



Name-services

REST API reference

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Name-services

Name-services overview

Overview

ONTAP uses name-services to obtain information about users and clients. This information is used to authenticate users accessing data on or administering the storage system, and to map user credentials in a mixed environment. If the user database is stored in NIS or LDAP servers, NIS and LDAP name services need to be configured in ONTAP. DNS is used for resolving the hostnames. ns-switch is used to configure the SVMs with sources to search for network information and the order in which to search them.

Manage group membership cache settings

Name-services cache group-membership settings endpoint overview

Overview

This API is used to retrieve and manage group-membership cache settings.

Examples

Retrieving group-membership cache settings

The following example shows how to use the cache group-membership settings GET endpoint to retrieve group-membership cache settings.

```
# The API:
GET /api/name-services/cache/group-membership/settings

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/cache/group-membership/settings?fields=*" -H "accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
        "name": "vs43"
      },
      "enabled": true,
      "ttl": "PT1H"
    },
    {
      "svm": {
        "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
        "name": "vs34"
      },
      "enabled": true,
      "ttl": "PT5M"
    }
  ],
  "num_records": 2
}
```

Retrieving group-membership cache settings for a given SVM

The following example shows how to use the cache group-membership settings GET endpoint to retrieve group-membership cache settings for a given SVM.

```
# The API:
GET /api/name-services/cache/group-membership/settings/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/cache/group-
membership/settings/dc458b2f-2035-11ec-bfe2-005056bb6bef" -H "accept:
application/hal+json"

# The response:
{
  "svm": {
    "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
    "name": "vs34"
  },
  "enabled": true,
  "ttl": "PT1H"
}
```

Updating a group-membership cache setting

The following example shows how to use the cache group-membership settings PATCH endpoint to update a group-membership setting.

```
# The API:
PATCH /api/name-services/cache/group-membership/settings/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/cache/unix-
user/settings/02c9e252-41be-11e9-81d5-00a0986138f9" -H "accept:
application/json" -H "Content-Type: application/json" -d "{ \"enabled\":
\"false\" }"
```

Retrieve group membership cache settings

GET /name-services/cache/group-membership/settings

Introduced In: 9.11

Retrieves group-membership cache settings.

Related ONTAP commands

- `vserver services name-service cache group-membership settings show`

Learn more

- [DOC /name-services/cache/group-membership/settings](#)

Parameters

Name	Type	In	Required	Description
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
ttl	string	query	False	Filter by ttl
enabled	boolean	query	False	Filter by enabled
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of records.
records	array[group_membership_settings]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "ttl": "PT2H30M"
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

group_membership_settings

Group membership cache setting.

Name	Type	Description
_links	_links	
enabled	boolean	Specifies whether or not the cache is enabled.
svm	svm	SVM, applies only to SVM-scoped objects.

Name	Type	Description
ttl	string	Specifies Time to Live for list of group members, in ISO 8601 format.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve a group membership cache setting for an SVM

GET /name-services/cache/group-membership/settings/{svm.uuid}

Introduced In: 9.11

Retrieves a group-membership cache setting for a given SVM.

Related ONTAP commands

- `vserver services name-service cache group-membership settings show`

Learn more

- [DOC /name-services/cache/group-membership/settings](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID.

Name	Type	In	Required	Description
svm.name	string	query	False	Filter by svm.name
ttl	string	query	False	Filter by ttl
enabled	boolean	query	False	Filter by enabled
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
<code>_links</code>	<code>_links</code>	
<code>enabled</code>	boolean	Specifies whether or not the cache is enabled.
<code>svm</code>	<code>svm</code>	SVM, applies only to SVM-scoped objects.
<code>ttl</code>	string	Specifies Time to Live for list of group members, in ISO 8601 format.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT2H30M"
}
```

Error

Status: Default, Error

Name	Type	Description
<code>error</code>	<code>returned_error</code>	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update a group membership cache setting

PATCH /name-services/cache/group-membership/settings/{svm.uuid}

Introduced In: 9.11

Updates a group-membership cache setting.

Important notes

- svm.uuid field cannot be empty.
- Returns success in case no values are provided for update.

Related ONTAP commands

- `vserver services name-service cache group-membership settings modify`

Learn more

- [DOC /name-services/cache/group-membership/settings](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID.

Request Body

Name	Type	Description
enabled	boolean	Specifies whether or not the cache is enabled.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live for list of group members, in ISO 8601 format.

Example request

```
{
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT2H30M"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
23724055	Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

group_membership_settings

Group membership cache setting.

Name	Type	Description
enabled	boolean	Specifies whether or not the cache is enabled.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live for list of group members, in ISO 8601 format.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage host cache settings

Name-services cache host settings endpoint overview

Overview

This API is used to retrieve and manage hosts cache settings.

Examples

Retrieving hosts cache settings

The following examples shows how to use the cache host settings GET endpoint to retrieve host cache settings.

```

# The API:
GET /api/name-services/cache/host/settings

# The call:
curl -X GET "https://<mgmt-ip>/api/name-
services/cache/host/settings?fields=*" -H "accept: application/hal+json"

# The response:
{
  "records": [
    {
      "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
      "svm": {
        "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
        "name": "vs43"
      },
      "enabled": true,
      "negative_cache_enabled": true,
      "ttl": "P1D",
      "negative_ttl": "PT1M",
      "dns_ttl_enabled": true
    },
    {
      "uuid": "951e8676-2035-11ec-bfe2-005056bb6bef",
      "enabled": true,
      "negative_cache_enabled": true,
      "ttl": "P1D",
      "negative_ttl": "PT1M",
      "dns_ttl_enabled": true
    },
    {
      "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
      "svm": {
        "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
        "name": "vs34"
      },
      "enabled": true,
      "negative_cache_enabled": true,
      "ttl": "P1D",
      "negative_ttl": "PT1M",
      "dns_ttl_enabled": true
    }
  ],
  "num_records": 3
}

```

Retrieving host cache settings for a given SVM

The following examples shows how to use the cache hosts settings GET endpoint to retrieve hosts cache settings for a specific SVM.

```
# The API:
GET /api/name-services/cache/host/settings/{uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-
services/cache/host/settings/dc458b2f-2035-11ec-bfe2-005056bb6bef" -H
"accept: application/hal+json"

# The response:
{
  "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
  "svm": {
    "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
    "name": "vs34"
  },
  "enabled": false,
  "negative_cache_enabled": true,
  "ttl": "P1D",
  "negative_ttl": "PT1M",
  "dns_ttl_enabled": true
}
```

Updating a hosts cache setting

The following example shows how to use the cache host settings PATCH endpoint to update a host cache setting.

```
# The API:
PATCH /api/name-services/cache/host/settings/{uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-
services/cache/host/settings/02c9e252-41be-11e9-81d5-00a0986138f9" -H
"accept: application/json" -H "Content-Type: application/json" -d "{
  \"ttl\": \"PT2H\", \"negative_ttl\": \"PT2M\" }"
```

Retrieve host cache settings

GET /name-services/cache/host/settings

Introduced In: 9.11

Retrieves host cache settings.

Related ONTAP commands

- `vserver services name-service cache hosts settings show`

Learn more

- [DOC /name-services/cache/host/settings](#)

Parameters

Name	Type	In	Required	Description
ttl	string	query	False	Filter by ttl
negative_cache_enabled	boolean	query	False	Filter by negative_cache_enabled
negative_ttl	string	query	False	Filter by negative_ttl
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
dns_ttl_enabled	boolean	query	False	Filter by dns_ttl_enabled
uuid	string	query	False	Filter by uuid • Introduced in: 9.14
enabled	boolean	query	False	Filter by enabled
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of records.
records	array[hosts_settings]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "dns_ttl_enabled": 1,
      "negative_ttl": "PT5M",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "ttl": "PT24H",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

hosts_settings

Hosts cache setting.

Name	Type	Description
_links	_links	
dns_ttl_enabled	boolean	Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used.
enabled	boolean	Indicates whether or not the cache is enabled.

Name	Type	Description
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.
uuid	string	UUID for the host record.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve a host cache setting for an SVM

GET /name-services/cache/host/settings/{uuid}

Introduced In: 9.14

Retrieves a host cache setting for a given SVM.

Related ONTAP commands

- `vserver services name-service cache hosts settings show`

Learn more

- [DOC /name-services/cache/host/settings](#)

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	UUID for the host record.
ttl	string	query	False	Filter by ttl
negative_cache_enabled	boolean	query	False	Filter by negative_cache_enabled
negative_ttl	string	query	False	Filter by negative_ttl
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
dns_ttl_enabled	boolean	query	False	Filter by dns_ttl_enabled
enabled	boolean	query	False	Filter by enabled
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
dns_ttl_enabled	boolean	Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used.
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
svm	svm	SVM, applies only to SVM-scoped objects.

Name	Type	Description
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.
uuid	string	UUID for the host record.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "dns_ttl_enabled": 1,
  "negative_ttl": "PT5M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT24H",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update a host cache setting

PATCH /name-services/cache/host/settings/{uuid}

Introduced In: 9.14

Updates a host cache setting.

Important notes

- UUID field cannot be empty.
- Returns success in case no values are provided for update.

Related ONTAP commands

- `vserver services name-service cache hosts settings modify`

Learn more

- [DOC /name-services/cache/host/settings](#)

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	UUID for the host record.

Request Body

Name	Type	Description
dns_ttl_enabled	boolean	Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used.
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

Name	Type	Description
uuid	string	UUID for the host record.

Example request

```
{
  "dns_ttl_enabled": 1,
  "negative_ttl": "PT5M",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT24H",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
23724055	Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

hosts_settings

Hosts cache setting.

Name	Type	Description
dns_ttl_enabled	boolean	Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used.
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.
uuid	string	UUID for the host record.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage netgroup cache settings

Name-services cache netgroup settings endpoint overview

Overview

This API is used to retrieve and manage netgroups cache settings.

Examples

Retrieving a netgroup cache setting

The following example shows how to use the cache netgroup settings GET endpoint to retrieve netgroup cache settings.

```
# The API:
GET /api/name-services/cache/netgroup/settings

# The call:
curl -X GET "https://<mgmt-ip>/api/name-
services/cache/netgroup/settings?fields=*" -H "accept:
application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
        "name": "vs43"
      },
      "enabled": true,
      "negative_cache_enabled_byhost": true,
      "ttl_byhost": "P1D",
      "negative_ttl_byhost": "PT30M",
      "ttl_for_members": "PT30M"
    },
    {
      "svm": {
        "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
        "name": "vs34"
      },
      "enabled": true,
      "negative_cache_enabled_byhost": true,
      "ttl_byhost": "PT2H",
      "negative_ttl_byhost": "PT30M",
      "ttl_for_members": "PT30M"
    }
  ],
  "num_records": 2
}
```

Retrieving a netgroup cache setting for a given SVM

The following example shows how to use the cache netgroup settings GET endpoint to retrieve netgroup cache settings for a given SVM.

```
# The API:
GET /api/name-services/cache/netgroup/settings/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-
services/cache/netgroup/settings/dc458b2f-2035-11ec-bfe2-005056bb6bef" -H
"accept: application/hal+json"

# The response:
{
  "svm": {
    "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
    "name": "vs34"
  },
  "enabled": true,
  "negative_cache_enabled_byhost": true,
  "ttl_byhost": "P1D",
  "negative_ttl_byhost": "PT30M",
  "ttl_for_members": "PT30M"
}
```

Updating a netgroup cache setting

The following example shows how to use the cache netgroup settings PATCH endpoint to update netgroup cache settings.

```
# The API:
PATCH /api/name-services/cache/netgroup/settings/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-
services/cache/netgroup/settings/02c9e252-41be-11e9-81d5-00a0986138f9" -H
"accept: application/json" -H "Content-Type: application/json" -d "{
  \"ttl_byhost\": \"PT2H\", \"negative_ttl_byhost\": \"PT2M\" }"
```

Retrieve netgroup cache settings

GET /name-services/cache/netgroup/settings

Introduced In: 9.11

Retrieves netgroups cache settings.

Related ONTAP commands

- `vserver services name-service cache netgroups settings show`

Learn more

- [DOC /name-services/cache/netgroup/settings](#)

Parameters

Name	Type	In	Required	Description
ttn_for_members	string	query	False	Filter by ttn_for_members
negative_ttn_byhost	string	query	False	Filter by negative_ttn_byhost
enabled	boolean	query	False	Filter by enabled
negative_cache_enabled_byhost	boolean	query	False	Filter by negative_cache_enabled_byhost
ttn_byhost	string	query	False	Filter by ttn_byhost
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of records.
records	array[netgroups_settings]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "negative_ttl_byhost": "PT2M5S",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "ttl_byhost": "PT24H",
      "ttl_for_members": "PT2M"
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

netgroups_settings

Netgroups cache setting.

Name	Type	Description
_links	_links	
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled_byhost	boolean	Indicates whether or not the negative cache is enabled.

Name	Type	Description
negative_ttl_byhost	string	Specifies negative Time to Live by host, in ISO 8601 format.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl_byhost	string	Specifies Time to Live by host, in ISO 8601 format.
ttl_for_members	string	Specifies Time to Live for netgroup members, in ISO 8601 format.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve a netgroup cache setting for an SVM

GET /name-services/cache/netgroup/settings/{svm.uuid}

Introduced In: 9.11

Retrieves a netgroup cache setting for a given SVM.

Related ONTAP commands

- `vserver services name-service cache netgroups settings show`

Learn more

- [DOC /name-services/cache/netgroup/settings](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID.
ttl_for_members	string	query	False	Filter by ttl_for_members
negative_ttl_byhost	string	query	False	Filter by negative_ttl_byhost
enabled	boolean	query	False	Filter by enabled
negative_cache_enabled_byhost	boolean	query	False	Filter by negative_cache_enabled_byhost
ttl_byhost	string	query	False	Filter by ttl_byhost
svm.name	string	query	False	Filter by svm.name
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled_byhost	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl_byhost	string	Specifies negative Time to Live by host, in ISO 8601 format.
svm	svm	SVM, applies only to SVM-scoped objects.
ttr_byhost	string	Specifies Time to Live by host, in ISO 8601 format.

Name	Type	Description
ttl_for_members	string	Specifies Time to Live for netgroup members, in ISO 8601 format.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "negative_ttl_byhost": "PT2M5S",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl_byhost": "PT24H",
  "ttl_for_members": "PT2M"
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update a netgroup cache setting

PATCH /name-services/cache/netgroup/settings/{svm.uuid}

Introduced In: 9.11

Updates a netgroup cache setting.

Important notes

- svm.uuid field cannot be empty.
- Returns success in case no values are provided for update.

Related ONTAP commands

- `vserver services name-service cache netgroups settings modify`

Learn more

- [DOC /name-services/cache/netgroup/settings](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID.

Request Body

Name	Type	Description
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled_byhost	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl_byhost	string	Specifies negative Time to Live by host, in ISO 8601 format.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl_byhost	string	Specifies Time to Live by host, in ISO 8601 format.
ttl_for_members	string	Specifies Time to Live for netgroup members, in ISO 8601 format.

Example request

```
{
  "negative_ttl_byhost": "PT2M5S",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl_byhost": "PT24H",
  "ttl_for_members": "PT2M"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
23724055	Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

netgroups_settings

Netgroups cache setting.

Name	Type	Description
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled_byhost	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl_byhost	string	Specifies negative Time to Live by host, in ISO 8601 format.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl_byhost	string	Specifies Time to Live by host, in ISO 8601 format.
ttl_for_members	string	Specifies Time to Live for netgroup members, in ISO 8601 format.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage global cache settings

Name-services cache setting endpoint overview

Overview

This API is used to retrieve and manage global nameservice cache settings.

Examples

Retrieving a global nameservice cache setting

The following example shows how to use the cache setting GET endpoint to retrieve the global nameservice cache setting.

```
# The API:
GET /api/name-services/cache/setting

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/cache/setting" -H
"accept: application/hal+json"

# The response:
{
  "eviction_time_interval": "P2D",
  "remote_fetch_enabled": true
}
```

Updating a global nameservice cache setting

The following example shows how to use the cache setting PATCH endpoint to update the global nameservice cache setting.

```
# The API:
PATCH /api/name-services/cache/setting

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/cache/setting" -H
"accept: application/json" -H "Content-Type: application/json" -d "{
  \"eviction_time_interval\": \"PT2H\" }"
```

Retrieve a global name service cache setting

```
GET /name-services/cache/setting
```

Introduced In: 9.11

Retrieves a global nameservice cache setting.

Related ONTAP commands

- `vserver services name-service cache settings show`

Learn more

- [DOC /name-services/cache/setting](#)

Parameters

Name	Type	In	Required	Description
remote_fetch_enabled	boolean	query	False	Filter by remote_fetch_enabled
eviction_time_interval	string	query	False	Filter by eviction_time_interval
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
eviction_time_interval	string	Specifies the time interval, in ISO 8601 format after which a periodic cache eviction happens. Default is 4 hours.
remote_fetch_enabled	boolean	Indicates whether or not a node is allowed to fetch the data from a remote node.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "eviction_time_interval": "PT2H"
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update a global name service cache setting

PATCH /name-services/cache/setting

Introduced In: 9.11

Updates a global nameservice cache setting.

Important notes

- Both the cache eviction time and remote fetch option can be modified.

Related ONTAP commands

- `vserver services name-service cache settings modify`

Learn more

- [DOC /name-services/cache/setting](#)

Request Body

Name	Type	Description
eviction_time_interval	string	Specifies the time interval, in ISO 8601 format after which a periodic cache eviction happens. Default is 4 hours.
remote_fetch_enabled	boolean	Indicates whether or not a node is allowed to fetch the data from a remote node.

Example request

```
{
  "eviction_time_interval": "PT2H"
}
```

Response

Status: 200, Ok

Error

Status: Default, Error

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

global_cache_setting

Name	Type	Description
eviction_time_interval	string	Specifies the time interval, in ISO 8601 format after which a periodic cache eviction happens. Default is 4 hours.
remote_fetch_enabled	boolean	Indicates whether or not a node is allowed to fetch the data from a remote node.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage UNIX group cache settings

Name-services cache unix-group settings endpoint overview

Overview

This API is used to retrieve and manage unix-group settings.

Examples

Retrieving unix-group settings

The following example shows how to use the cache unix-group settings GET endpoint to retrieve unix-group cache settings.

```
# The API:
GET /api/name-services/cache/unix-group/settings

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/cache/unix-group/settings?fields=*" -H "accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
        "name": "vs43"
      },
      "enabled": true,
      "negative_cache_enabled": true,
      "ttl": "P1D",
      "negative_ttl": "PT1M",
      "propagation_enabled": true
    },
    {
      "svm": {
        "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
        "name": "vs34"
      },
      "enabled": true,
      "negative_cache_enabled": true,
      "ttl": "P1D",
      "negative_ttl": "PT1M",
      "propagation_enabled": true
    }
  ],
  "num_records": 2
}
```

Retrieving a unix-group setting for a given SVM

The following example shows how to use the cache unix-group settings GET endpoint to retrieve unix-group cache settings for a given SVM.


```
# The API:
GET /api/name-services/cache/unix-group/settings/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/cache/unix-group/settings/dc458b2f-2035-11ec-bfe2-005056bb6bef" -H "accept: application/hal+json"

# The response:
{
  "svm": {
    "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
    "name": "vs34"
  },
  "enabled": true,
  "negative_cache_enabled": true,
  "ttl": "P1D",
  "negative_ttl": "PT1M",
  "propagation_enabled": true
}
```

Updating a unix-group setting

The following example shows how to use the cache unix-group settings PATCH endpoint to update unix-group cache settings for an SVM.

```
# The API:
PATCH /api/name-services/cache/unix-group/settings/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/cache/unix-group/settings/02c9e252-41be-11e9-81d5-00a0986138f9" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"ttl\": \"PT2H\", \"negative_ttl\": \"PT2M\" }"
```

Retrieve UNIX group cache settings

GET /name-services/cache/unix-group/settings

Introduced In: 9.11

Retrieves unix-group cache settings.

Related ONTAP commands

- `vserver services name-service cache unix-group settings show`

Learn more

- [DOC /name-services/cache/unix-group/settings](#)

Parameters

Name	Type	In	Required	Description
ttl	string	query	False	Filter by ttl
enabled	boolean	query	False	Filter by enabled
negative_cache_enabled	boolean	query	False	Filter by negative_cache_enabled
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
negative_ttl	string	query	False	Filter by negative_ttl
propagation_enabled	boolean	query	False	Filter by propagation_enabled
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of records.
records	array[unix_group_settings]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "negative_ttl": "PT5M",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "ttl": "PT24H"
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

unix_group_settings

UNIX groups cache setting.

Name	Type	Description
_links	_links	
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.

Name	Type	Description
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
propagation_enabled	boolean	Specifies whether the propagation setting is enabled or not.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve a UNIX group cache setting for an SVM

GET /name-services/cache/unix-group/settings/{svm.uuid}

Introduced In: 9.11

Retrieves a unix-group cache setting for a given SVM.

Related ONTAP commands

- `vserver services name-service cache unix-group settings show`

Learn more

- [DOC /name-services/cache/unix-group/settings](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID.
ttl	string	query	False	Filter by ttl
enabled	boolean	query	False	Filter by enabled
negative_cache_enabled	boolean	query	False	Filter by negative_cache_enabled
svm.name	string	query	False	Filter by svm.name
negative_ttl	string	query	False	Filter by negative_ttl
propagation_enabled	boolean	query	False	Filter by propagation_enabled
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
propagation_enabled	boolean	Specifies whether the propagation setting is enabled or not.
svm	svm	SVM, applies only to SVM-scoped objects.

Name	Type	Description
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "negative_ttl": "PT5M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT24H"
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update UNIX group cache settings

PATCH /name-services/cache/unix-group/settings/{svm.uuid}

Introduced In: 9.11

Updates unix-group cache settings.

Important notes

- svm.uuid field cannot be empty.
- Returns success in case no values are provided for update.

Related ONTAP commands

- `vserver services name-service cache unix-group settings modify`

Learn more

- [DOC /name-services/cache/unix-group/settings](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID.

Request Body

Name	Type	Description
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
propagation_enabled	boolean	Specifies whether the propagation setting is enabled or not.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

Example request

```
{
  "negative_ttl": "PT5M",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT24H"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
23724055	Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

unix_group_settings

UNIX groups cache setting.

Name	Type	Description
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
propagation_enabled	boolean	Specifies whether the propagation setting is enabled or not.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage UNIX user cache settings

Name-services cache unix-user settings endpoint overview

Overview

This API is used to retrieve and manage unix-user settings.

Examples

Retrieving unix-user cache settings

The following example shows how to use the cache unix-user settings GET endpoint to retrieve unix-user cache settings.


```
# The API:
GET /api/name-services/cache/unix-user/settings

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/cache/unix-user/settings?fields=*" -H "accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
        "name": "vs43"
      },
      "enabled": true,
      "negative_cache_enabled": true,
      "ttl": "P1D",
      "negative_ttl": "PT1M",
      "propagation_enabled": true
    },
    {
      "svm": {
        "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
        "name": "vs34"
      },
      "enabled": true,
      "negative_cache_enabled": true,
      "ttl": "P1D",
      "negative_ttl": "PT1M",
      "propagation_enabled": true
    }
  ],
  "num_records": 2
}
```

Retrieving a unix-user cache setting for a given SVM

The following example shows how to use the cache unix-user settings GET endpoint to retrieve unix-user cache settings for a given SVM.

```
# The API:
GET /api/name-services/cache/unix-user/settings/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/cache/unix-
user/settings/dc458b2f-2035-11ec-bfe2-005056bb6bef" -H "accept:
application/hal+json"

# The response:
{
  "svm": {
    "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
    "name": "vs34"
  },
  "enabled": true,
  "negative_cache_enabled": true,
  "ttl": "P1D",
  "negative_ttl": "PT1M",
  "propagation_enabled": true
}
```

Updating a unix-user setting

The following example shows how to use the cache unix-user settings PATCH endpoint to update unix-user cache settings.

```
# The API:
PATCH /api/name-services/cache/unix-user/settings/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/cache/unix-
user/settings/02c9e252-41be-11e9-81d5-00a0986138f9" -H "accept:
application/json" -H "Content-Type: application/json" -d "{ \"ttl\":
\"PT2H\", \"negative_ttl\": \"PT2M\" }"
```

Retrieve UNIX user cache settings

GET /name-services/cache/unix-user/settings

Introduced In: 9.11

Retrieves unix-user cache settings.

Related ONTAP commands

- `vserver services name-service cache unix-user settings show`

Learn more

- [DOC /name-services/cache/unix-user/settings](#)

Parameters

Name	Type	In	Required	Description
enabled	boolean	query	False	Filter by enabled
ttl	string	query	False	Filter by ttl
negative_ttl	string	query	False	Filter by negative_ttl
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
negative_cache_enabled	boolean	query	False	Filter by negative_cache_enabled
propagation_enabled	boolean	query	False	Filter by propagation_enabled
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of records.
records	array[unix_user_settings]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "negative_ttl": "PT5M",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "ttl": "PT2H"
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

unix_user_settings

UNIX users cache setting.

Name	Type	Description
_links	_links	
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.

Name	Type	Description
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
propagation_enabled	boolean	Specifies whether the propagation setting is enabled or not.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve UNIX user cache settings for an SVM

GET /name-services/cache/unix-user/settings/{svm.uuid}

Introduced In: 9.11

Retrieves unix-user cache settings for a given SVM.

Related ONTAP commands

- `vserver services name-service cache unix-user settings show`

Learn more

- [DOC /name-services/cache/unix-user/settings](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID.
enabled	boolean	query	False	Filter by enabled
ttl	string	query	False	Filter by ttl
negative_ttl	string	query	False	Filter by negative_ttl
svm.name	string	query	False	Filter by svm.name
negative_cache_enabled	boolean	query	False	Filter by negative_cache_enabled
propagation_enabled	boolean	query	False	Filter by propagation_enabled
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
propagation_enabled	boolean	Specifies whether the propagation setting is enabled or not.
svm	svm	SVM, applies only to SVM-scoped objects.

Name	Type	Description
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "negative_ttl": "PT5M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT2H"
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update a UNIX user cache setting

PATCH /name-services/cache/unix-user/settings/{svm.uuid}

Introduced In: 9.11

Updates a unix-user cache setting.

Important notes

- svm.uuid field cannot be empty.
- Returns success in case no values are provided for update.

Related ONTAP commands

- `vserver services name-service cache unix-user settings modify`

Learn more

- [DOC /name-services/cache/unix-user/settings](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID.

Request Body

Name	Type	Description
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
propagation_enabled	boolean	Specifies whether the propagation setting is enabled or not.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

Example request

```
{
  "negative_ttl": "PT5M",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT2H"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
23724055	Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

unix_user_settings

UNIX users cache setting.

Name	Type	Description
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
propagation_enabled	boolean	Specifies whether the propagation setting is enabled or not.
svm	svm	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage DNS configurations

Name-services dns endpoint overview

Overview

Displays DNS information and controls the DNS subsystem. DNS domain name and DNS servers are required parameters.

Retrieving DNS information

The DNS GET endpoint retrieves all of the DNS configurations for all SVMs. DNS configuration for the cluster is retrieved via [/api/cluster](#) .

Examples

Retrieving all of the fields for all of the DNS configurations

```
# The API:
/api/name-services/dns

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/dns?fields=*" -H "accept: application/hal+json"

# The response:
{
```

```

"records": [
  {
    "svm": {
      "uuid": "27eff5d8-22b2-11eb-8038-0050568ed32c",
      "name": "clust-1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
        }
      }
    },
    "domains": [
      "domain.example.com"
    ],
    "servers": [
      "44.44.44.44"
    ],
    "timeout": 2,
    "attempts": 1,
    "scope": "cluster",
    "_links": {
      "self": {
        "href": "/api/name-services/dns/27eff5d8-22b2-11eb-8038-0050568ed32c"
      }
    }
  },
  {
    "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
    "svm": {
      "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
      "name": "vs1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
        }
      }
    },
    "domains": [
      "domainA.example.com"
    ],
    "servers": [
      "10.10.10.10"
    ],
    "timeout": 2,
    "attempts": 1,

```

```

    "dynamic_dns": {
      "enabled": false,
      "use_secure": false,
      "time_to_live": "PT1H"
    },
    "scope": "svm",
    "_links": {
      "self": {
        "href": "/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1"
      }
    }
  },
  {
    "uuid": "19076d35-6e27-11e8-b9b8-005056b41bd1",
    "svm": {
      "uuid": "19076d35-6e27-11e8-b9b8-005056b41bd1",
      "name": "vs2",
      "_links": {
        "self": {
          "href": "/api/svm/svms/19076d35-6e27-11e8-b9b8-005056b41bd1"
        }
      }
    }
  },
  "domains": [
    "sample.example.com"
  ],
  "servers": [
    "11.11.11.11",
    "22.22.22.22",
    "33.33.33.33"
  ],
  "timeout": 2,
  "attempts": 2,
  "dynamic_dns": {
    "enabled": true,
    "use_secure": false,
    "time_to_live": "PT3H"
  },
  "scope": "svm",
  "_links": {
    "self": {
      "href": "/api/name-services/dns/19076d35-6e27-11e8-b9b8-005056b41bd1"
    }
  }
}

```

```
    }  
  ],  
  "num_records": 3,  
  "_links": {  
    "self": {  
      "href": "/api/name-services/dns?fields=*"  
    }  
  }  
}
```

Retrieving all DNS configurations whose domain name starts with *dom**.

```

# The API:
/api/name-services/dns

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/dns?domains=dom*" -H
"accept: application/hal+json"

# The response:
{
  "records": [
    {
      "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
      "svm": {
        "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
          }
        }
      },
      "domains": [
        "domainA.example.com"
      ],
      "_links": {
        "self": {
          "href": "/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1"
        }
      }
    },
    {
      "num_records": 1,
      "_links": {
        "self": {
          "href": "/api/name-services/dns?domains=dom*"
        }
      }
    }
  ]
}

```

Retrieving the DNS configuration for a specific SVM

```

# The API:
/api/name-services/dns/{uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/hal+json"

# The response:
{
  "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
  "svm": {
    "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
    "name": "vs1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
      }
    }
  },
  "domains": [
    "domainA.example.com"
  ],
  "servers": [
    "10.10.10.10"
  ],
  "timeout": 2,
  "attempts": 1,
  "tld_query_enabled": true,
  "source_address_match": true,
  "packet_query_match": true,
  "dynamic_dns": {
    "enabled": false,
    "use_secure": false,
    "time_to_live": "P1D"
  },
  "scope": "svm",
  "_links": {
    "self": {
      "href": "/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1"
    }
  }
}

```

Retrieving the advanced fields "DNS status", "tld_query_enable", "source_address_match", and "packet_query_match" using wildcards **

```
# The API:
/api/name-services/dns/{uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1?fileds=**" -H "accept: application/hal+json"

# The response:
{
  "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
  "svm": {
    "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
    "name": "vs1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
      }
    }
  },
  "domains": [
    "domainA.example.com"
  ],
  "servers": [
    "10.10.10.10"
  ],
  "timeout": 2,
  "attempts": 1,
  "tld_query_enabled": true,
  "source_address_match": true,
  "packet_query_match": true,
  "dynamic_dns": {
    "enabled": false,
    "use_secure": false,
    "time_to_live": "P1D"
  },
  "scope": "svm",
  "status": [
    {
      "name_server": "10.10.10.10",
      "state": "up",
      "message": "Response time (msec): ",
      "code": 0
    }
  ]
}
```

```

],
"_links": {
  "self": {
    "href": "/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1"
  }
}
}
}

```

Retrieving the "service_ips" for a specific DNS service name

```

# The API:
/api/name-services/dns/{uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1?service.name=_kpasswd._udp.domainA.example.com&fields=*" -H "accept: application/hal+json"

# The response:
{
  "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
  "domains": [
    "domainA.example.com"
  ],
  "servers": [
    "10.10.10.10"
  ],
  "timeout": 2,
  "attempts": 1,
  "tld_query_enabled": true,
  "source_address_match": true,
  "packet_query_match": true,
  "dynamic_dns": {
    "enabled": false,
    "use_secure": false,
    "time_to_live": "P1D"
  },
  "scope": "svm",
  "status": [
    {
      "name_server": "10.10.10.10",
      "state": "up",
      "message": "Response time (msec): 218",
      "code": 0
    }
  ]
}

```



```

    }
  ],
  "svm": {
    "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
    "name": "vs0",
    "_links": {
      "self": {
        "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
      }
    }
  },
  "service_ips": [
    "10.10.10.10",
    "2001:db08:a0b:12f0::1"
  ],
  "_links": {
    "self": {
      "href": "/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1?fields=**"
    }
  }
}

```

Retrieving the "service_ips" for a specific DNS service name with a particular address type (can be ipv4, ipv6 or all)

```

# The API:
/api/name-services/dns/{uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1?service.name=_kpasswd._udp.domainA.example.com&service.address_type=ipv4&fields=**" -H "accept: application/hal+json"

# The response:
{
  "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
  "domains": [
    "domainA.example.com"
  ],
  "servers": [
    "10.10.10.10"
  ],
  "timeout": 2,
  "attempts": 1,

```

```

"tld_query_enabled": true,
"source_address_match": true,
"packet_query_match": true,
"dynamic_dns": {
  "enabled": false,
  "use_secure": false,
  "time_to_live": "P1D"
},
"scope": "svm",
"status": [
  {
    "name_server": "10.10.10.10",
    "state": "up",
    "message": "Response time (msec): 218",
    "code": 0
  }
],
"svm": {
  "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
  "name": "vs0",
  "_links": {
    "self": {
      "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
    }
  }
},
"service_ips": [
  "10.10.10.10"
],
"_links": {
  "self": {
    "href": "/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1?fields=*"
  }
}
}

```

Creating a DNS configuration

The DNS POST endpoint creates a DNS configuration for the specified SVM.

Examples

Specifying only the required fields

```
# The API:
/api/name-services/dns

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/dns" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d "{ \"svm\": {
\"uuid\": \"179d3c85-7053-11e8-b9b8-005056b41bd1\" }, \"domains\": [
\"domainA.example.com\" ], \"servers\": [ \"10.10.10.10\" ]}"
```

Specifying the optional fields as well

```
# The API:
/api/name-services/dns

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/dns" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d "{ \"svm\": {
\"uuid\": \"179d3c85-7053-11e8-b9b8-005056b41bd1\" }, \"domains\": [
\"domainA.example.com\" ], \"servers\": [ \"10.10.10.10\" ],
\"timeout\":2, \"attempts\":3}"
```

Specifying the scope of the SVM

```
# The API:
/api/name-services/dns

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/dns" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d "{ \"svm\": {
\"uuid\": \"179d3c85-7053-11e8-b9b8-005056b41bd1\" }, \"domains\": [
\"domainA.example.com\" ], \"servers\": [ \"10.10.10.10\" ],
\"timeout\":2, \"attempts\":3, \"scope\":\"svm\"}"
```

Updating a DNS configuration

The DNS PATCH endpoint updates the DNS configuration for the specified SVM.

Examples

Updating both the DNS domains and servers

```
# The API:
/api/name-services/dns/{uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/hal+json" -H "Content-Type: application/json" -d "{ \"domains\": [ \"domainA.example.com\", \"domainB.example.com\" ], \"servers\": [ \"10.10.10.10\", \"10.10.10.11\" ] }"
```

Updating the DNS servers only

```
# The API:
/api/name-services/dns/{uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/hal+json" -H "Content-Type: application/json" -d "{ \"servers\": [ \"10.10.10.10\" ] }"
```

Updating the optional fields "timeout", "attempts", and "source_address_match"

```
# The API:
/api/name-services/dns/{uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/hal+json" -H "Content-Type: application/json" -d "{ \"timeout\":2, \"attempts\":3, \"source_address_match\":true}"
```

Updating the Dynamic DNS related fields

```
# The API:
/api/name-services/dns/{uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/hal+json" -H "Content-Type: application/json" -d "{ \"timeout\":2, \"attempts\":3, \"dynamic_dns.enabled\":\"true\", \"dynamic_dns.time_to_live\":\"20h\"}"
```

Deleting a DNS configuration

The DNS DELETE endpoint deletes the DNS configuration for the specified SVM.

Example

The following example shows a DELETE operation.

```
# The API:
/api/name-services/dns/{uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/hal+json"
```

Retrieve DNS configurations for all SVMs

GET /name-services/dns

Introduced In: 9.6

Retrieves the DNS configurations of all SVMs. Specify 'scope' as 'svm' to retrieve the DNS configuration of all the data SVMs. Specify 'scope' as 'cluster' to retrieve the DNS configuration of the cluster.

Advanced properties

- 'tld_query_enabled'
- 'source_address_match'
- 'packet_query_match'
- 'status' property retrieves the status of each name server of the DNS configuration for an SVM.
- 'service_ips' property is displayed only when both service.name and SVM are set.

Related ONTAP commands

- `vserver services name-service dns show`
- `vserver services name-service dns check`
- `vserver services name-service dns dynamic-update show`
- `vserver services access-check dns srv-lookup`

Learn more

- [DOC /name-services/dns](#)

Parameters

Name	Type	In	Required	Description
scope	string	query	False	Filter by scope • Introduced in: 9.9
timeout	integer	query	False	Filter by timeout • Introduced in: 9.9 • Max value: 5 • Min value: 1
attempts	integer	query	False	Filter by attempts • Introduced in: 9.9 • Max value: 4 • Min value: 1
service_ips	string	query	False	Filter by service_ips • Introduced in: 9.14
uuid	string	query	False	Filter by uuid • Introduced in: 9.13
status.state	string	query	False	Filter by status.state • Introduced in: 9.9
status.name_server	string	query	False	Filter by status.name_server • Introduced in: 9.9
status.code	integer	query	False	Filter by status.code • Introduced in: 9.9

Name	Type	In	Required	Description
status.message	string	query	False	Filter by status.message • Introduced in: 9.9
dynamic_dns.enabled	boolean	query	False	Filter by dynamic_dns.enabled • Introduced in: 9.9
dynamic_dns.fqdn	string	query	False	Filter by dynamic_dns.fqdn • Introduced in: 9.9
dynamic_dns.use_secure	boolean	query	False	Filter by dynamic_dns.use_secure • Introduced in: 9.9
dynamic_dns.time_to_live	string	query	False	Filter by dynamic_dns.time_to_live • Introduced in: 9.9
servers	string	query	False	Filter by servers
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
tld_query_enabled	boolean	query	False	Filter by tld_query_enabled • Introduced in: 9.9

Name	Type	In	Required	Description
source_address_match	boolean	query	False	Filter by source_address_match • Introduced in: 9.9
packet_query_match	boolean	query	False	Filter by packet_query_match • Introduced in: 9.9
domains	string	query	False	Filter by domains • maxLength: 255 • minLength: 1
service.name	string	query	False	The string required to look up the SRV record on the DNS server. • Introduced in: 9.14
service.address_type	string	query	False	The type of IP address to be looked up on the DNS server. • Introduced in: 9.14 • Default value: 1
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Max value: 120 • Min value: 0 • Default value: 1
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of DNS domain records.
records	array[dns]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "attempts": 1,
      "domains": [
        "example.com",
        "example2.example3.com"
      ],
      "dynamic_dns": {
        "fqdn": "example.com",
        "time_to_live": "P2D"
      },
      "scope": "string",
      "servers": [
        "10.224.65.20",
        "2001:db08:a0b:12f0::1"
      ],
      "service_ips": [
        "10.224.65.20",
        "2001:db08:a0b:12f0::1"
      ],
      "skip_config_validation": true,
      "status": [
        {
          "code": 6684732,
          "message": "string",
          "name_server": "10.10.10.10",
          "state": "up"
        }
      ]
    }
  ],
}
```

```

    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "timeout": 2,
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
]
}

```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```

{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}

```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

dynamic_dns

Name	Type	Description
enabled	boolean	Enable or disable Dynamic DNS (DDNS) updates for the specified SVM.
fqdn	string	Fully Qualified Domain Name (FQDN) to be used for dynamic DNS updates.
skip_fqdn_validation	boolean	Enable or disable FQDN validation.
time_to_live	string	Time to live value for the dynamic DNS updates, in an ISO-8601 duration formatted string. Maximum Time To Live is 720 hours(P30D in ISO-8601 format) and the default is 24 hours(P1D in ISO-8601 format).
use_secure	boolean	Enable or disable secure dynamic DNS updates for the specified SVM.

status

Status of each of the DNS name server configured for the specified SVM.

Name	Type	Description
code	integer	Code corresponding to the status message. Code is 0 when the state is 'up'.
message	string	Detailed description of the validation state if the state is 'down' or the response time of the DNS server if the state is 'up'.
name_server	string	The IP address of the DNS server. The address can be either an IPv4 or an IPv6 address.
state	string	The validation status of the DNS server.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

dns

Name	Type	Description
_links	_links	
attempts	integer	Number of attempts allowed when querying the DNS name servers.

Name	Type	Description
domains	array[string]	A list of DNS domains. Domain names have the following requirements: • The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_". • The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9. • The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9. • The top level domain must contain only the following characters: A through Z, a through z. • The system reserves the following names: "all", "local", and "localhost".
dynamic_dns	dynamic_dns	
packet_query_match	boolean	Indicates whether or not the query section of the reply packet is equal to that of the query packet.
scope	string	Set to "svm" for DNS owned by an SVM, otherwise set to "cluster".
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
service_ips	array[string]	List of IP addresses for a DNS service. Addresses can be IPv4, IPv6 or both.

Name	Type	Description
source_address_match	boolean	Indicates whether or not the DNS responses are from a different IP address to the IP address the request was sent to.
status	array[status]	Status of all the DNS name servers configured for the specified SVM.
svm	svm	SVM, applies only to SVM-scoped objects.
timeout	integer	Timeout values for queries to the name servers, in seconds.
tld_query_enabled	boolean	Enable or disable top-level domain (TLD) queries.
uuid	string	UUID of the DNS object.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Create DNS domain and server configurations

POST /name-services/dns

Introduced In: 9.6

Creates DNS domain and server configurations for an SVM.

Important notes

- Each SVM can have only one DNS configuration.
- The domain name and the servers fields cannot be empty.
- IPv6 must be enabled if IPv6 family addresses are specified in the `servers` field.
- Configuring more than one DNS server is recommended to avoid a single point of failure.
- The DNS server specified using the `servers` field is validated during this operation.

The validation fails in the following scenarios:

1. The server is not a DNS server.
2. The server does not exist.
3. The server is unreachable.
 - The DNS server validation can be skipped by setting the property "skip_config_validation" to "true".
 - Scope of the SVM can be specified using the "scope" parameter. "svm" scope refers to data SVMs and "cluster" scope refers to clusters.

The following parameters are optional:

- timeout
- attempts
- source_address_match
- packet_query_match
- tld_query_enabled
- skip_config_validation
- scope

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
attempts	integer	Number of attempts allowed when querying the DNS name servers.
domains	array[string]	A list of DNS domains. Domain names have the following requirements: • The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_". • The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9. • The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9. • The top level domain must contain only the following characters: A through Z, a through z. • The system reserves the following names: "all", "local", and "localhost".
packet_query_match	boolean	Indicates whether or not the query section of the reply packet is equal to that of the query packet.
scope	string	Set to "svm" for DNS owned by an SVM, otherwise set to "cluster".
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
service_ips	array[string]	List of IP addresses for a DNS service. Addresses can be IPv4, IPv6 or both.
skip_config_validation	boolean	Indicates whether or not the validation for the specified DNS configuration is disabled.

Name	Type	Description
source_address_match	boolean	Indicates whether or not the DNS responses are from a different IP address to the IP address the request was sent to.
status	array[status]	Status of all the DNS name servers configured for the specified SVM.
svm	svm	SVM, applies only to SVM-scoped objects.
timeout	integer	Timeout values for queries to the name servers, in seconds.
tld_query_enabled	boolean	Enable or disable top-level domain (TLD) queries.
uuid	string	UUID of the DNS object.

Example request

```
{
  "attempts": 1,
  "domains": [
    "example.com",
    "example2.example3.com"
  ],
  "scope": "string",
  "servers": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "service_ips": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "status": [
    {
      "code": 6684732,
      "message": "string",
      "name_server": "10.10.10.10",
      "state": "up"
    }
  ],
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "timeout": 2,
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
```

Response

Status: 201, Created

Name	Type	Description
num_records	integer	Number of DNS domain records.
records	array[dns]	

Example response

```
{
  "num_records": 1,
  "records": [
    {
      "attempts": 1,
      "domains": [
        "example.com",
        "example2.example3.com"
      ],
      "scope": "string",
      "servers": [
        "10.224.65.20",
        "2001:db08:a0b:12f0::1"
      ],
      "service_ips": [
        "10.224.65.20",
        "2001:db08:a0b:12f0::1"
      ],
      "status": [
        {
          "code": 6684732,
          "message": "string",
          "name_server": "10.10.10.10",
          "state": "up"
        }
      ],
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "timeout": 2,
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  ]
}
```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
2621706	The specified SVM UUID is incorrect for the specified SVM name
8847360	Only admin or data SVMs allowed
8847361	Exceeded the maximum number of domains allowed. Maximum of six domains only
8847362	Exceeded the maximum number of name servers allowed. Maximum of three name servers only
8847392	Domain name cannot be an IP address
8847393	Top level domain name is invalid
8847399	One or more of the specified DNS servers do not exist or cannot be reached
8847394	FQDN name violated the limitations
8847403	Scope specified is invalid for the specified SVM
9240587	FQDN name cannot be empty
9240588	FQDN name is too long. Maximum supported length: 255 characters
9240590	FQDN name is reserved. Following names are reserved: "all", "local" and "localhost"
9240607	One of the FQDN labels is too long. Maximum supported length is 63 characters
13434916	The SVM is in the process of being created. Wait a few minutes, and then try the command again.
23724130	Cannot use an IPv6 name server address because there are no IPv6 LIFs
1377682	IPv6 is not enabled in the cluster

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

dynamic_dns

Name	Type	Description
enabled	boolean	Enable or disable Dynamic DNS (DDNS) updates for the specified SVM.
fqdn	string	Fully Qualified Domain Name (FQDN) to be used for dynamic DNS updates.
skip_fqdn_validation	boolean	Enable or disable FQDN validation.
time_to_live	string	Time to live value for the dynamic DNS updates, in an ISO-8601 duration formatted string. Maximum Time To Live is 720 hours(P30D in ISO-8601 format) and the default is 24 hours(P1D in ISO-8601 format).
use_secure	boolean	Enable or disable secure dynamic DNS updates for the specified SVM.

status

Status of each of the DNS name server configured for the specified SVM.

Name	Type	Description
code	integer	Code corresponding to the status message. Code is 0 when the state is 'up'.
message	string	Detailed description of the validation state if the state is 'down' or the response time of the DNS server if the state is 'up'.

Name	Type	Description
name_server	string	The IP address of the DNS server. The address can be either an IPv4 or an IPv6 address.
state	string	The validation status of the DNS server.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

dns

Name	Type	Description
attempts	integer	Number of attempts allowed when querying the DNS name servers.

Name	Type	Description
domains	array[string]	A list of DNS domains. Domain names have the following requirements: • The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_". • The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9. • The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9. • The top level domain must contain only the following characters: A through Z, a through z. • The system reserves the following names: "all", "local", and "localhost".
packet_query_match	boolean	Indicates whether or not the query section of the reply packet is equal to that of the query packet.
scope	string	Set to "svm" for DNS owned by an SVM, otherwise set to "cluster".
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
service_ips	array[string]	List of IP addresses for a DNS service. Addresses can be IPv4, IPv6 or both.
skip_config_validation	boolean	Indicates whether or not the validation for the specified DNS configuration is disabled.

Name	Type	Description
source_address_match	boolean	Indicates whether or not the DNS responses are from a different IP address to the IP address the request was sent to.
status	array[status]	Status of all the DNS name servers configured for the specified SVM.
svm	svm	SVM, applies only to SVM-scoped objects.
timeout	integer	Timeout values for queries to the name servers, in seconds.
tld_query_enabled	boolean	Enable or disable top-level domain (TLD) queries.
uuid	string	UUID of the DNS object.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete the DNS domain configuration for an SVM

```
DELETE /name-services/dns/{uuid}
```

Introduced In: 9.13

Deletes DNS domain configuration of the specified SVM.

Related ONTAP commands

- `vserver services name-service dns delete`

Learn more

- [DOC /name-services/dns](#)

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	

Response

Status: 200, Ok

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve the DNS domain and server configuration for an SVM

GET /name-services/dns/{uuid}

Introduced In: 9.13

Retrieves DNS domain and server configuration of an SVM. By default, both DNS domains and servers are displayed.

Advanced properties

- 'tld_query_enabled'
- 'source_address_match'
- 'packet_query_match'
- 'status' property retrieves the status of each name server of the DNS configuration for an SVM.
- 'service_ips' property is displayed only when both service.name and SVM are set.

Related ONTAP commands

- `vserver services name-service dns show`
- `vserver services name-service dns check`
- `vserver services name-service dns dynamic-update show`

- `vserver services access-check dns srv-lookup`

Learn more

- [DOC /name-services/dns](#)

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	UUID of the DNS object.
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
attempts	integer	Number of attempts allowed when querying the DNS name servers.

Name	Type	Description
domains	array[string]	A list of DNS domains. Domain names have the following requirements: • The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-" or "_". • The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9. • The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9. • The top level domain must contain only the following characters: A through Z, a through z. • The system reserves the following names: "all", "local", and "localhost".
dynamic_dns	dynamic_dns	
packet_query_match	boolean	Indicates whether or not the query section of the reply packet is equal to that of the query packet.
scope	string	Set to "svm" for DNS owned by an SVM, otherwise set to "cluster".
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
service_ips	array[string]	List of IP addresses for a DNS service. Addresses can be IPv4, IPv6 or both.
source_address_match	boolean	Indicates whether or not the DNS responses are from a different IP address to the IP address the request was sent to.

Name	Type	Description
status	array[status]	Status of all the DNS name servers configured for the specified SVM.
svm	svm	SVM, applies only to SVM-scoped objects.
timeout	integer	Timeout values for queries to the name servers, in seconds.
tld_query_enabled	boolean	Enable or disable top-level domain (TLD) queries.
uuid	string	UUID of the DNS object.

Example response

```

{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "attempts": 1,
  "domains": [
    "example.com",
    "example2.example3.com"
  ],
  "dynamic_dns": {
    "fqdn": "example.com",
    "time_to_live": "P2D"
  },
  "scope": "string",
  "servers": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "service_ips": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "skip_config_validation": true,
  "status": [
    {
      "code": 6684732,
      "message": "string",
      "name_server": "10.10.10.10",
      "state": "up"
    }
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "timeout": 2,
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}

```


Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

dynamic_dns

Name	Type	Description
enabled	boolean	Enable or disable Dynamic DNS (DDNS) updates for the specified SVM.
fqdn	string	Fully Qualified Domain Name (FQDN) to be used for dynamic DNS updates.
skip_fqdn_validation	boolean	Enable or disable FQDN validation.
time_to_live	string	Time to live value for the dynamic DNS updates, in an ISO-8601 duration formatted string. Maximum Time To Live is 720 hours(P30D in ISO-8601 format) and the default is 24 hours(P1D in ISO-8601 format).
use_secure	boolean	Enable or disable secure dynamic DNS updates for the specified SVM.

status

Status of each of the DNS name server configured for the specified SVM.

Name	Type	Description
code	integer	Code corresponding to the status message. Code is 0 when the state is 'up'.

Name	Type	Description
message	string	Detailed description of the validation state if the state is 'down' or the response time of the DNS server if the state is 'up'.
name_server	string	The IP address of the DNS server. The address can be either an IPv4 or an IPv6 address.
state	string	The validation status of the DNS server.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message

Name	Type	Description
target	string	The target parameter that caused the error.

Update the DNS domain and server configuration for an SVM

PATCH /name-services/dns/{uuid}

Introduced In: 9.13

Updates DNS domain and server configurations of an SVM.

Important notes

- Both DNS domains and servers can be modified.
- The domains and servers fields cannot be empty.
- IPv6 must be enabled if IPv6 family addresses are specified for the `servers` field.
- The DNS server specified using the `servers` field is validated during this operation.

The validation fails in the following scenarios:

1. The server is not a DNS server.
2. The server does not exist.
3. The server is unreachable.
 - The DNS server validation can be skipped by setting the property "skip_config_validation" to "true".
 - Dynamic DNS configuration can be modified.
 - If both DNS and Dynamic DNS parameters are modified, DNS parameters are updated first followed by Dynamic DNS parameters. If updating Dynamic DNS fails, then the updated DNS configuration is not reverted.

The following parameters are optional:

- timeout
- attempts
- source_address_match
- packet_query_match
- tld_query_enabled
- skip_config_validation
- dynamic_dns.enabled
- dynamic_dns.use_secure
- dynamic_dns.time_to_live

Related ONTAP commands

- `vserver services name-service dns modify`
- `vserver services name-service dns dynamic-update modify`

Learn more

- [DOC /name-services/dns](#)

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	UUID of the DNS object.

Request Body

Name	Type	Description
attempts	integer	Number of attempts allowed when querying the DNS name servers.
domains	array[string]	A list of DNS domains. Domain names have the following requirements: • The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_". • The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9. • The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9. • The top level domain must contain only the following characters: A through Z, a through z. • The system reserves the following names: "all", "local", and "localhost".
dynamic_dns	dynamic_dns	

Name	Type	Description
packet_query_match	boolean	Indicates whether or not the query section of the reply packet is equal to that of the query packet.
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
service_ips	array[string]	List of IP addresses for a DNS service. Addresses can be IPv4, IPv6 or both.
skip_config_validation	boolean	Indicates whether or not the validation for the specified DNS configuration is disabled.
source_address_match	boolean	Indicates whether or not the DNS responses are from a different IP address to the IP address the request was sent to.
status	array[status]	Status of all the DNS name servers configured for the specified SVM.
timeout	integer	Timeout values for queries to the name servers, in seconds.
tld_query_enabled	boolean	Enable or disable top-level domain (TLD) queries.
uuid	string	UUID of the DNS object.

Example request

```
{
  "attempts": 1,
  "domains": [
    "example.com",
    "example2.example3.com"
  ],
  "dynamic_dns": {
    "fqdn": "example.com",
    "time_to_live": "P2D"
  },
  "servers": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "service_ips": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "status": [
    {
      "code": 6684732,
      "message": "string",
      "name_server": "10.10.10.10",
      "state": "up"
    }
  ],
  "timeout": 2,
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
8847360	Only admin or data SVMs allowed
8847361	Exceeded the maximum number of domains allowed. Maximum of six domains only
8847362	Exceeded the maximum number of name servers allowed. Maximum of three name servers only
8847376	FQDN is mandatory if dynamic DNS update is being enabled.
8847380	Secure updates can be enabled only after a CIFS server or an Active Directory account has been created for the SVM.
8847381	A unique FQDN must be specified for each SVM.
8847383	The specified TTL exceeds the maximum supported value of 720 hours.
8847392	Domain name cannot be an IP address
8847393	Top level domain name is invalid
8847394	FQDN name violated the limitations
8847399	One or more of the specified DNS servers do not exist or cannot be reached
8847404	Dynamic DNS is applicable only for data SVMs
8847405	DNS parameters updated successfully; however the update of Dynamic DNS-related parameters has failed.
9240587	FQDN name cannot be empty
9240588	FQDN name is too long. Maximum supported length: 255 characters
9240590	FQDN name is reserved. Following names are reserved: "all", "local" and "localhost"
9240607	One of the FQDN labels is too long. Maximum supported length is 63 characters
9240608	FQDN does not contain a ".". At least one "." is mandatory for an FQDN.
9240607	A label of the FQDN is too long (73 characters). Maximum supported length for each label is 63 characters.
23724130	Cannot use an IPv6 name server address because there are no IPv6 LIFs

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

dynamic_dns

Name	Type	Description
enabled	boolean	Enable or disable Dynamic DNS (DDNS) updates for the specified SVM.
fqdn	string	Fully Qualified Domain Name (FQDN) to be used for dynamic DNS updates.
skip_fqdn_validation	boolean	Enable or disable FQDN validation.
time_to_live	string	Time to live value for the dynamic DNS updates, in an ISO-8601 duration formatted string. Maximum Time To Live is 720 hours(P30D in ISO-8601 format) and the default is 24 hours(P1D in ISO-8601 format).
use_secure	boolean	Enable or disable secure dynamic DNS updates for the specified SVM.

status

Status of each of the DNS name server configured for the specified SVM.

Name	Type	Description
code	integer	Code corresponding to the status message. Code is 0 when the state is 'up'.
message	string	Detailed description of the validation state if the state is 'down' or the response time of the DNS server if the state is 'up'.

Name	Type	Description
name_server	string	The IP address of the DNS server. The address can be either an IPv4 or an IPv6 address.
state	string	The validation status of the DNS server.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

dns

Name	Type	Description
attempts	integer	Number of attempts allowed when querying the DNS name servers.

Name	Type	Description
domains	array[string]	A list of DNS domains. Domain names have the following requirements: • The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_". • The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9. • The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9. • The top level domain must contain only the following characters: A through Z, a through z. • The system reserves the following names: "all", "local", and "localhost".
dynamic_dns	dynamic_dns	
packet_query_match	boolean	Indicates whether or not the query section of the reply packet is equal to that of the query packet.
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
service_ips	array[string]	List of IP addresses for a DNS service. Addresses can be IPv4, IPv6 or both.
skip_config_validation	boolean	Indicates whether or not the validation for the specified DNS configuration is disabled.

Name	Type	Description
source_address_match	boolean	Indicates whether or not the DNS responses are from a different IP address to the IP address the request was sent to.
status	array[status]	Status of all the DNS name servers configured for the specified SVM.
timeout	integer	Timeout values for queries to the name servers, in seconds.
tld_query_enabled	boolean	Enable or disable top-level domain (TLD) queries.
uuid	string	UUID of the DNS object.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

View host records

Name-services host-record svm.uuid host endpoint overview

Overview

Displays the IP address of the specified hostname and vice-versa.

Retrieving the host table entries

The host-record GET endpoint to retrieve the hostname for a given Ip address and vice-versa.

Examples

Retrieving the hostname for a given IP address.

```
# The API:
GET /api/name-services/host-record/{svm.uuid}/{host}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/host-record/77e23bd4-a8fe-11eb-99e0-0050568e14ff/127.0.0.1" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "77e23bd4-a8fe-11eb-99e0-0050568e14ff",
    "name": "svm1"
  },
  "host": "127.0.0.1",
  "ipv4_addresses": [
    "127.0.0.1"
  ],
  "hostname": "localhost",
  "source": "Files"
}
```

Retrieving the Ip address for a given hostname.

```
# The API:
GET /api/name-services/host-record/{svm.uuid}/{host}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/host-record/77e23bd4-a8fe-11eb-99e0-0050568e14ff/localhost" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "77e23bd4-a8fe-11eb-99e0-0050568e14ff",
    "name": "svm1"
  },
  "host": "localhost",
  "ipv4_addresses": [
    "127.0.0.1"
  ],
  "ipv6_addresses": [
    "::1"
  ],
  "hostname": "localhost",
  "canonical_name": "localhost",
  "source": "Files"
}
```

Retrieve an IP address of a hostname

GET /name-services/host-record/{svm.uuid}/{host}

Introduced In: 9.10

Retrieves the IP address of the specified hostname and vice-versa.

Related ONTAP commands

- `vserver services name-service getxxbyyy getnameinfo`
- `vserver services name-service getxxbyyy getaddrinfo`

Parameters

Name	Type	In	Required	Description
host	string	path	True	Hostname or IP address.

Name	Type	In	Required	Description
use_cache	boolean	query	False	Enables or disables the cache. • Introduced in: 9.11 • Default value:
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
canonical_name	string	Canonical name of the host.
host	string	IP address or hostname.
hostname	string	Hostname.
ipv4_addresses	array[string]	List of IPv4 addresses.
ipv6_addresses	array[string]	List of IPv6 addresses.
source	string	Source used for lookup.
svm	svm	SVM, applies only to SVM-scoped objects.

Example response

```
{
  "canonical_name": "localhost",
  "host": "localhost",
  "hostname": "localhost",
  "ipv4_addresses": [
    "127.0.0.1"
  ],
  "ipv6_addresses": [
    ":1"
  ],
  "source": "Files",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
8912900	Invalid IP address.
23724050	Failed to resolve the specified hostname or IP address.

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage LDAP server configurations

Name-services LDAP endpoint overview

Overview

LDAP servers are used to centrally maintain user information. LDAP configurations must be set up to lookup information stored in the LDAP directory on the external LDAP servers. This API is used to retrieve and manage LDAP server configurations.

Retrieving LDAP information

The LDAP GET endpoint retrieves all of the LDAP configurations in the cluster.

Examples

Retrieving all of the fields for all LDAP configurations

```
# The API:
/api/name-services/ldap

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/ldap?fields=*" -H
"accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
          }
        }
      },
      "servers": [
        "10.10.10.10",
        "domainB.example.com"
      ],
      "schema": "ad_idmu",
      "port": 389,
      "ldaps_enabled": false,
      "min_bind_level": "anonymous",
    }
  ]
}
```

```

"bind_dn": "cn=Administrators,cn=users,dc=domainA,dc=example,dc=com",
"base_dn": "dc=domainA,dc=example,dc=com",
"base_scope": "subtree",
"use_start_tls": true,
"session_security": "none",
"referral_enabled": false,
"bind_as_cifs_server": false,
"query_timeout": 3,
"is_owner": true,
"user_scope": "subtree",
"group_scope": "subtree",
"netgroup_scope": "subtree",
"is_netgroup_byhost_enabled": false,
"netgroup_byhost_scope": "subtree",
"group_membership_filter": "",
"status": {
  "state": "down",
  "message": "The LDAP configuration is invalid. Verify that the AD
domain or servers are reachable and that the network configuration is
correct",
  "dn_message": [
    "No LDAP DN configured"
  ],
  "code": 4915258,
  "ipv4_state": "down",
  "ipv6_state": "down"
},
"try_channel_binding": true,
"restrict_discovery_to_site" : false,
"_links": {
  "self": {
    "href": "/api/name-services/ldap/179d3c85-7053-11e8-b9b8-
005056b41bd1"
  }
},
{
  "svm": {
    "uuid": "6a52023b-7066-11e8-b9b8-005056b41bd1",
    "name": "vs2",
    "_links": {
      "self": {
        "href": "/api/svm/svms/6a52023b-7066-11e8-b9b8-005056b41bd1"
      }
    }
  }
},

```

```

"ad_domain": "example.com",
"schema": "rfc_2307",
"port": 389,
"ldaps_enabled": false,
"min_bind_level": "simple",
"bind_dn": "cn=Administrators,cn=users,dc=domainB,dc=example,dc=com",
"base_dn": "dc=domainB,dc=example,dc=com",
"base_scope": "subtree",
"use_start_tls": true,
"session_security": "sign",
"referral_enabled": false,
"bind_as_cifs_server": false,
"query_timeout": 0,
"is_owner": true,
"user_scope": "subtree",
"group_scope": "subtree",
"netgroup_scope": "subtree",
"is_netgroup_byhost_enabled": false,
"netgroup_byhost_scope": "subtree",
"group_membership_filter": "",
"status": {
  "state": "up",
  "message": "Successfully connected to LDAP server \"172.20.192.44\".
Successfully connected to LDAP server
\"fd20:8b1e:b255:5056:999:d9:516c:bf69\".",
  "dn_message": [
    "All the configured DN's are available."
  ],
  "code": 0,
  "ipv4_state": "up",
  "ipv6_state": "up"
},
"try_channel_binding": true,
"restrict_discovery_to_site": true,
"_links": {
  "self": {
    "href": "/api/name-services/ldap/6a52023b-7066-11e8-b9b8-
005056b41bd1"
  }
}
],
"num_records": 2,
"_links": {
  "self": {
    "href": "/api/name-services/ldap?fields=*"
  }
}

```

```
}  
}  
}
```

Retrieving all of the LDAP configurations that have the *use_start_tls* set to *true*

```
# The API:
/api/name-services/ldap

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/ldap?use_start_tls=true"
-H "accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "6a52023b-7066-11e8-b9b8-005056b41bd1",
        "name": "vs2",
        "_links": {
          "self": {
            "href": "/api/svm/svms/6a52023b-7066-11e8-b9b8-005056b41bd1"
          }
        }
      },
      "use_start_tls": true,
      "_links": {
        "self": {
          "href": "/api/name-services/ldap/6a52023b-7066-11e8-b9b8-005056b41bd1"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/name-services/ldap?use_start_tls=true"
    }
  }
}
```

Retrieving the LDAP configuration of a specific SVM

```

# The API:
/api/name-services/ldap/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/ldap/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
    "name": "vs1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
      }
    }
  },
  "servers": [
    "10.10.10.10",
    "domainB.example.com"
  ],
  "schema": "ad_idmu",
  "port": 389,
  "ldaps_enabled": false,
  "min_bind_level": "anonymous",
  "bind_dn": "cn=Administrators,cn=users,dc=domainA,dc=example,dc=com",
  "base_dn": "dc=domainA,dc=example,dc=com",
  "base_scope": "subtree",
  "use_start_tls": true,
  "referral_enabled": false,
  "session_security": "none",
  "bind_as_cifs_server": true,
  "query_timeout": 3,
  "is_owner": true,
  "try_channel_binding": true,
  "restrict_discovery_to_site": false,
  "_links": {
    "self": {
      "href": "/api/name-services/ldap/179d3c85-7053-11e8-b9b8-005056b41bd1"
    }
  }
}

```



```
# The API:
/api/name-services/ldap/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/ldap/179d3c85-7053-11e8-b9b8-005056b41bd1?fields=*" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
    "name": "vs1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
      }
    }
  },
  "servers": [
    "10.10.10.10",
    "domainB.example.com"
  ],
  "schema": "ad_idmu",
  "port": 389,
  "ldaps_enabled": false,
  "min_bind_level": "anonymous",
  "bind_dn": "cn=Administrators,cn=users,dc=domainA,dc=example,dc=com",
  "base_dn": "dc=domainA,dc=example,dc=com",
  "base_scope": "subtree",
  "use_start_tls": true,
  "referral_enabled": false,
  "session_security": "none",
  "bind_as_cifs_server": true,
  "query_timeout": 3,
  "is_owner": true,
  "user_scope": "subtree",
  "group_scope": "subtree",
  "netgroup_scope": "subtree",
  "is_netgroup_byhost_enabled": false,
  "netgroup_byhost_scope": "subtree",
  "group_membership_filter": "",
  "try_channel_binding": true,
  "restrict_discovery_to_site": false,
```

```
"status": {
  "state": "down",
  "message": "The LDAP configuration is invalid. Verify that the AD domain
or servers are reachable and that the network configuration is correct",
  "dn_message": [
    "No LDAP DN configured"
  ],
  "code": 4915258,
  "ipv4_state": "down",
  "ipv6_state": "down"
},
"_links": {
  "self": {
    "href": "/api/name-services/ldap/179d3c85-7053-11e8-b9b8-005056b41bd1"
  }
}
}
```

Retrieving the LDAP server status of a specific SVM

```
# The API:
/api/name-services/ldap/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/ldap/9e4a2e3b-f66f-11ea-aec8-0050568e155c?fields=status" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "9e4a2e3b-f66f-11ea-aec8-0050568e155c",
    "name": "vs2"
  },
  "status": {
    "state": "up",
    "message": "Successfully connected to LDAP server \"172.20.192.44\".
Successfully connected to LDAP server
\"fd20:8b1e:b255:5056:999:d9:516c:bf69\".",
    "code": 0,
    "ipv4_state": "up",
    "ipv6_state": "up"
  }
}
```

Retrieving all of the LDAP configurations that have the *restrict_discovery_to_site* set to true

```
# The API:
/api/name-services/ldap

# The call:
curl -X GET "https://<mgmt-ip>/api/name-
services/ldap?restrict_discovery_to_site=true" -H "accept:
application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "6a52023b-7066-11e8-b9b8-005056b41bd1",
        "name": "vs2",
        "_links": {
          "self": {
            "href": "/api/svm/svms/6a52023b-7066-11e8-b9b8-005056b41bd1"
          }
        }
      },
      "restrict_discovery_to_site": true,
      "_links": {
        "self": {
          "href": "/api/name-services/ldap/6a52023b-7066-11e8-b9b8-
005056b41bd1"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/name-services/ldap?restrict_discovery_to_site=true"
    }
  }
}
```

Creating an LDAP configuration

The LDAP POST endpoint creates an LDAP configuration for the specified SVM.

Examples

Creating an LDAP configuration with all the fields specified

```
# The API:
/api/name-services/ldap

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/ldap" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d "{ \"svm\": {
\"uuid\": \"179d3c85-7053-11e8-b9b8-005056b41bd1\" }, \"servers\": [
\"10.10.10.10\", \"domainB.example.com\" ], \"schema\": \"ad_idmu\",
\"port\": 389, \"ldaps_enabled\": false, \"min_bind_level\":
\"anonymous\", \"bind_dn\":
\"cn=Administrators,cn=users,dc=domainA,dc=example,dc=com\",
\"bind_password\": \"abc\", \"base_dn\": \"dc=domainA,dc=example,dc=com\",
\"base_scope\": \"subtree\", \"use_start_tls\": false,
\"session_security\": \"none\", \"referral_enabled\": false,
\"bind_as_cifs_server\": false, \"query_timeout\": 4, \"user_dn\":
\"cn=abc,users,dc=com\", \"user_scope\": \"subtree\", \"group_dn\":
\"cn=abc,users,dc=com\", \"group_scope\": \"subtree\", \"netgroup_dn\":
\"cn=abc,users,dc=com\", \"netgroup_scope\": \"subtree\",
\"netgroup_byhost_dn\": \"cn=abc,users,dc=com\",
\"netgroup_byhost_scope\": \"subtree\", \"is_netgroup_byhost_enabled\":
false, \"group_membership_filter\": \"\", \"skip_config_validation\":
false } "
```

Creating an LDAP configuration with Active Directory domain and preferred Active Directory servers specified

```
# The API:
/api/name-services/ldap

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/ldap" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d "{ \"svm\": {
\"name\": \"vs2\" }, \"ad_domain\": \"domainA.example.com\",
\"preferred_ad_servers\": [ \"11.11.11.11\" ], \"port\": 389,
\"ldaps_enabled\": false, \"bind_dn\":
\"cn=Administrators,cn=users,dc=domainA,dc=example,dc=com\",
\"bind_password\": \"abc\", \"base_dn\": \"dc=domainA,dc=example,dc=com\",
\"session_security\": \"none\", \"referral_enabled\": false,
\"query_timeout\": 3}"
```

Creating an LDAP configuration with a number of optional fields not specified

```
# The API:
/api/name-services/ldap

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/ldap" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d "{ \"svm\": {
\"name\": \"vs2\" }, \"servers\": [ \"11.11.11.11\" ], \"port\": 389,
\"bind_dn\": \"cn=Administrators,cn=users,dc=domainA,dc=example,dc=com\",
\"bind_password\": \"abc\", \"base_dn\": \"dc=domainA,dc=example,dc=com\",
\"session_security\": \"none\"}"
```

Creating an LDAP configuration with Active Directory domain specified and *restrict_discovery_to_site* set to true

```
# The API:
/api/name-services/ldap

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/ldap" -H "accept: application/hal+json" -H "Content-Type: application/json" -d "{ \"svm\": { \"name\": \"vs2\" }, \"ad_domain\": \"example.com\", \"port\": 389, \"bind_dn\": \"cn=Administrators,cn=users,dc=domainA,dc=example,dc=com\", \"bind_password\": \"abc\", \"base_dn\": \"dc=domainA,dc=example,dc=com\", \"session_security\": \"none\", \"restrict_discovery_to_site\": true}"
```

Updating an LDAP configuration

The LDAP PATCH endpoint updates the LDAP configuration for the specified SVM. The following example shows a PATCH operation:

```
# The API:
/api/name-services/ldap/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/ldap/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"servers\": [ \"55.55.55.55\" ], \"schema\": \"ad_idmu\", \"port\": 636, \"ldaps_enabled\": true, \"use_start_tls\": false, \"referral_enabled\": false, \"restrict_discovery_to_site\": false}"
```

Deleting an LDAP configuration

The LDAP DELETE endpoint deletes the LDAP configuration for the specified SVM. The following example shows a DELETE operation:

```
# The API:
/api/name-services/ldap/{svm.uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/ldap/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/hal+json"
```

Retrieve the LDAP configuration for all SVMs

GET /name-services/ldap

Introduced In: 9.6

Retrieves the LDAP configurations for all SVMs.

Related ONTAP commands

- `ldap show`
- `ldap check -vserver vs0`
- `ldap check-ipv6 -vserver vs0`

Important notes

- The `status.code`, `status.dn_message`, `status.message`, and `status.state` fields have the same status fields that are returned using the "ldap check" CLI command.
- Refer to the `ipv4` or `ipv6` objects available in the `status` field to get specific information about the code, `dn_messages`, or `message` and `state` information for `ipv4` or `ipv6`.

Parameters

Name	Type	In	Required	Description
<code>use_start_tls</code>	boolean	query	False	Filter by <code>use_start_tls</code> • Introduced in: 9.7
<code>schema</code>	string	query	False	Filter by <code>schema</code> • Introduced in: 9.7
<code>group_membership_filter</code>	string	query	False	Filter by <code>group_membership_filter</code> • Introduced in: 9.9
<code>restrict_discovery_to_site</code>	boolean	query	False	Filter by <code>restrict_discovery_to_site</code> • Introduced in: 9.13

Name	Type	In	Required	Description
session_security	string	query	False	Filter by session_security Introduced in: 9.7
servers	string	query	False	Filter by servers Introduced in: 9.7
is_owner	boolean	query	False	Filter by is_owner Introduced in: 9.9
base_dn	string	query	False	Filter by base_dn Introduced in: 9.7
group_scope	string	query	False	Filter by group_scope Introduced in: 9.9
user_scope	string	query	False	Filter by user_scope Introduced in: 9.9
try_channel_binding	boolean	query	False	Filter by try_channel_binding Introduced in: 9.10
netgroup_byhost_dn	string	query	False	Filter by netgroup_byhost_dn Introduced in: 9.9
min_bind_level	string	query	False	Filter by min_bind_level Introduced in: 9.7

Name	Type	In	Required	Description
bind_dn	string	query	False	Filter by bind_dn • Introduced in: 9.7
ldaps_enabled	boolean	query	False	Filter by ldaps_enabled • Introduced in: 9.9
user_dn	string	query	False	Filter by user_dn • Introduced in: 9.9
status.ipv6.message	string	query	False	Filter by status.ipv6.message • Introduced in: 9.14
status.ipv6.dn_messages	string	query	False	Filter by status.ipv6.dn_messages • Introduced in: 9.14
status.ipv6.state	string	query	False	Filter by status.ipv6.state • Introduced in: 9.14
status.ipv6.code	integer	query	False	Filter by status.ipv6.code • Introduced in: 9.14
status.dn_message	string	query	False	Filter by status.dn_message • Introduced in: 9.9

Name	Type	In	Required	Description
status.state	string	query	False	Filter by status.state • Introduced in: 9.9
status.ipv4_state	string	query	False	Filter by status.ipv4_state • Introduced in: 9.13
status.code	integer	query	False	Filter by status.code • Introduced in: 9.9
status.message	string	query	False	Filter by status.message • Introduced in: 9.9
status.ipv6_state	string	query	False	Filter by status.ipv6_state • Introduced in: 9.13
status.ipv4.message	string	query	False	Filter by status.ipv4.message • Introduced in: 9.14
status.ipv4.dn_messages	string	query	False	Filter by status.ipv4.dn_messages • Introduced in: 9.14
status.ipv4.state	string	query	False	Filter by status.ipv4.state • Introduced in: 9.14

Name	Type	In	Required	Description
status.ipv4.code	integer	query	False	Filter by status.ipv4.code Introduced in: 9.14
port	integer	query	False	Filter by port - Introduced in: 9.7 - Max value: 65535 - Min value: 1
bind_as_cifs_server	boolean	query	False	Filter by bind_as_cifs_server Introduced in: 9.9
referral_enabled	boolean	query	False	Filter by referral_enabled Introduced in: 9.9
netgroup_byhost_scope	string	query	False	Filter by netgroup_byhost_scope Introduced in: 9.9
group_dn	string	query	False	Filter by group_dn Introduced in: 9.9
query_timeout	integer	query	False	Filter by query_timeout Introduced in: 9.9
ad_domain	string	query	False	Filter by ad_domain Introduced in: 9.7

Name	Type	In	Required	Description
base_scope	string	query	False	Filter by base_scope • Introduced in: 9.7
is_netgroup_byhost_enabled	boolean	query	False	Filter by is_netgroup_byhost_enabled • Introduced in: 9.9
svm.name	string	query	False	Filter by svm.name • Introduced in: 9.7
svm.uuid	string	query	False	Filter by svm.uuid • Introduced in: 9.7
netgroup_dn	string	query	False	Filter by netgroup_dn • Introduced in: 9.9
preferred_ad_servers	string	query	False	Filter by preferred_ad_servers • Introduced in: 9.7
netgroup_scope	string	query	False	Filter by netgroup_scope • Introduced in: 9.9
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Max value: 120 • Min value: 0 • Default value: 1
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of LDAP records.
records	array[ldap_service]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ad_domain": "example.com",
      "base_dn": "dc=domainB,dc=example,dc=com",
      "base_scope": "string",
      "bind_dn":
"cn=Administrators,cn=users,dc=domainB,dc=example,dc=com",
      "group_dn": "cn=abc,users,dc=com",
      "group_membership_filter": "",
      "group_scope": "string",
      "min_bind_level": "string",
      "netgroup_byhost_dn": "cn=abc,users,dc=com",
      "netgroup_byhost_scope": "string",
      "netgroup_dn": "cn=abc,users,dc=com",
      "netgroup_scope": "string",
      "port": 389,
      "preferred_ad_servers": [
        "11.11.11.11"
      ],
      "schema": "ad_idmu",
      "servers": [
        [
          "10.10.10.10",
          "domainB.example.com"
        ]
      ],
      "session_security": "string",
      "skip_config_validation": true,
      "status": {
```

```

    "code": 65537300,
    "dn_message": [
      "string"
    ],
    "ipv4": {
      "code": 65537300,
      "dn_messages": [
        "string"
      ],
      "message": "string",
      "state": "string"
    },
    "ipv4_state": "string",
    "ipv6": {
      "code": 65537300,
      "dn_messages": [
        "string"
      ],
      "message": "string",
      "state": "string"
    },
    "ipv6_state": "string",
    "message": "string",
    "state": "string"
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "user_dn": "cn=abc,users,dc=com",
  "user_scope": "string"
}
]
}

```

Error

Status: Default

Following error codes can be thrown as part of LDAP status information, if LDAP status is needed to be retrieved.

Error Code	Description
4915229	DNS resolution failed due to an internal error. Contact technical support if this issue persists
4915231	DNS resolution failed for one or more of the specified LDAP servers. Verify that a valid DNS server is configured
23724132	DNS resolution failed for all the specified LDAP servers. Verify that a valid DNS server is configured
4915258	The LDAP configuration is invalid. Verify that the Active Directory domain or servers are reachable and that the network configuration is correct
4915263	Failed to check the current status of LDAP server. Reason:<Reason for="" the="" failure=""></Reason>
4915234	The specified LDAP server or preferred Active Directory server is not supported because it is one of the following: multicast, loopback, 0.0.0.0, or broadcast
4915265	The specified bind password or bind DN is invalid
4915264	Certificate verification failed. Verify that a valid certificate is installed

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

ipv4

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

ipv6

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

status

Name	Type	Description
code	integer	This field is no longer supported. Use <code>ipv4.code</code> or <code>ipv6.code</code> instead.
dn_message	array[string]	
ipv4	ipv4	
ipv4_state	string	This field is no longer supported. Use <code>ipv4.state</code> instead.
ipv6	ipv6	
ipv6_state	string	This field is no longer supported. Use <code>ipv6.state</code> instead.
message	string	This field is no longer supported. Use <code>ipv4.message</code> or <code>ipv6.message</code> instead.
state	string	The status of the LDAP service for the SVM. The LDAP service is up if either <code>ipv4_state</code> or <code>ipv6_state</code> is up. The LDAP service is down if both <code>ipv4_state</code> and <code>ipv6_state</code> are down.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
<code>_links</code>	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

ldap_service

Name	Type	Description
_links	_links	
ad_domain	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST and PATCH.
base_dn	string	Specifies the default base DN for all searches.
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.

Name	Type	Description
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.

Name	Type	Description
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.
referral_enabled	boolean	Specifies whether or not LDAP referral is enabled.
restrict_discovery_to_site	boolean	Specifies whether or not LDAP server discovery is restricted to site-scope.

Name	Type	Description
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
status	status	
svm	svm	SVM, applies only to SVM-scoped objects.
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.

Name	Type	Description
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Create the LDAP configuration for an SVM

POST /name-services/ldap

Introduced In: 9.6

Creates an LDAP configuration for an SVM.

Important notes

- Each SVM can have one LDAP configuration.
- The LDAP servers and Active Directory domain are mutually exclusive fields. These fields cannot be empty. At any point in time, either the LDAP servers or Active Directory domain must be populated.

- LDAP configuration with Active Directory domain cannot be created on an admin SVM.
- IPv6 must be enabled if IPv6 family addresses are specified.

The following parameters are optional:

- preferred AD servers
- schema
- port
- ldaps_enabled
- min_bind_level
- bind_password
- base_scope
- use_start_tls
- session_security
- referral_enabled
- bind_as_cifs_server
- query_timeout
- user_dn
- user_scope
- group_dn
- group_scope
- netgroup_dn
- netgroup_scope
- netgroup_byhost_dn
- netgroup_byhost_scope
- is_netgroup_byhost_enabled
- group_membership_filter
- skip_config_validation
- try_channel_binding
- restrict_discovery_to_site

Configuring more than one LDAP server is recommended to avoid a single point of failure. Both FQDNs and IP addresses are supported for the "servers" field. The Active Directory domain or LDAP servers are validated as part of this operation.

LDAP validation fails in the following scenarios:

1. The server does not have LDAP installed.
2. The server or Active Directory domain is invalid.
3. The server or Active Directory domain is unreachable.

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
ad_domain	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST and PATCH.
base_dn	string	Specifies the default base DN for all searches.
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.

Name	Type	Description
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.

Name	Type	Description
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.
referral_enabled	boolean	Specifies whether or not LDAP referral is enabled.
restrict_discovery_to_site	boolean	Specifies whether or not LDAP server discovery is restricted to site-scope.

Name	Type	Description
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
skip_config_validation	boolean	Indicates whether or not the validation for the specified LDAP configuration is disabled.
status	status	
svm	svm	SVM, applies only to SVM-scoped objects.
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.

Name	Type	Description
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

Example request

```
{
  "ad_domain": "example.com",
  "base_dn": "dc=domainB,dc=example,dc=com",
  "base_scope": "string",
  "bind_dn": "cn=Administrators,cn=users,dc=domainB,dc=example,dc=com",
  "bind_password": "abc",
  "group_dn": "cn=abc,users,dc=com",
  "group_membership_filter": "",
  "group_scope": "string",
  "min_bind_level": "string",
  "netgroup_byhost_dn": "cn=abc,users,dc=com",
  "netgroup_byhost_scope": "string",
  "netgroup_dn": "cn=abc,users,dc=com",
  "netgroup_scope": "string",
  "port": 389,
  "preferred_ad_servers": [
    "11.11.11.11"
  ],
  "schema": "ad_idmu",
  "servers": [
    [
      "10.10.10.10",
      "domainB.example.com"
    ]
  ],
  "session_security": "string",
  "status": {
    "code": 65537300,
    "dn_message": [
      "string"
    ],
  },
  "ipv4": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ],
    "message": "string",
    "state": "string"
  },
  "ipv4_state": "string",
  "ipv6": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ]
  }
}
```



```

    ],
    "message": "string",
    "state": "string"
  },
  "ipv6_state": "string",
  "message": "string",
  "state": "string"
},
"svm": {
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"user_dn": "cn=abc,users,dc=com",
"user_scope": "string"
}

```

Response

Status: 201, Created

Name	Type	Description
num_records	integer	Number of LDAP records.
records	array[ldap_service]	

Example response

```
{
  "num_records": 1,
  "records": [
    {
      "ad_domain": "example.com",
      "base_dn": "dc=domainB,dc=example,dc=com",
      "base_scope": "string",
      "bind_dn":
"cn=Administrators,cn=users,dc=domainB,dc=example,dc=com",
      "bind_password": "abc",
      "group_dn": "cn=abc,users,dc=com",
      "group_membership_filter": "",
      "group_scope": "string",
      "min_bind_level": "string",
      "netgroup_byhost_dn": "cn=abc,users,dc=com",
      "netgroup_byhost_scope": "string",
      "netgroup_dn": "cn=abc,users,dc=com",
      "netgroup_scope": "string",
      "port": 389,
      "preferred_ad_servers": [
        "11.11.11.11"
      ],
      "schema": "ad_idmu",
      "servers": [
        [
          "10.10.10.10",
          "domainB.example.com"
        ]
      ],
      "session_security": "string",
      "status": {
        "code": 65537300,
        "dn_message": [
          "string"
        ],
        "ipv4": {
          "code": 65537300,
          "dn_messages": [
            "string"
          ],
          "message": "string",
          "state": "string"
        },
        "ipv4_state": "string",
```

```

    "ipv6": {
      "code": 65537300,
      "dn_messages": [
        "string"
      ],
      "message": "string",
      "state": "string"
    },
    "ipv6_state": "string",
    "message": "string",
    "state": "string"
  },
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "user_dn": "cn=abc,users,dc=com",
  "user_scope": "string"
}
]
}

```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
262186	LDAP Servers cannot be used with Active Directory domain and/or preferred Active Directory servers
2621488	Invalid SVM context
2621706	The specified SVM UUID is incorrect for the specified SVM name
4915203	The specified LDAP schema does not exist
262222	The specified LDAP servers or preferred Active Directory servers contain duplicate server entries

Error Code	Description
4915229	DNS resolution failed due to an internal error. Contact technical support if this issue persists
4915231	DNS resolution failed for one or more of the specified LDAP servers. Verify that a valid DNS server is configured
23724132	DNS resolution failed for all the specified LDAP servers. Verify that a valid DNS server is configured
4915234	The specified LDAP server or preferred Active Directory server is not supported because it is one of the following: multicast, loopback, 0.0.0.0, or broadcast
4915248	LDAP servers cannot be empty or "-". Specified Active Directory domain is invalid because it is empty or "-" or it contains either the special characters or "-" at the start or end of the domain)
4915251	STARTTLS and LDAPS cannot be used together
4915257	The LDAP configuration is invalid. Verify that bind-dn and bind password are correct
4915258	The LDAP configuration is invalid. Verify that the Active Directory domain or servers are reachable and that the network configuration is correct
4915259	LDAP configurations with Active Directory domains are not supported on admin SVM.
4915265	The specified bind password or bind DN is invalid
4915264	Certificate verification failed. Verify that a valid certificate is installed
13434916	The SVM is in the process of being created. Wait a few minutes, and then try the command again.
23724130	Cannot use an IPv6 name server address because there are no IPv6 LIFs
4915252	LDAP Referral is not supported with STARTTLS, with session security levels sign, seal or with LDAPS.
4915266	LDAP site discovery restriction cannot be applied to a mixed version cluster.
656477	Need default site to be specified to enable site restriction.
4915206	CIFS server is not configured for the vserver. LDAP client configuration requires CIFS server for binding.
4915261	Cannot use port "389" when "ldaps_enabled" is "true".
4915255	Base DN specified in the LDAP client configuration is not available.

Error Code	Description
4915268	The bind_as_cifs_server field cannot be set to true when the CIFS server is in workgroup mode.
4915269	The bind_as_cifs_server field cannot be set to true when the CIFS server is in realm mode.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

ipv4

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

ipv6

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

status

Name	Type	Description
code	integer	This field is no longer supported. Use ipv4.code or ipv6.code instead.
dn_message	array[string]	
ipv4	ipv4	

Name	Type	Description
ipv4_state	string	This field is no longer supported. Use ipv4.state instead.
ipv6	ipv6	
ipv6_state	string	This field is no longer supported. Use ipv6.state instead.
message	string	This field is no longer supported. Use ipv4.message or ipv6.message instead.
state	string	The status of the LDAP service for the SVM. The LDAP service is up if either <code>ipv4_state</code> or <code>ipv6_state</code> is up. The LDAP service is down if both <code>ipv4_state</code> and <code>ipv6_state</code> are down.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

ldap_service

Name	Type	Description
ad_domain	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST and PATCH.
base_dn	string	Specifies the default base DN for all searches.

Name	Type	Description
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.

Name	Type	Description
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.

Name	Type	Description
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.
referral_enabled	boolean	Specifies whether or not LDAP referral is enabled.
restrict_discovery_to_site	boolean	Specifies whether or not LDAP server discovery is restricted to site-scope.
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	

Name	Type	Description
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
skip_config_validation	boolean	Indicates whether or not the validation for the specified LDAP configuration is disabled.
status	status	
svm	svm	SVM, applies only to SVM-scoped objects.
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

error_arguments

Name	Type	Description
code	string	Argument code

Name	Type	Description
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete the LDAP configuration for an SVM

```
DELETE /name-services/ldap/{svm.uuid}
```

Introduced In: 9.6

Deletes the LDAP configuration of the specified SVM. LDAP can be removed as a source from the ns-switch if LDAP is not used as a source for lookups.

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

```
Status: 200, Ok
```

Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve the LDAP configuration for an SVM

GET /name-services/ldap/{svm.uuid}

Introduced In: 9.6

Retrieves LDAP configuration for an SVM. All parameters for the LDAP configuration are displayed by default.

Related ONTAP commands

- `ldap show`
- `ldap check -vserver vs0`
- `ldap check-ipv6 -vserver vs0`

Important notes

- The `status.code`, `status.dn_message`, `status.message`, and `status.state` fields have the same status fields that are returned using the "ldap check" CLI command.
- Refer to the `ipv4` or `ipv6` objects available in the `status` field to get specific information about the code, `dn_messages`, or message and state information for `ipv4` or `ipv6`.

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
<code>_links</code>	_links	
<code>ad_domain</code>	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST and PATCH.
<code>base_dn</code>	string	Specifies the default base DN for all searches.

Name	Type	Description
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.

Name	Type	Description
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	

Name	Type	Description
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.
referral_enabled	boolean	Specifies whether or not LDAP referral is enabled.
restrict_discovery_to_site	boolean	Specifies whether or not LDAP server discovery is restricted to site-scope.
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
status	status	
svm	svm	SVM, applies only to SVM-scoped objects.
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.

Name	Type	Description
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "ad_domain": "example.com",
  "base_dn": "dc=domainB,dc=example,dc=com",
  "base_scope": "string",
  "bind_dn": "cn=Administrators,cn=users,dc=domainB,dc=example,dc=com",
  "group_dn": "cn=abc,users,dc=com",
  "group_membership_filter": "",
  "group_scope": "string",
  "min_bind_level": "string",
  "netgroup_byhost_dn": "cn=abc,users,dc=com",
  "netgroup_byhost_scope": "string",
  "netgroup_dn": "cn=abc,users,dc=com",
  "netgroup_scope": "string",
  "port": 389,
  "preferred_ad_servers": [
    "11.11.11.11"
  ],
  "schema": "ad_idmu",
  "servers": [
    [
      "10.10.10.10",
      "domainB.example.com"
    ]
  ],
  "session_security": "string",
  "skip_config_validation": true,
  "status": {
    "code": 65537300,
    "dn_message": [
      "string"
    ],
  },
  "ipv4": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ],
    "message": "string",
    "state": "string"
  },
}
```

```

"ipv4_state": "string",
"ipv6": {
  "code": 65537300,
  "dn_messages": [
    "string"
  ],
  "message": "string",
  "state": "string"
},
"ipv6_state": "string",
"message": "string",
"state": "string"
},
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"user_dn": "cn=abc,users,dc=com",
"user_scope": "string"
}

```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

ipv4

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

ipv6

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

status

Name	Type	Description
code	integer	This field is no longer supported. Use ipv4.code or ipv6.code instead.

Name	Type	Description
dn_message	array[string]	
ipv4	ipv4	
ipv4_state	string	This field is no longer supported. Use ipv4.state instead.
ipv6	ipv6	
ipv6_state	string	This field is no longer supported. Use ipv6.state instead.
message	string	This field is no longer supported. Use ipv4.message or ipv6.message instead.
state	string	The status of the LDAP service for the SVM. The LDAP service is up if either <code>ipv4_state</code> or <code>ipv6_state</code> is up. The LDAP service is down if both <code>ipv4_state</code> and <code>ipv6_state</code> are down.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update the LDAP configuration for an SVM

PATCH /name-services/ldap/{svm.uuid}

Introduced In: 9.6

Updates an LDAP configuration of an SVM.

Important notes

- Both mandatory and optional parameters of the LDAP configuration can be updated.
- The LDAP servers and Active Directory domain are mutually exclusive fields. These fields cannot be empty. At any point in time, either the LDAP servers or Active Directory domain must be populated.
- IPv6 must be enabled if IPv6 family addresses are specified.

Configuring more than one LDAP server is recommended to avoid a single point of failure. Both FQDNs and IP addresses are supported for the "servers" field. The Active Directory domain or LDAP servers are validated as part of this operation.

LDAP validation fails in the following scenarios:

1. The server does not have LDAP installed.
2. The server or Active Directory domain is invalid.
3. The server or Active Directory domain is unreachable

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
ad_domain	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST and PATCH.
base_dn	string	Specifies the default base DN for all searches.
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.

Name	Type	Description
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

Name	Type	Description
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.
referral_enabled	boolean	Specifies whether or not LDAP referral is enabled.
restrict_discovery_to_site	boolean	Specifies whether or not LDAP server discovery is restricted to site-scope.
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	

Name	Type	Description
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
skip_config_validation	boolean	Indicates whether or not the validation for the specified LDAP configuration is disabled.
status	status	
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

Example request

```
{
  "ad_domain": "example.com",
  "base_dn": "dc=domainB,dc=example,dc=com",
  "base_scope": "string",
  "bind_dn": "cn=Administrators,cn=users,dc=domainB,dc=example,dc=com",
  "bind_password": "abc",
  "group_dn": "cn=abc,users,dc=com",
  "group_membership_filter": "",
  "group_scope": "string",
  "min_bind_level": "string",
  "netgroup_byhost_dn": "cn=abc,users,dc=com",
  "netgroup_byhost_scope": "string",
  "netgroup_dn": "cn=abc,users,dc=com",
  "netgroup_scope": "string",
  "port": 389,
  "preferred_ad_servers": [
    "11.11.11.11"
  ],
  "schema": "ad_idmu",
  "servers": [
    [
      "10.10.10.10",
      "domainB.example.com"
    ]
  ],
  "session_security": "string",
  "status": {
    "code": 65537300,
    "dn_message": [
      "string"
    ],
  },
  "ipv4": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ],
    "message": "string",
    "state": "string"
  },
  "ipv4_state": "string",
  "ipv6": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ]
  }
}
```

```

    ],
    "message": "string",
    "state": "string"
  },
  "ipv6_state": "string",
  "message": "string",
  "state": "string"
},
"user_dn": "cn=abc,users,dc=com",
"user_scope": "string"
}

```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
262186	LDAP Servers cannot be used with Active Directory domain and/or preferred Active Directory servers
2621488	Invalid SVM context
2621706	The specified SVM UUID is incorrect for the specified SVM name
4915203	The specified LDAP schema does not exist
262222	The specified LDAP servers or preferred Active Directory servers contain duplicate server entries
4915229	DNS resolution failed due to an internal error. Contact technical support if this issue persists
4915231	DNS resolution failed for one or more of the specified LDAP servers. Verify that a valid DNS server is configured
23724132	DNS resolution failed for all the specified LDAP servers. Verify that a valid DNS server is configured

Error Code	Description
4915234	The specified LDAP server or preferred Active Directory server is not supported because it is one of the following: multicast, loopback, 0.0.0.0, or broadcast
4915248	LDAP servers cannot be empty or "-". Specified Active Directory domain is invalid because it is empty or "-" or it contains either the special characters or "-" at the start or end of the domain.
4915251	STARTTLS and LDAPS cannot be used together
4915257	The LDAP configuration is invalid. Verify that the distinguished names and bind password are correct
4915258	The LDAP configuration is invalid. Verify that the Active Directory domain or servers are reachable and that the network configuration is correct
4915259	LDAP configurations with Active Directory domains are not supported on admin SVM.
23724130	Cannot use an IPv6 name server address because there are no IPv6 LIFs
4915252	LDAP Referral is not supported with STARTTLS, with session security levels sign, seal or with LDAPS.
4915266	LDAP site discovery restriction cannot be applied to a mixed version cluster.
656477	Need default site to be specified to enable site restriction.
4915206	CIFS server is not configured for the vserver. LDAP client configuration requires CIFS server for binding.
4915244	RPC failure occurred during validation of the LDAP configuration.
4915268	The bind_as_cifs_server field cannot be set to true when the CIFS server is in workgroup mode.
4915269	The bind_as_cifs_server field cannot be set to true when the CIFS server is in realm mode.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

ipv4

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

ipv6

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

status

Name	Type	Description
code	integer	This field is no longer supported. Use ipv4.code or ipv6.code instead.
dn_message	array[string]	
ipv4	ipv4	

Name	Type	Description
ipv4_state	string	This field is no longer supported. Use ipv4.state instead.
ipv6	ipv6	
ipv6_state	string	This field is no longer supported. Use ipv6.state instead.
message	string	This field is no longer supported. Use ipv4.message or ipv6.message instead.
state	string	The status of the LDAP service for the SVM. The LDAP service is up if either <code>ipv4_state</code> or <code>ipv6_state</code> is up. The LDAP service is down if both <code>ipv4_state</code> and <code>ipv6_state</code> are down.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

ldap_service

Name	Type	Description
ad_domain	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST and PATCH.
base_dn	string	Specifies the default base DN for all searches.

Name	Type	Description
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.

Name	Type	Description
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.

Name	Type	Description
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.
referral_enabled	boolean	Specifies whether or not LDAP referral is enabled.
restrict_discovery_to_site	boolean	Specifies whether or not LDAP server discovery is restricted to site-scope.
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	

Name	Type	Description
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
skip_config_validation	boolean	Indicates whether or not the validation for the specified LDAP configuration is disabled.
status	status	
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage LDAP schemas

Name-services ldap-schemas endpoint overview

Overview

ONTAP provides four default LDAP schemas. These are:

- MS-AD-BIS Based on RFC-2307bis. This is the preferred LDAP schema for most standard Windows 2012 and later LDAP deployments.
- AD-IDMU Based on Active Directory Identity Management for UNIX. This schema is appropriate for most Windows 2008, Windows 2012, and later AD servers.
- AD-SFU Based on Active Directory Services for UNIX. This schema is appropriate for most Windows 2003 and earlier AD servers.
- RFC-2307 Based on RFC-2307 (an approach that uses LDAP as a network information service). This schema is appropriate for most UNIX AD servers.

Examples

Retrieving LDAP schema information

```
# The API:
GET /api/name-services/ldap-schemas

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/ldap-schemas"

# The response:
{
  "records": [
    {
      "owner": {
```

```

    "uuid": "eda950c6-0a0c-11ec-bfcf-0050568e9150",
    "name": "athiracluster-1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/eda950c6-0a0c-11ec-bfcf-0050568e9150"
      }
    }
  },
  "name": "AD-IDMU",
  "_links": {
    "self": {
      "href": "/api/name-services/ldap-schemas/eda950c6-0a0c-11ec-bfcf-0050568e9150/AD-IDMU"
    }
  }
},
{
  "owner": {
    "uuid": "eda950c6-0a0c-11ec-bfcf-0050568e9150",
    "name": "athiracluster-1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/eda950c6-0a0c-11ec-bfcf-0050568e9150"
      }
    }
  },
  "name": "AD-SFU",
  "_links": {
    "self": {
      "href": "/api/name-services/ldap-schemas/eda950c6-0a0c-11ec-bfcf-0050568e9150/AD-SFU"
    }
  }
},
{
  "owner": {
    "uuid": "eda950c6-0a0c-11ec-bfcf-0050568e9150",
    "name": "athiracluster-1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/eda950c6-0a0c-11ec-bfcf-0050568e9150"
      }
    }
  },
  "name": "MS-AD-BIS",
  "_links": {

```

```

    "self": {
      "href": "/api/name-services/ldap-schemas/eda950c6-0a0c-11ec-bfcf-0050568e9150/MS-AD-BIS"
    }
  },
  {
    "owner": {
      "uuid": "eda950c6-0a0c-11ec-bfcf-0050568e9150",
      "name": "athiracluster-1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/eda950c6-0a0c-11ec-bfcf-0050568e9150"
        }
      }
    },
    "name": "RFC-2307",
    "_links": {
      "self": {
        "href": "/api/name-services/ldap-schemas/eda950c6-0a0c-11ec-bfcf-0050568e9150/RFC-2307"
      }
    }
  }
],
"num_records": 4,
"_links": {
  "self": {
    "href": "/api/name-services/ldap-schemas"
  }
}
}

```

Retrieving LDAP schema information for a given SVM and "name"

```

# The API:
GET /api/name-services/ldap-schemas

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/ldap-schemas/eda950c6-0a0c-11ec-bfcf-0050568e9150/RFC-2307"

```



```
# The response:
{
  "owner": {
    "uuid": "eda950c6-0a0c-11ec-bfcf-0050568e9150",
    "name": "svm1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/eda950c6-0a0c-11ec-bfcf-0050568e9150"
      }
    }
  },
  "name": "RFC-2307",
  "comment": "Schema based on RFC 2307 (read-only)",
  "name_mapping": {
    "account": {
      "unix": "unixAccount",
      "windows": "windowsAccount"
    },
    "windows_to_unix": {
      "attribute": "windowsAccount",
      "no_domain_prefix": false,
      "object_class": "posixAccount"
    }
  },
  "rfc2307": {
    "attribute": {
      "gecos": "gecos",
      "gid_number": "gidNumber",
      "home_directory": "homeDirectory",
      "login_shell": "loginShell",
      "uid": "uid",
      "uid_number": "uidNumber",
      "user_password": "userPassword"
    },
    "cn": {
      "group": "cn",
      "netgroup": "cn"
    },
    "member": {
      "nis_netgroup": "memberNisNetgroup",
      "uid": "memberUid"
    },
    "nis": {
      "netgroup_triple": "nisNetgroupTriple",
      "netgroup": "nisNetgroup",
      "object": "nisObject",

```

```
"mapname": "nisMapName",
"mapentry": "nisMapEntry"
},
"posix": {
  "account": "posixAccount",
  "group": "posixGroup"
}
},
"rfc2307bis": {
  "enabled": false,
  "group_of_unique_names": "groupOfUniqueNames",
  "maximum_groups": 256,
  "unique_member": "uniqueMember"
},
"scope": "cluster",
"global_schema": true,
"_links": {
  "self": {
    "href": "/api/name-services/ldap-schemas/eda950c6-0a0c-11ec-bfcf-0050568e9150/RFC-2307"
  }
}
}
```

Creating an LDAP schema

```
# The API:
POST /api/name-services/ldap-schemas

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/ldap-schemas" -H
"accept: application/json" -H "authorization: Basic YWRtaW46bmV0YXBwMSE="
-H "Content-Type: application/json" -d "{ \"name\":
\"schema\", \"template\": { \"name\": \"AD-IDMU\" }, \"owner\": { \"uuid\":
\"52ba8197-0a23-11ec-9622-0050568e9150\", \"name\" : \"svm1\" } }"
```

Updating an LDAP schema

```
# The API:
PATCH /api/name-services/ldap-schemas/{owner.uuid}/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/ldap-schemas/52ba8197-0a23-11ec-9622-0050568e9150/schema" -H "authorization: Basic YWRtaW46bmV0YXBwMSE=" -H "Content-Type: application/json" -d "{\"comment\": \"This is a comment for schema\"}"
```

Deleting an LDAP schema

```
# The API:
DELETE /api/name-services/ldap-schemas/{owner.uuid}/{name}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/ldap-schemas/52ba8197-0a23-11ec-9622-0050568e9150/schema"
```

Retrieve all LDAP schemas

GET /name-services/ldap-schemas

Introduced In: 9.11

Retrieves all the LDAP schemas.

Related ONTAP commands

- `vserver services name-service ldap client schema show`

Parameters

Name	Type	In	Required	Description
rfc2307.cn.group	string	query	False	Filter by rfc2307.cn.group
rfc2307.cn.netgroup	string	query	False	Filter by rfc2307.cn.netgroup

Name	Type	In	Required	Description
rfc2307.attribute.uid_number	string	query	False	Filter by rfc2307.attribute.uid_number
rfc2307.attribute.user_password	string	query	False	Filter by rfc2307.attribute.user_password
rfc2307.attribute.gecos	string	query	False	Filter by rfc2307.attribute.gecos
rfc2307.attribute.home_directory	string	query	False	Filter by rfc2307.attribute.home_directory
rfc2307.attribute.login_shell	string	query	False	Filter by rfc2307.attribute.login_shell
rfc2307.attribute.uid	string	query	False	Filter by rfc2307.attribute.uid
rfc2307.attribute.gid_number	string	query	False	Filter by rfc2307.attribute.gid_number
rfc2307.posix.account	string	query	False	Filter by rfc2307.posix.account
rfc2307.posix.group	string	query	False	Filter by rfc2307.posix.group
rfc2307.member.nis_netgroup	string	query	False	Filter by rfc2307.member.nis_netgroup
rfc2307.member.uid	string	query	False	Filter by rfc2307.member.uid
rfc2307.nis.object	string	query	False	Filter by rfc2307.nis.object
rfc2307.nis.mapentry	string	query	False	Filter by rfc2307.nis.mapentry

Name	Type	In	Required	Description
rfc2307.nis.mapname	string	query	False	Filter by rfc2307.nis.mapname
rfc2307.nis.netgroup_triple	string	query	False	Filter by rfc2307.nis.netgroup_triple
rfc2307.nis.netgroup	string	query	False	Filter by rfc2307.nis.netgroup
comment	string	query	False	Filter by comment
owner.name	string	query	False	Filter by owner.name
owner.uuid	string	query	False	Filter by owner.uuid
name_mapping.account.windows	string	query	False	Filter by name_mapping.account.windows
name_mapping.account.unix	string	query	False	Filter by name_mapping.account.unix
name_mapping.windows_to_unix.object_class	string	query	False	Filter by name_mapping.windows_to_unix.object_class
name_mapping.windows_to_unix.no_domain_prefix	boolean	query	False	Filter by name_mapping.windows_to_unix.no_domain_prefix
name_mapping.windows_to_unix.attribute	string	query	False	Filter by name_mapping.windows_to_unix.attribute
global_schema	boolean	query	False	Filter by global_schema

Name	Type	In	Required	Description
name	string	query	False	Filter by name • maxLength: 32 • minLength: 1
rfc2307bis.group_of_unique_names	string	query	False	Filter by rfc2307bis.group_of_unique_names
rfc2307bis.unique_member	string	query	False	Filter by rfc2307bis.unique_member
rfc2307bis.enabled	boolean	query	False	Filter by rfc2307bis.enabled
rfc2307bis.maximum_groups	integer	query	False	Filter by rfc2307bis.maximum_groups • Max value: 1024 • Min value: 1
scope	string	query	False	Filter by scope
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Max value: 120 • Min value: 0 • Default value: 1
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of LDAP schema records.
records	array[ldap_schema]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "comment": "Schema based on Active Directory Services for UNIX
(read-only).",
      "global_schema": 1,
      "name": "AD-SFU-v1",
      "name_mapping": {
        "account": {
          "unix": "windowsAccount",
          "windows": "windowsAccount"
        },
        "windows_to_unix": {
          "attribute": "windowsAccount",
          "no_domain_prefix": "",
          "object_class": "User"
        }
      },
      "owner": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "rfc2307": {
        "attribute": {
          "gecos": "name",
```



```

        "gid_number": "msSFU30GidNumber",
        "home_directory": "msSFU30HomeDirectory",
        "login_shell": "msSFU30LoginShell",
        "uid": "sAMAccountName",
        "uid_number": "msSFU30UidNumber",
        "user_password": "msSFU30Password"
    },
    "cn": {
        "group": "cn",
        "netgroup": "name"
    },
    "member": {
        "nis_netgroup": "msSFU30MemberNisNetgroup",
        "uid": "msSFU30MemberUid"
    },
    "nis": {
        "mapentry": "msSFU30NisMapEntry",
        "mapname": "msSFU30NisMapName",
        "netgroup": "msSFU30NisNetGroup",
        "netgroup_triple": "msSFU30MemberOfNisNetgroup",
        "object": "msSFU30NisObject"
    },
    "posix": {
        "account": "User",
        "group": "Group"
    }
},
"rfc2307bis": {
    "enabled": "",
    "group_of_unique_names": "groupOfUniqueNames",
    "maximum_groups": 256,
    "unique_member": "uniqueMember"
},
"scope": "string"
}
]
}

```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

ldap_schema_account

Name	Type	Description
unix	string	Attribute name used to retrieve UNIX account information.
windows	string	Attribute name used to retrieve Windows account information for a UNIX user account.

windows_to_unix

Name	Type	Description
attribute	string	Attribute name used to retrieve the UNIX account information for a Windows user account.
no_domain_prefix	boolean	Indicates whether or not the name for Windows to UNIX name mapping should have a domain prefix.
object_class	string	Name used to represent the windowsToUnix object class.

ldap_schema_name_mapping

Name	Type	Description
account	ldap_schema_account	
windows_to_unix	windows_to_unix	

owner

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

attribute

Name	Type	Description
gecos	string	RFC 2307 gecos attribute.
gid_number	string	RFC 2307 gidNumber attribute.
home_directory	string	RFC 2307 homeDirectory attribute.
login_shell	string	RFC 2307 loginShell attribute.
uid	string	RFC 1274 userid attribute used by RFC 2307 as UID.
uid_number	string	RFC 2307 uidNumber attribute.
user_password	string	RFC 2256 userPassword attribute used by RFC 2307.

cn

Name	Type	Description
group	string	RFC 2256 cn attribute used by RFC 2307 when working with groups.

Name	Type	Description
netgroup	string	RFC 2256 cn attribute used by RFC 2307 when working with netgroups.

member

Name	Type	Description
nis_netgroup	string	RFC 2307 memberNisNetgroup attribute.
uid	string	RFC 2307 memberUid attribute.

nis

Name	Type	Description
mapentry	string	RFC 2307 nisMapEntry attribute.
mapname	string	RFC 2307 nisMapName attribute.
netgroup	string	RFC 2307 nisNetgroup object class.
netgroup_triple	string	RFC 2307 nisNetgroupTriple attribute.
object	string	RFC 2307 nisObject object class.

posix

Name	Type	Description
account	string	RFC 2307 posixAccount object class.
group	string	RFC 2307 posixGroup object class.

rfc2307

Name	Type	Description
attribute	attribute	
cn	cn	

Name	Type	Description
member	member	
nis	nis	
posix	posix	

rfc2307bis

Name	Type	Description
enabled	boolean	Indicates whether RFC 2307bis is enabled for the client schema.
group_of_unique_names	string	RFC 2307bis groupOfUniqueNames object class.
maximum_groups	integer	Maximum number of groups supported when RFC 2307bis is enabled.
unique_member	string	RFC 2307bis uniqueMember attribute.

template

The existing schema template you want to copy.

Name	Type	Description
_links	_links	
name	string	The name of the schema.

ldap_schema

Name	Type	Description
_links	_links	
comment	string	Comment to associate with the schema.
global_schema	boolean	A global schema that can be used by all the SVMs.
name	string	The name of the schema being created, modified or deleted.
name_mapping	ldap_schema_name_mapping	

Name	Type	Description
owner	owner	SVM, applies only to SVM-scoped objects.
rfc2307	rfc2307	
rfc2307bis	rfc2307bis	
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Create an LDAP schema

POST /name-services/ldap-schemas

Introduced In: 9.11

Creates an LDAP schema.

Important notes

- To create a new schema, first create a copy of the default schemas provided by ONTAP and then modify the copy accordingly.
- If no value is specified for the owner.uuid or owner.name fields, the cserver UUID and name are used by default.

Related ONTAP commands

- `vserver services name-service ldap client schema copy`

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
global_schema	boolean	A global schema that can be used by all the SVMs.
name	string	The name of the schema being created, modified or deleted.
owner	owner	SVM, applies only to SVM-scoped objects.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.
template	template	The existing schema template you want to copy.

Example request

```
{
  "global_schema": 1,
  "name": "AD-SFU-v1",
  "owner": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "scope": "string",
  "template": {
    "name": "AD-SFU-v1"
  }
}
```

Response

Status: 201, Created

Name	Type	Description
global_schema	boolean	A global schema that can be used by all the SVMs.
name	string	The name of the schema being created, modified or deleted.
owner	owner	SVM, applies only to SVM-scoped objects.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.
template	template	The existing schema template you want to copy.

Example response

```
{
  "global_schema": 1,
  "name": "AD-SFU-v1",
  "owner": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "scope": "string",
  "template": {
    "name": "AD-SFU-v1"
  }
}
```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
2621706	The specified SVM UUID is incorrect for the specified SVM name.
4915221	LDAP schema name in use in data SVM.
4915222	LDAP schema name in use in admin SVM.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

ldap_schema_account

Name	Type	Description
unix	string	Attribute name used to retrieve UNIX account information.
windows	string	Attribute name used to retrieve Windows account information for a UNIX user account.

windows_to_unix

Name	Type	Description
attribute	string	Attribute name used to retrieve the UNIX account information for a Windows user account.
no_domain_prefix	boolean	Indicates whether or not the name for Windows to UNIX name mapping should have a domain prefix.
object_class	string	Name used to represent the windowsToUnix object class.

ldap_schema_name_mapping

Name	Type	Description
account	ldap_schema_account	
windows_to_unix	windows_to_unix	

owner

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

attribute

Name	Type	Description
gecos	string	RFC 2307 gecos attribute.
gid_number	string	RFC 2307 gidNumber attribute.
home_directory	string	RFC 2307 homeDirectory attribute.
login_shell	string	RFC 2307 loginShell attribute.
uid	string	RFC 1274 userid attribute used by RFC 2307 as UID.
uid_number	string	RFC 2307 uidNumber attribute.
user_password	string	RFC 2256 userPassword attribute used by RFC 2307.

cn

Name	Type	Description
group	string	RFC 2256 cn attribute used by RFC 2307 when working with groups.
netgroup	string	RFC 2256 cn attribute used by RFC 2307 when working with netgroups.

member

Name	Type	Description
nis_netgroup	string	RFC 2307 memberNisNetgroup attribute.
uid	string	RFC 2307 memberUid attribute.

nis

Name	Type	Description
mapentry	string	RFC 2307 nisMapEntry attribute.
mapname	string	RFC 2307 nisMapName attribute.
netgroup	string	RFC 2307 nisNetgroup object class.
netgroup_triple	string	RFC 2307 nisNetgroupTriple attribute.
object	string	RFC 2307 nisObject object class.

posix

Name	Type	Description
account	string	RFC 2307 posixAccount object class.
group	string	RFC 2307 posixGroup object class.

rfc2307

Name	Type	Description
attribute	attribute	
cn	cn	
member	member	
nis	nis	
posix	posix	

rfc2307bis

Name	Type	Description
enabled	boolean	Indicates whether RFC 2307bis is enabled for the client schema.
group_of_unique_names	string	RFC 2307bis groupOfUniqueNames object class.
maximum_groups	integer	Maximum number of groups supported when RFC 2307bis is enabled.
unique_member	string	RFC 2307bis uniqueMember attribute.

template

The existing schema template you want to copy.

Name	Type	Description
name	string	The name of the schema.

ldap_schema

Name	Type	Description
global_schema	boolean	A global schema that can be used by all the SVMs.
name	string	The name of the schema being created, modified or deleted.
owner	owner	SVM, applies only to SVM-scoped objects.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.
template	template	The existing schema template you want to copy.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete an existing schema

```
DELETE /name-services/ldap-schemas/{owner.uuid}/{name}
```

Introduced In: 9.11

Deletes an existing schema.

Related ONTAP commands

- `vserver services name-service ldap client schema delete`

Parameters

Name	Type	In	Required	Description
owner.uuid	string	path	True	UUID of the owner to which this object belongs.
name	string	path	True	LDAP schema name.

Response

```
Status: 200, Ok
```

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
4915204	Failed to delete. The LDAP schema is being used by at least one LDAP client configuration.
4915205	The LDAP schema is a default schema and cannot be modified or deleted.
4915217	LDAP schema is owned by the admin SVM.

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve the LDAP schema details for an owner and schema

GET /name-services/ldap-schemas/{owner.uuid}/{name}

Introduced In: 9.11

Retrieves LDAP schema details for a given owner and schema.

Related ONTAP commands

- `vserver services name-service ldap client schema show`

Parameters

Name	Type	In	Required	Description
owner.uuid	string	path	True	UUID of the owner to which this object belongs.
name	string	path	True	LDAP schema name.
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
comment	string	Comment to associate with the schema.
global_schema	boolean	A global schema that can be used by all the SVMs.
name	string	The name of the schema being created, modified or deleted.
name_mapping	ldap_schema_name_mapping	
owner	owner	SVM, applies only to SVM-scoped objects.
rfc2307	rfc2307	
rfc2307bis	rfc2307bis	
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "Schema based on Active Directory Services for UNIX (read-only).",
  "global_schema": 1,
  "name": "AD-SFU-v1",
  "name_mapping": {
    "account": {
      "unix": "windowsAccount",
      "windows": "windowsAccount"
    },
    "windows_to_unix": {
      "attribute": "windowsAccount",
      "no_domain_prefix": "",
      "object_class": "User"
    }
  },
  "owner": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "rfc2307": {
    "attribute": {
      "gecos": "name",
      "gid_number": "msSFU30GidNumber",
      "home_directory": "msSFU30HomeDirectory",
      "login_shell": "msSFU30LoginShell",
      "uid": "sAMAccountName",
      "uid_number": "msSFU30UidNumber",
      "user_password": "msSFU30Password"
    },
    "cn": {
      "group": "cn",
      "netgroup": "name"
    }
  },
}
```

```

"member": {
  "nis_netgroup": "msSFU30MemberNisNetgroup",
  "uid": "msSFU30MemberUid"
},
"nis": {
  "mapentry": "msSFU30NisMapEntry",
  "mapname": "msSFU30NisMapName",
  "netgroup": "msSFU30NisNetGroup",
  "netgroup_triple": "msSFU30MemberOfNisNetgroup",
  "object": "msSFU30NisObject"
},
"posix": {
  "account": "User",
  "group": "Group"
}
},
"rfc2307bis": {
  "enabled": "",
  "group_of_unique_names": "groupOfUniqueNames",
  "maximum_groups": 256,
  "unique_member": "uniqueMember"
},
"scope": "string"
}

```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

ldap_schema_account

Name	Type	Description
unix	string	Attribute name used to retrieve UNIX account information.
windows	string	Attribute name used to retrieve Windows account information for a UNIX user account.

windows_to_unix

Name	Type	Description
attribute	string	Attribute name used to retrieve the UNIX account information for a Windows user account.
no_domain_prefix	boolean	Indicates whether or not the name for Windows to UNIX name mapping should have a domain prefix.
object_class	string	Name used to represent the windowsToUnix object class.

ldap_schema_name_mapping

Name	Type	Description
account	ldap_schema_account	
windows_to_unix	windows_to_unix	

owner

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

attribute

Name	Type	Description
gecos	string	RFC 2307 geCos attribute.
gid_number	string	RFC 2307 gidNumber attribute.
home_directory	string	RFC 2307 homeDirectory attribute.
login_shell	string	RFC 2307 loginShell attribute.
uid	string	RFC 1274 userid attribute used by RFC 2307 as UID.
uid_number	string	RFC 2307 uidNumber attribute.
user_password	string	RFC 2256 userPassword attribute used by RFC 2307.

cn

Name	Type	Description
group	string	RFC 2256 cn attribute used by RFC 2307 when working with groups.
netgroup	string	RFC 2256 cn attribute used by RFC 2307 when working with netgroups.

member

Name	Type	Description
nis_netgroup	string	RFC 2307 memberNisNetgroup attribute.
uid	string	RFC 2307 memberUid attribute.

nis

Name	Type	Description
mapentry	string	RFC 2307 nisMapEntry attribute.
mapname	string	RFC 2307 nisMapName attribute.
netgroup	string	RFC 2307 nisNetgroup object class.
netgroup_triple	string	RFC 2307 nisNetgroupTriple attribute.
object	string	RFC 2307 nisObject object class.

posix

Name	Type	Description
account	string	RFC 2307 posixAccount object class.
group	string	RFC 2307 posixGroup object class.

rfc2307

Name	Type	Description
attribute	attribute	
cn	cn	
member	member	
nis	nis	
posix	posix	

rfc2307bis

Name	Type	Description
enabled	boolean	Indicates whether RFC 2307bis is enabled for the client schema.
group_of_unique_names	string	RFC 2307bis groupOfUniqueNames object class.
maximum_groups	integer	Maximum number of groups supported when RFC 2307bis is enabled.
unique_member	string	RFC 2307bis uniqueMember attribute.

template

The existing schema template you want to copy.

Name	Type	Description
_links	_links	
name	string	The name of the schema.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update the LDAP schema details for an owner and schema

PATCH /name-services/ldap-schemas/{owner.uuid}/{name}

Introduced In: 9.11

Updates LDAP schema details for a given owner and schema.

Important notes

- The default LDAP schemas provided by ONTAP cannot be modified.
- LDAP schemas can only be modified by the owner of the schema.

Related ONTAP commands

- `vserver services name-service ldap client schema modify`

Parameters

Name	Type	In	Required	Description
owner.uuid	string	path	True	UUID of the owner to which this object belongs.
name	string	path	True	LDAP schema name.

Request Body

Name	Type	Description
comment	string	Comment to associate with the schema.
global_schema	boolean	A global schema that can be used by all the SVMs.
name_mapping	ldap_schema_name_mapping	
rfc2307	rfc2307	
rfc2307bis	rfc2307bis	
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

Example request

```
{
  "comment": "Schema based on Active Directory Services for UNIX (read-only).",
  "global_schema": 1,
  "name_mapping": {
    "account": {
      "unix": "windowsAccount",
      "windows": "windowsAccount"
    },
    "windows_to_unix": {
      "attribute": "windowsAccount",
      "no_domain_prefix": "",
      "object_class": "User"
    }
  },
  "rfc2307": {
    "attribute": {
      "gecos": "name",
      "gid_number": "msSFU30GidNumber",
      "home_directory": "msSFU30HomeDirectory",
      "login_shell": "msSFU30LoginShell",
      "uid": "sAMAccountName",
      "uid_number": "msSFU30UidNumber",
      "user_password": "msSFU30Password"
    },
    "cn": {
      "group": "cn",
      "netgroup": "name"
    },
    "member": {
      "nis_netgroup": "msSFU30MemberNisNetgroup",
      "uid": "msSFU30MemberUid"
    },
    "nis": {
      "mapentry": "msSFU30NisMapEntry",
      "mapname": "msSFU30NisMapName",
      "netgroup": "msSFU30NisNetGroup",
      "netgroup_triple": "msSFU30MemberOfNisNetgroup",
      "object": "msSFU30NisObject"
    },
    "posix": {
      "account": "User",
      "group": "Group"
    }
  }
}
```

```
    },
    "rfc2307bis": {
      "enabled": "",
      "group_of_unique_names": "groupOfUniqueNames",
      "maximum_groups": 256,
      "unique_member": "uniqueMember"
    },
    "scope": "string"
  }
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
4915205	The LDAP schema is a default schema and cannot be modified or deleted.
4915217	LDAP schema is owned by the admin SVM.
4915223	LDAP schema does not belong to the admin SVM.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

ldap_schema_account

Name	Type	Description
unix	string	Attribute name used to retrieve UNIX account information.
windows	string	Attribute name used to retrieve Windows account information for a UNIX user account.

windows_to_unix

Name	Type	Description
attribute	string	Attribute name used to retrieve the UNIX account information for a Windows user account.
no_domain_prefix	boolean	Indicates whether or not the name for Windows to UNIX name mapping should have a domain prefix.
object_class	string	Name used to represent the windowsToUnix object class.

ldap_schema_name_mapping

Name	Type	Description
account	ldap_schema_account	
windows_to_unix	windows_to_unix	

owner

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

attribute

Name	Type	Description
gecos	string	RFC 2307 gecos attribute.
gid_number	string	RFC 2307 gidNumber attribute.
home_directory	string	RFC 2307 homeDirectory attribute.
login_shell	string	RFC 2307 loginShell attribute.
uid	string	RFC 1274 userid attribute used by RFC 2307 as UID.
uid_number	string	RFC 2307 uidNumber attribute.
user_password	string	RFC 2256 userPassword attribute used by RFC 2307.

cn

Name	Type	Description
group	string	RFC 2256 cn attribute used by RFC 2307 when working with groups.
netgroup	string	RFC 2256 cn attribute used by RFC 2307 when working with netgroups.

member

Name	Type	Description
nis_netgroup	string	RFC 2307 memberNisNetgroup attribute.
uid	string	RFC 2307 memberUid attribute.

nis

Name	Type	Description
mapentry	string	RFC 2307 nisMapEntry attribute.
mapname	string	RFC 2307 nisMapName attribute.
netgroup	string	RFC 2307 nisNetgroup object class.
netgroup_triple	string	RFC 2307 nisNetgroupTriple attribute.
object	string	RFC 2307 nisObject object class.

posix

Name	Type	Description
account	string	RFC 2307 posixAccount object class.
group	string	RFC 2307 posixGroup object class.

rfc2307

Name	Type	Description
attribute	attribute	
cn	cn	
member	member	
nis	nis	
posix	posix	

rfc2307bis

Name	Type	Description
enabled	boolean	Indicates whether RFC 2307bis is enabled for the client schema.
group_of_unique_names	string	RFC 2307bis groupOfUniqueNames object class.
maximum_groups	integer	Maximum number of groups supported when RFC 2307bis is enabled.
unique_member	string	RFC 2307bis uniqueMember attribute.

template

The existing schema template you want to copy.

Name	Type	Description
name	string	The name of the schema.

ldap_schema

Name	Type	Description
comment	string	Comment to associate with the schema.
global_schema	boolean	A global schema that can be used by all the SVMs.
name_mapping	ldap_schema_name_mapping	
rfc2307	rfc2307	
rfc2307bis	rfc2307bis	
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

error_arguments

Name	Type	Description
code	string	Argument code

Name	Type	Description
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage local mapping for hostnames

Name-services local-hosts endpoint overview

Overview

Displays and manages local mapping for hostnames.

Retrieving all hosts table entries

The local-hosts GET endpoint to retrieve all hosts table entries.

Examples

Retrieving all the fields of all hosts table entries.

```
# The API:
GET /api/name-services/local-hosts

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/local-hosts?return_records=true&return_timeout=15&fields=*" -H "accept: application/hal+json"

# The response:
{
  "records": [
    {
```

```

"owner": {
  "uuid": "6cdf045c-87ae-11eb-a56a-0050568e0287",
  "name": "svm1",
  "_links": {
    "self": {
      "href": "/api/svm/svms/6cdf045c-87ae-11eb-a56a-0050568e0287"
    }
  }
},
"address": "1.1.1.1",
"hostname": "host.sales.foo.com",
"aliases": [
  "host1.sales.foo.com",
  "host2.sakes.foo.com"
],
"_links": {
  "self": {
    "href": "/api/name-services/local-hosts/6cdf045c-87ae-11eb-a56a-0050568e0287/1.1.1.1"
  }
}
},
{
  "owner": {
    "uuid": "9d080552-7bff-11eb-a56a-0050568e0287",
    "name": "svm2",
    "_links": {
      "self": {
        "href": "/api/svm/svms/9d080552-7bff-11eb-a56a-0050568e0287"
      }
    }
  },
  "address": "2.2.2.2",
  "hostname": "samplehost2",
  "_links": {
    "self": {
      "href": "/api/name-services/local-hosts/9d080552-7bff-11eb-a56a-0050568e0287/2.2.2.2"
    }
  }
},
"num_records": 2,
"_links": {
  "self": {
    "href": "/api/name-services/local-

```

```
hosts?return_records=true&return_timeout=15&fields=*"
}
}
}
```

Retrieving the hosts table entry of a given svm and address(ipv4/ipv6).

```
# The API:
GET /api/name-services/local-hosts/{owner.uuid}/{address}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/local-hosts/9d080552-7bff-11eb-a56a-0050568e0287/3.3.3.3" -H "accept: application/hal+json"

# The response:
{
  "owner": {
    "uuid": "9d080552-7bff-11eb-a56a-0050568e0287",
    "name": "svm1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/9d080552-7bff-11eb-a56a-0050568e0287"
      }
    }
  },
  "address": "3.3.3.3",
  "hostname": "samplehost3",
  "aliases": [
    "host1.sales.foo.com",
    "host2.sakes.foo.com"
  ],
  "_links": {
    "self": {
      "href": "/api/name-services/local-hosts/9d080552-7bff-11eb-a56a-0050568e0287/3.3.3.3"
    }
  }
}
```

Creating a hosts table entry

The local-hosts POST endpoint creates a new hosts table entry.

Examples

Creating a hosts table entry with all fields.

```
# The API:
POST /api/name-services/local-hosts

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/local-
hosts?return_records=false" -H "accept: application/json" -H "Content-
Type: application/json" -d "{ \"address\": \"3.3.3.3\", \"aliases\": [
\"host1.sales.foo.com\", \"host2.sakes.foo.com\" ],
\"hostname\": \"samplehost3\", \"owner\": { \"name\": \"svm2\", \"uuid\":
\"9d080552-7bff-11eb-a56a-0050568e0287\" }}"
```

Creating a hosts table entry with only required fields.

```
# The API:
POST /api/name-services/local-hosts

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/local-
hosts?return_records=false" -H "accept: application/json" -H "Content-
Type: application/json" -d "{ \"address\": \"123.123.123.12\",
\"hostname\": \"host.sales.foo.com\", \"owner\": { \"name\": \"svm2\",
\"uuid\": \"9d080552-7bff-11eb-a56a-0050568e0287\" }}"
```

Updating a hosts table entry

The local-hosts PATCH endpoint updates an existing hosts table entry.

Example

Updating aliases and hostname of a given svm and address(ipv4/ipv6).

```
# The API:
PATCH /api/name-services/local-hosts/{owner.uuid}/{address}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/local-hosts/9d080552-7bff-11eb-a56a-0050568e0287/123.123.123.123" -H "accept: application/json" -H "Content-Type: application/json" -d '{"aliases": [\"host1.sales.foo.com\", \"host2.sakes.foo.com\" ], \"hostname\": \"host.sales.foo.com\"}'
```

Deleting a hosts table entry

The local-hosts DELETE endpoint deletes an existing hosts table entry.

Example

Deleting the hosts table entry of a given svm and address(ipv4/ipv6).

```
# The API:
DELETE /api/name-services/local-hosts/{owner.uuid}/{address}

#The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/local-hosts/9d080552-7bff-11eb-a56a-0050568e0287/1.1.1.1" -H "accept: application/json"
```

Retrieve IP to hostname mappings for all SVMs in a cluster

GET /name-services/local-hosts

Introduced In: 9.10

Retrieves all IP to hostname mappings for all SVMs of the cluster.

Related ONTAP commands

- `vserver services name-service dns hosts show`

Learn more

- [DOC /name-services/local-hosts](#)

Parameters

Name	Type	In	Required	Description
owner.name	string	query	False	Filter by owner.name
owner.uuid	string	query	False	Filter by owner.uuid
aliases	string	query	False	Filter by aliases
address	string	query	False	Filter by address
hostname	string	query	False	Filter by hostname • maxLength: 255 • minLength: 1
scope	string	query	False	Filter by scope
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of hosts to IP records.
records	array[local_host]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "address": "123.123.123.123",
      "aliases": [
        "host1.sales.foo.com",
        "host2.sakes.foo.com"
      ],
      "hostname": "host.sales.foo.com",
      "owner": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "scope": "string"
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

owner

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

local_host

Name	Type	Description
_links	_links	
address	string	IPv4/IPv6 address in dotted form.
aliases	array[string]	The list of aliases.
hostname	string	Canonical hostname.
owner	owner	SVM, applies only to SVM-scoped objects.

Name	Type	Description
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Create a new IP to hostname mapping

POST /name-services/local-hosts

Introduced In: 9.10

Creates a new cluster-scoped or SVM-scoped IP to hostname mapping. For SVM-scoped mappings, include either the SVM name as `owner.name` or the SVM UUID as `owner.uuid` in the request body, along with other necessary parameters. For cluster-scoped mappings, specifying `owner.uuid` or `owner.name` is not required.

Required properties

- `address` - IPv4/IPv6 address in dotted form.
- `hostname` - Canonical hostname.

Optional properties

- `owner.uuid` or `owner.name` - Specify the name or UUID of an existing SVM to create an SVM-scoped IP-to-host mapping.

- `aliases` - The list of aliases.

Related ONTAP commands

- `vserver services name-service dns hosts create`

Learn more

- [DOC /name-services/local-hosts](#)

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
address	string	IPv4/IPv6 address in dotted form.
aliases	array[string]	The list of aliases.
hostname	string	Canonical hostname.
owner	owner	SVM, applies only to SVM-scoped objects.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

Example request

```
{
  "address": "123.123.123.123",
  "aliases": [
    "host1.sales.foo.com",
    "host2.sakes.foo.com"
  ],
  "hostname": "host.sales.foo.com",
  "owner": {
    "name": "svml",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "scope": "string"
}
```

Response

Status: 201, Created

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
1377682	IPv6 is not enabled in the cluster.
1966253	IPv6 is not enabled in the cluster. Enable IPv6 using command "network options ipv6 modify -enabled true" and try again.
2621706	The specified owner UUID is incorrect for the specified owner name.
8912896	Only admin or data Vservers allowed.

Error Code	Description
23724055	Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support.
23724155	The specified IPv4 address is not supported because it is one of the following: multicast, loopback, 0.0.0.0, or broadcast.
23724156	The specified IPv6 address is not supported because it is one of the following: ::, link-local, multicast, v4-compatible, v4-mapped, or loopback.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

owner

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

local_host

Name	Type	Description
address	string	IPv4/IPv6 address in dotted form.
aliases	array[string]	The list of aliases.
hostname	string	Canonical hostname.
owner	owner	SVM, applies only to SVM-scoped objects.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete an existing host object

DELETE /name-services/local-hosts/{owner.uuid}/{address}

Introduced In: 9.10

Deletes an existing host object.

Related ONTAP commands

- `vserver services name-service dns hosts delete`

Learn more

- [DOC /name-services/local-hosts](#)

Parameters

Name	Type	In	Required	Description
owner.uuid	string	path	True	UUID of the owner to which this object belongs.
address	string	path	True	The IP address.

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
23724055	Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve a hostname mapping for an SVM

GET /name-services/local-hosts/{owner.uuid}/{address}

Introduced In: 9.10

For a specified SVM and IP address, returns the corresponding IP to hostname mapping.

Related ONTAP commands

- `vserver services name-service dns hosts show`

Learn more

- [DOC /name-services/local-hosts](#)

Parameters

Name	Type	In	Required	Description
owner.uuid	string	path	True	UUID of the owner to which this object belongs.
address	string	path	True	The IP address.

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
address	string	IPv4/IPv6 address in dotted form.
aliases	array[string]	The list of aliases.
hostname	string	Canonical hostname.
owner	owner	SVM, applies only to SVM-scoped objects.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "address": "123.123.123.123",
  "aliases": [
    "host1.sales.foo.com",
    "host2.sakes.foo.com"
  ],
  "hostname": "host.sales.foo.com",
  "owner": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"scope": "string"
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

owner

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update a hostname mapping for an SVM

PATCH /name-services/local-hosts/{owner.uuid}/{address}

Introduced In: 9.10

For a specified SVM and IP address, modifies the corresponding IP to hostname mapping.

Related ONTAP commands

- `vserver services name-service dns hosts modify`

Learn more

- [DOC /name-services/local-hosts](#)

Parameters

Name	Type	In	Required	Description
owner.uuid	string	path	True	UUID of the owner to which this object belongs.
address	string	path	True	The IP address.

Request Body

Name	Type	Description
aliases	array[string]	The list of aliases.
hostname	string	Canonical hostname.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

Example request

```
{
  "aliases": [
    "host1.sales.foo.com",
    "host2.sakes.foo.com"
  ],
  "hostname": "host.sales.foo.com",
  "scope": "string"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
23724055	Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

owner

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

local_host

Name	Type	Description
aliases	array[string]	The list of aliases.
hostname	string	Canonical hostname.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage name mappings for SVMs

Name-services name-mappings endpoint overview

Overview

Name mapping is used to map CIFS identities to UNIX identities, Kerberos identities to UNIX identities, and UNIX identities to CIFS identities. It needs this information to obtain user credentials and provide proper file access regardless of whether they are connecting from an NFS client or a CIFS client.

The system keeps a set of conversion rules for each Storage Virtual Machine (SVM). Each rule consists of two pieces: a pattern and a replacement. Conversions start at the beginning of the appropriate list and perform a substitution based on the first matching rule. The pattern is a UNIX-style regular expression. The replacement is a string containing escape sequences representing subexpressions from the pattern, as in the UNIX sed program.

Name mappings are applied in the order in which they occur in the priority list; for example, a name mapping that occurs at position 2 in the priority list is applied before a name mapping that occurs at position 3. Each mapping direction (Kerberos-to-UNIX, Windows-to-UNIX, and UNIX-to-Windows) has its own priority list. You are prevented from creating two name mappings with the same pattern.

Examples

Creating a name-mapping with `client_match` as the ip-address

Use the following API to create a name-mapping. Note the *return_records=true* query parameter is used to obtain the newly created entry in the response.

```
# The API:
POST /api//name-services/name-mappings

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/name-
mappings?return_records=true" -H "accept: application/json" -H "Content-
Type: application/json" -d "{ \"client_match\": \"10.254.101.111/28\",
\"direction\": \"win_unix\", \"index\": 1, \"pattern\":
\"ENGCIIFS_AD_USER\", \"replacement\": \"unix_user1\", \"svm\": { \"name\":
\"vs1\", \"uuid\": \"f71d3640-0226-11e9-8526-000c290a8c4b\" } }"

# The response:
{
  "num_records": 1,
  "records": [
    {
      "svm": {
        "uuid": "f71d3640-0226-11e9-8526-000c290a8c4b",
        "name": "vs1"
      },
      "direction": "win_unix",
      "index": 1,
      "pattern": "ENGCIIFS_AD_USER",
      "replacement": "unix_user1",
      "client_match": "10.254.101.111/28"
    }
  ]
}
```

Creating a name-mapping with client_match as the hostname

Use the following API to create a name-mapping. Note the *return_records=true* query parameter is used to obtain the newly created entry in the response.

```
# The API:
POST /api//name-services/name-mappings

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/name-
mappings?return_records=true" -H "accept: application/json" -H "Content-
Type: application/json" -d '{"client_match\: \"google.com\",
\"direction\: \"win_unix\", \"index\: 2, \"pattern\:
\"ENGCIIFS_AD_USER\", \"replacement\: \"unix_user1\", \"svm\: { \"name\:
\"vs1\", \"uuid\: \"f71d3640-0226-11e9-8526-000c290a8c4b\" } }"'

# The response:
{
  "num_records": 1,
  "records": [
    {
      "svm": {
        "uuid": "f71d3640-0226-11e9-8526-000c290a8c4b",
        "name": "vs1"
      },
      "direction": "win_unix",
      "index": 2,
      "pattern": "ENGCIIFS_AD_USER",
      "replacement": "unix_user1",
      "client_match": "google.com"
    }
  ]
}
```

Retrieving all name-mapping configurations for all SVMs in the cluster

```

# The API:
GET /api/name-services/name-mappings

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/name-
mappings?fields=*&return_records=true&return_timeout=15" -H "accept:
application/json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "f71d3640-0226-11e9-8526-000c290a8c4b",
        "name": "vs1"
      },
      "direction": "win_unix",
      "index": 1,
      "pattern": "ENGCIIFS_AD_USER",
      "replacement": "unix_user1",
      "client_match": "10.254.101.111/28"
    },
    {
      "svm": {
        "uuid": "f71d3640-0226-11e9-8526-000c290a8c4b",
        "name": "vs1"
      },
      "direction": "win_unix",
      "index": 2,
      "pattern": "ENGCIIFS_AD_USER",
      "replacement": "unix_user1",
      "client_match": "google.com"
    }
  ],
  "num_records": 2
}

```

Retrieving a name-mapping configuration for a specific SVM, and for the specified direction and index

```
# The API:
GET /api/name-services/name-mappings/{svm.uuid}/{direction}/{index}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/name-mappings/f71d3640-0226-11e9-8526-000c290a8c4b/win_unix/1" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "f71d3640-0226-11e9-8526-000c290a8c4b",
    "name": "vs1"
  },
  "direction": "win_unix",
  "index": 1,
  "pattern": "ENGCIIFS_AD_USER",
  "replacement": "unix_user1",
  "client_match": "10.254.101.111/28"
}
```

Updating a specific name-mapping configuration

```
# The API:
PATCH /api//name-services/name-mappings/{svm.uuid}/{direction}/{index}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/name-mappings/f71d3640-0226-11e9-8526-000c290a8c4b/win_unix/1" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"client_match\": \"10.254.101.222/28\", \"pattern\": \"ENGCIIFS_LOCAL_USER\", \"replacement\": \"pcuser\"}"

# swapping a specified namemapping entry by index
curl -X PATCH "https://<mgmt-ip>/api/name-services/name-mappings/f71d3640-0226-11e9-8526-000c290a8c4b/win-unix/3?new_index=1" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"pattern\": \"ENGCIIFS_AD_USER\", \"replacement\": \"unix_user1\"}"
```

```
# The API:
DELETE /api/name-services/name-mappings/{svm.uuid}/{direction}/{index}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/name-mappings/f71d3640-0226-11e9-8526-000c290a8c4b/win_unix/1" -H "accept: application/json"
```

Retrieve the hostname mapping for all SVMs

GET /name-services/name-mappings

Introduced In: 9.6

Retrieves the name mapping configuration for all SVMs.

Related ONTAP commands

- `vserver name-mapping show`

Learn more

- [DOC /name-services/name-mappings](#)

Parameters

Name	Type	In	Required	Description
direction	string	query	False	Filter by direction
index	integer	query	False	Filter by index • Max value: 2147483647 • Min value: 1
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
client_match	string	query	False	Filter by client_match

Name	Type	In	Required	Description
replacement	string	query	False	Filter by replacement • maxLength: 256 • minLength: 1
pattern	string	query	False	Filter by pattern • maxLength: 256 • minLength: 1
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Max value: 120 • Min value: 0 • Default value: 1
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of records
records	array[name_mapping]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "client_match": "10.254.101.111/28",
      "direction": "win_unix",
      "index": 1,
      "pattern": "ENGCIIFS_AD_USER",
      "replacement": "unix_user1",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

name_mapping

Name mapping is used to map CIFS identities to UNIX identities, Kerberos identities to UNIX identities, UNIX identities to CIFS identities, S3 to UNIX identities and S3 to CIFS identities. It needs this information to obtain user credentials and provide proper file access regardless of whether they are connecting from an NFS client, CIFS client or an S3 client.

Name	Type	Description
_links	_links	

Name	Type	Description
client_match	string	Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats: • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname
direction	string	Direction in which the name mapping is applied. The possible values are: • krb_unix - Kerberos principal name to UNIX user name • win_unix - Windows user name to UNIX user name • unix_win - UNIX user name to Windows user name mapping • s3_unix - S3 user name to UNIX user name mapping • s3_win - S3 user name to Windows user name mapping
index	integer	Position in the list of name mappings.

Name	Type	Description
pattern	string	Pattern used to match the name while searching for a name that can be used as a replacement. The pattern is a UNIX-style regular expression. Regular expressions are case-insensitive when mapping from Windows to UNIX, and they are case-sensitive for mappings from Kerberos to UNIX and UNIX to Windows.
replacement	string	The name that is used as a replacement, if the pattern associated with this entry matches.
svm	svm	SVM, applies only to SVM-scoped objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Create hostname mappings for an SVM

POST /name-services/name-mappings

Introduced In: 9.6

Creates name mappings for an SVM.

Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the name mapping.
- `index` - Name mapping's position in the priority list.
- `direction` - Direction of the name mapping.
- `pattern` - Pattern to match to. Maximum length is 256 characters.
- `replacement` - Replacement pattern to match to. Maximum length is 256 characters.

Recommended optional properties

- `client_match` - Hostname or IP address added to match the pattern to the client's workstation IP address.

Related ONTAP commands

- `vserver name-mapping create`

Learn more

- [DOC /name-services/name-mappings](#)

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
client_match	string	Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats: • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname
direction	string	Direction in which the name mapping is applied. The possible values are: • krb_unix - Kerberos principal name to UNIX user name • win_unix - Windows user name to UNIX user name • unix_win - UNIX user name to Windows user name mapping • s3_unix - S3 user name to UNIX user name mapping • s3_win - S3 user name to Windows user name mapping
index	integer	Position in the list of name mappings.
pattern	string	Pattern used to match the name while searching for a name that can be used as a replacement. The pattern is a UNIX-style regular expression. Regular expressions are case-insensitive when mapping from Windows to UNIX, and they are case-sensitive for mappings from Kerberos to UNIX and UNIX to Windows.

Name	Type	Description
replacement	string	The name that is used as a replacement, if the pattern associated with this entry matches.
svm	svm	SVM, applies only to SVM-scoped objects.

Example request

```
{
  "client_match": "10.254.101.111/28",
  "direction": "win_unix",
  "index": 1,
  "pattern": "ENGCIFS_AD_USER",
  "replacement": "unix_user1",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 201, Created

Name	Type	Description
num_records	integer	Number of records
records	array[name_mapping]	

Example response

```
{
  "num_records": 1,
  "records": [
    {
      "client_match": "10.254.101.111/28",
      "direction": "win_unix",
      "index": 1,
      "pattern": "ENGCIIFS_AD_USER",
      "replacement": "unix_user1",
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
65798185	Failed to resolve the specified hostname
65798173	The name mapping pattern already exists with a more generic IP qualifier
65798149	Invalid index for the name mapping entry
2621706	The specified svm.uuid and svm.name refer to different SVMs

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

name_mapping

Name mapping is used to map CIFS identities to UNIX identities, Kerberos identities to UNIX identities, UNIX identities to CIFS identities, S3 to UNIX identities and S3 to CIFS identities. It needs this information to obtain user credentials and provide proper file access regardless of whether they are connecting from an NFS client, CIFS client or an S3 client.

Name	Type	Description
client_match	string	Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats: • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname

Name	Type	Description
direction	string	Direction in which the name mapping is applied. The possible values are: • krb_unix - Kerberos principal name to UNIX user name • win_unix - Windows user name to UNIX user name • unix_win - UNIX user name to Windows user name mapping • s3_unix - S3 user name to UNIX user name mapping • s3_win - S3 user name to Windows user name mapping
index	integer	Position in the list of name mappings.
pattern	string	Pattern used to match the name while searching for a name that can be used as a replacement. The pattern is a UNIX-style regular expression. Regular expressions are case-insensitive when mapping from Windows to UNIX, and they are case-sensitive for mappings from Kerberos to UNIX and UNIX to Windows.
replacement	string	The name that is used as a replacement, if the pattern associated with this entry matches.
svm	svm	SVM, applies only to SVM-scoped objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete the name mapping configuration

DELETE /name-services/name-mappings/{svm.uuid}/{direction}/{index}

Introduced In: 9.6

Deletes the name mapping configuration.

Related ONTAP commands

- `vserver name-mapping delete`

Learn more

- [DOC /name-services/name-mappings](#)

Parameters

Name	Type	In	Required	Description
direction	string	path	True	Direction
index	integer	path	True	Position of the entry in the list
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

Status: 200, Ok

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve the name mapping configuration for an SVM

GET /name-services/name-mappings/{svm.uuid}/{direction}/{index}

Introduced In: 9.6

Retrieves the name mapping configuration of an SVM.

Related ONTAP commands

- `vserver name-mapping show`

Learn more

- [DOC /name-services/name-mappings](#)

Parameters

Name	Type	In	Required	Description
direction	string	path	True	Direction
index	integer	path	True	Position of the entry in the list

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
client_match	string	Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats: • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname

Name	Type	Description
direction	string	Direction in which the name mapping is applied. The possible values are: • krb_unix - Kerberos principal name to UNIX user name • win_unix - Windows user name to UNIX user name • unix_win - UNIX user name to Windows user name mapping • s3_unix - S3 user name to UNIX user name mapping • s3_win - S3 user name to Windows user name mapping
index	integer	Position in the list of name mappings.
pattern	string	Pattern used to match the name while searching for a name that can be used as a replacement. The pattern is a UNIX-style regular expression. Regular expressions are case-insensitive when mapping from Windows to UNIX, and they are case-sensitive for mappings from Kerberos to UNIX and UNIX to Windows.
replacement	string	The name that is used as a replacement, if the pattern associated with this entry matches.
svm	svm	SVM, applies only to SVM-scoped objects.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "client_match": "10.254.101.111/28",
  "direction": "win_unix",
  "index": 1,
  "pattern": "ENGCIIFS_AD_USER",
  "replacement": "unix_user1",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update the name mapping configuration for an SVM

PATCH /name-services/name-mappings/{svm.uuid}/{direction}/{index}

Introduced In: 9.6

Updates the name mapping configuration of an SVM. The positions can be swapped by providing the `new_index` property. Swapping is not allowed for entries that have `client_match` property configured.

Related ONTAP commands

- `vserver name-mapping modify`
- `vserver name-mapping swap`

Learn more

- [DOC /name-services/name-mappings](#)

Parameters

Name	Type	In	Required	Description
direction	string	path	True	Direction
index	integer	path	True	Position of the entry in the list
new_index	integer	query	False	New position of the Index after a swap is completed. • Introduced in: 9.7
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
client_match	string	Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats: • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname
pattern	string	Pattern used to match the name while searching for a name that can be used as a replacement. The pattern is a UNIX-style regular expression. Regular expressions are case-insensitive when mapping from Windows to UNIX, and they are case-sensitive for mappings from Kerberos to UNIX and UNIX to Windows.
replacement	string	The name that is used as a replacement, if the pattern associated with this entry matches.

Example request

```
{
  "client_match": "10.254.101.111/28",
  "pattern": "ENGCIIFS_AD_USER",
  "replacement": "unix_user1"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
65798185	Failed to resolve the specified hostname
65798179	Cannot swap entries because one or both entries have host name or address configured.
	Delete and re-create the new entry at the specified position.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

name_mapping

Name mapping is used to map CIFS identities to UNIX identities, Kerberos identities to UNIX identities, UNIX identities to CIFS identities, S3 to UNIX identities and S3 to CIFS identities. It needs this information to obtain user credentials and provide proper file access regardless of whether they are connecting from an NFS client, CIFS client or an S3 client.

Name	Type	Description
client_match	string	Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats: • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname

Name	Type	Description
pattern	string	Pattern used to match the name while searching for a name that can be used as a replacement. The pattern is a UNIX-style regular expression. Regular expressions are case-insensitive when mapping from Windows to UNIX, and they are case-sensitive for mappings from Kerberos to UNIX and UNIX to Windows.
replacement	string	The name that is used as a replacement, if the pattern associated with this entry matches.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Display netgroup file details

Name-services netgroup-files svm.uuid endpoint overview

Overview

Displays the netgroup file details or raw netgroup file of an SVM. Note: The GET collection endpoint is not supported for netgroup files.

Examples

Retrieving the netgroup file status of a given SVM

```
# The API:
GET /api/name-services/netgroup-files/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/netgroup-files/53942195-1709-11ec-b0d4-0050568efd14" -H "accept: application/hal+json"

# The response:
{
  "svm": {
    "uuid": "53942195-1709-11ec-b0d4-0050568efd14",
    "name": "svm1"
  },
  "timestamp": "2021-10-04T13:05:06+05:30",
  "hash_value": "729b6e43cee04bcee18efa3aa689881d",
  "hash_value_by_host": "eb109a44056a47bdeb4b407ec821a14b",
  "file_size": 5118686
}
```

Retrieving the raw netgroup file of a given SVM

```
# The API:
GET /api/name-services/netgroup-files/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/netgroup-files/53942195-1709-11ec-b0d4-0050568efd14" -H "accept: multipart/form-data"
```

Deleting a netgroup file of a given SVM

```
# The API:
DELETE /api/name-services/netgroup-files/{svm.uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/netgroup-
files/53942195-1709-11ec-b0d4-0050568efd14" -H "accept: application/json"
```

Delete a netgroup file for an SVM

DELETE /name-services/netgroup-files/{svm.uuid}

Introduced In: 9.11

Deletes the netgroup file for a given SVM.

Related ONTAP commands

- `vserver services name-service netgroup file delete`

Learn more

- [DOC /name-services/netgroup-files/{svm.uuid}](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

Status: 200, Ok

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve the netgroup file details

GET /name-services/netgroup-files/{svm.uuid}

Introduced In: 9.11

Retrieves the netgroup file details for a given SVM if the header is set as "accept: application/json". If the header is set as "accept: multipart/form-data", the raw netgroup file of the given SVM is retrieved.

Important notes

- For a raw netgroup file, set the header as "accept: multipart/form-data" else "accept: application/json" for netgroup file details.
- Maximum size supported for raw netgroup file is 5MB, but netgroup file details of any valid SVM can be retrieved if present.

Related ONTAP commands

- `vserver services name-service netgroup status`
- `vserver services name-service netgroup file show`

Learn more

- [DOC /name-services/netgroup-files/{svm.uuid}](#)

Parameters

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
file_size	integer	File size of the netgroup definitions file in bytes.
hash_value	string	Hash value of the netgroup definitions.
hash_value_by_host	string	Hash value of the netgroup-by-host database.

Name	Type	Description
svm	svm	SVM, applies only to SVM-scoped objects.
timestamp	string	Load time for netgroup definitions.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "file_size": 5118686,
  "hash_value": "e53ec87782356bd6786f146ce0a48449",
  "hash_value_by_host": "e012b7f62e4810936725ed1239018314",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "timestamp": "string"
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage NIS server configurations

Name-services NIS endpoint overview

Overview

NIS servers are used to authenticate user and client computers. NIS domain name and NIS server information is required to configure NIS. It is important to note that this API is used to retrieve and manage NIS server configurations for data SVMs only. NIS configuration for the cluster is managed via </api/security/authentication/cluster/nis> .

Retrieving NIS Information

The NIS GET endpoint retrieves all of the NIS configurations for data SVMs.

Examples

Retrieving all fields for all NIS configurations

```
# The API:
/api/name-services/nis

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/nis?fields=*" -H "accept:
application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
          }
        }
      },
      "domain": "domainA.example.com",
      "servers": [
        "10.10.10.10",
        "example.com"
      ],
      "bound-servers": [
        "10.10.10.10"
      ]
    }
  ]
}
```

```

    ],
    "_links": {
      "self": {
        "href": "/api/name-services/nis/179d3c85-7053-11e8-b9b8-005056b41bd1"
      }
    }
  },
  {
    "svm": {
      "uuid": "6a52023b-7066-11e8-b9b8-005056b41bd1",
      "name": "vs2",
      "_links": {
        "self": {
          "href": "/api/svm/svms/6a52023b-7066-11e8-b9b8-005056b41bd1"
        }
      }
    },
    "domain": "domainB.example.com",
    "servers": [
      "2.2.2.2",
      "3.3.3.3",
      "4.4.4.4"
    ],
    "bound-servers": [],
    "_links": {
      "self": {
        "href": "/api/name-services/nis/6a52023b-7066-11e8-b9b8-005056b41bd1"
      }
    }
  }
],
"num_records": 2,
"_links": {
  "self": {
    "href": "/api/name-services/nis?fields=*"
  }
}
}

```

Retrieving all NIS configurations whose bound servers start with 10

```
# The API:
/api/name-services/nis

# The call:
curl -X GET "https://<mgmt-ip/api/name-services/nis?bound_servers=10*" -H
"accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
          }
        }
      },
      "bound-servers": [
        "10.10.10.10"
      ],
      "_links": {
        "self": {
          "href": "/api/name-services/nis/6a52023b-7066-11e8-b9b8-005056b41bd1"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/name-services/nis?bound_servers=10*"
    }
  }
}
```

Retrieving the NIS configuration of a specific SVM

```
# The API:
/api/name-services/nis/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/nis/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/hal+json"

# The response:
{
  "svm": {
    "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
    "name": "vs1"
  },
  "domain": "domainA.example.com",
  "servers": [
    "10.10.10.10",
    "example.com"
  ],
  "bound_servers": [
    "10.10.10.10"
  ]
}
```

Creating a NIS configuration

The NIS POST endpoint creates a NIS configuration for the specified SVM.

Example

The following example shows a POST operation:

```
# The API:
/api/name-services/nis

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/nis" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"svm\": { \"uuid\": \"179d3c85-7053-11e8-b9b8-005056b41bd1\" }, \"domain\": \"domainA.example.com\", \"servers\": [ \"10.10.10.10\", \"example.com\" ] }"
```

Updating the NIS configuration

The NIS PATCH endpoint updates the NIS configuration for the specified NIS server.

Examples

Updating the domain

```
# The API:
/api/name-services/nis/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/nis/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"domain\": \"domainC.example.com\", \"servers\": [ \"13.13.13.13\" ] }"
```

Updating the server

```
# The API:
/api/name-services/nis/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/nis/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"servers\": [ \"14.14.14.14\" ] }"
```

Deleting a NIS configuration

The NIS DELETE endpoint deletes the NIS configuration for the specified SVM.

Example

The following example shows a DELETE operation:

```
# The API:
/api/name-services/nis/{svm.uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/nis/179d3c85-7053-11e8-b9b8-005056b41bd1" -H "accept: application/hal+json"
```

Retrieve NIS domain configurations of all SVMs

GET /name-services/nis

Introduced In: 9.6

Retrieves NIS domain configurations of all the SVMs. The `bound_servers` field indicates the successfully bound NIS servers. Lookups and authentications fail if there are no bound servers.

Related ONTAP commands

- `vserver services name-service nis-domain show`
- `vserver services name-service nis-domain show-bound`
- `vserver services name-service nis-domain show-bound-debug`

Learn more

- [DOC /name-services/nis](#)

Parameters

Name	Type	In	Required	Description
bound_servers	string	query	False	Filter by bound_servers • maxLength: 255 • minLength: 1 • Introduced in: 9.7
domain	string	query	False	Filter by domain • maxLength: 64 • minLength: 1 • Introduced in: 9.7

Name	Type	In	Required	Description
svm.name	string	query	False	Filter by svm.name Introduced in: 9.7
svm.uuid	string	query	False	Filter by svm.uuid Introduced in: 9.7
servers	string	query	False	Filter by servers - maxLength: 255 - minLength: 1 - Introduced in: 9.7
binding_details.status.code	string	query	False	Filter by binding_details.status.code Introduced in: 9.11
binding_details.status.message	string	query	False	Filter by binding_details.status.message Introduced in: 9.11
binding_details.server	string	query	False	Filter by binding_details.server - maxLength: 255 - minLength: 1 - Introduced in: 9.11
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of NIS domain records.
records	array[nis_service]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "binding_details": [
        {
          "server": "string",
          "status": {
            "code": "string",
            "message": "string"
          }
        }
      ],
      "bound_servers": [
        "string"
      ],
      "domain": "domainA.example.com",
      "servers": [
        "10.10.10.10",
        "example.com"
      ],
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

```
]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

binding_status

Name	Type	Description
code	string	Code corresponding to the server's binding status.
message	string	Detailed description of the server's binding status.

binding_details

Name	Type	Description
server	string	Hostname/IP address of the NIS server in the domain.
status	binding_status	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.

Name	Type	Description
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

nis_service

Name	Type	Description
_links	_links	
binding_details	array[binding_details]	An array of objects where each object represents the NIS server and it's status for a given NIS domain. It is an advanced field.
bound_servers	array[string]	
domain	string	The NIS domain to which this configuration belongs.
servers	array[string]	A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration.
svm	svm	SVM, applies only to SVM-scoped objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Create the NIS domain and server configuration for a data SVM

POST /name-services/nis

Introduced In: 9.6

Creates an NIS domain and server configuration for a data SVM. NIS configuration for the cluster is managed via [/api/security/authentication/cluster/nis](#) .

Important notes

- Each SVM can have one NIS domain configuration.
- Multiple SVMs can be configured with the same NIS domain. Specify the NIS domain and NIS servers as input. Domain name and servers fields cannot be empty.
- Both FQDNs and IP addresses are supported for the servers field.
- IPv6 must be enabled if IPv6 family addresses are specified in the servers field.
- A maximum of ten NIS servers are supported.

Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the NIS configuration.
- `domain` - NIS domain to which the configuration belongs.
- `servers` - List of NIS server IP addresses.

Related ONTAP commands

- `vserver services name-service nis-domain create`

Learn more

- [DOC /name-services/nis](#)

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
binding_details	array[binding_details]	An array of objects where each object represents the NIS server and it's status for a given NIS domain. It is an advanced field.
bound_servers	array[string]	
domain	string	The NIS domain to which this configuration belongs.
servers	array[string]	A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration.
svm	svm	SVM, applies only to SVM-scoped objects.

Example request

```
{
  "binding_details": [
    {
      "server": "string",
      "status": {
        "code": "string",
        "message": "string"
      }
    }
  ],
  "bound_servers": [
    "string"
  ],
  "domain": "domainA.example.com",
  "servers": [
    "10.10.10.10",
    "example.com"
  ],
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 201, Created

Name	Type	Description
num_records	integer	Number of NIS domain records.
records	array[nis_service]	

Example response

```
{
  "num_records": 1,
  "records": [
    {
      "binding_details": [
        {
          "server": "string",
          "status": {
            "code": "string",
            "message": "string"
          }
        }
      ],
      "bound_servers": [
        "string"
      ],
      "domain": "domainA.example.com",
      "servers": [
        "10.10.10.10",
        "example.com"
      ],
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
1966253	IPv6 is not enabled in the cluster
2621488	Invalid SVM context
2621706	The specified SVM UUID is incorrect for the specified SVM name
3276964	NIS domain name or NIS server domain is too long. The maximum supported for domain name is 64 characters and the maximum supported for NIS server domain is 255 characters
3276933	A maximum of 10 NIS servers can be configured per SVM
13434916	The SVM is in the process of being created. Wait a few minutes, and then try the command again.
23724109	DNS resolution failed for one or more specified servers
23724111	Empty NIS servers cannot be specified.
23724112	DNS resolution failed due to an internal error. Contact technical support if this issue persists
23724132	DNS resolution failed for all the specified servers
23724130	Cannot use an IPv6 name server address because there are no IPv6 LIFs

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

binding_status

Name	Type	Description
code	string	Code corresponding to the server's binding status.
message	string	Detailed description of the server's binding status.

binding_details

Name	Type	Description
server	string	Hostname/IP address of the NIS server in the domain.
status	binding_status	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

nis_service

Name	Type	Description
binding_details	array[binding_details]	An array of objects where each object represents the NIS server and it's status for a given NIS domain. It is an advanced field.
bound_servers	array[string]	
domain	string	The NIS domain to which this configuration belongs.
servers	array[string]	A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration.
svm	svm	SVM, applies only to SVM-scoped objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete the NIS domain configuration for an SVM

```
DELETE /name-services/nis/{svm.uuid}
```

Introduced In: 9.6

Deletes the NIS domain configuration of an SVM. NIS can be removed as a source from ns-switch if NIS is not used for lookups.

Related ONTAP commands

- `vserver services name-service nis-domain delete`

Learn more

- [DOC /name-services/nis](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

Status: 200, Ok

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve the NIS domain and server configurations for an SVM

GET /name-services/nis/{svm.uuid}

Introduced In: 9.6

Retrieves NIS domain and server configurations of an SVM. Both NIS domain and servers are displayed by default. The `bound_servers` field indicates the successfully bound NIS servers.

Related ONTAP commands

- `vserver services name-service nis-domain show`
- `vserver services name-service nis-domain show-bound`
- `vserver services name-service nis-domain show-bound-debug`

Learn more

- [DOC /name-services/nis](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
binding_details	array[binding_details]	An array of objects where each object represents the NIS server and it's status for a given NIS domain. It is an advanced field.
bound_servers	array[string]	
domain	string	The NIS domain to which this configuration belongs.
servers	array[string]	A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration.
svm	svm	SVM, applies only to SVM-scoped objects.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "binding_details": [
    {
      "server": "string",
      "status": {
        "code": "string",
        "message": "string"
      }
    }
  ],
  "bound_servers": [
    "string"
  ],
  "domain": "domainA.example.com",
  "servers": [
    "10.10.10.10",
    "example.com"
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

binding_status

Name	Type	Description
code	string	Code corresponding to the server's binding status.
message	string	Detailed description of the server's binding status.

binding_details

Name	Type	Description
server	string	Hostname/IP address of the NIS server in the domain.
status	binding_status	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update the NIS domain and server configuration for an SVM

```
PATCH /name-services/nis/{svm.uuid}
```

Introduced In: 9.6

Updates NIS domain and server configuration of an SVM.

Important notes

- Both NIS domain and servers can be modified.
- Domains and servers cannot be empty.
- Both FQDNs and IP addresses are supported for the servers field.
- If the domain is modified, NIS servers must also be specified.
- IPv6 must be enabled if IPv6 family addresses are specified for the servers field.

Related ONTAP commands

- `vserver services name-service nis-domain modify`

Learn more

- [DOC /name-services/nis](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
binding_details	array[binding_details]	An array of objects where each object represents the NIS server and it's status for a given NIS domain. It is an advanced field.
bound_servers	array[string]	
domain	string	The NIS domain to which this configuration belongs.
servers	array[string]	A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration.

Example request

```
{
  "binding_details": [
    {
      "server": "string",
      "status": {
        "code": "string",
        "message": "string"
      }
    }
  ],
  "bound_servers": [
    "string"
  ],
  "domain": "domainA.example.com",
  "servers": [
    "10.10.10.10",
    "example.com"
  ]
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
1966253	IPv6 is not enabled in the cluster
2621488	Invalid SVM context
2621706	The specified SVM UUID is incorrect for the specified SVM name
3276964	NIS domain name or NIS server domain is too long. The maximum supported for domain name is 64 characters and the maximum supported for NIS server domain is 255 characters
3276933	A maximum of 10 NIS servers can be configured per SVM
23724109	DNS resolution failed for one or more specified servers
23724111	Empty NIS servers cannot be specified.
23724112	DNS resolution failed due to an internal error. Contact technical support if this issue persists
23724132	DNS resolution failed for all the specified servers
23724130	Cannot use an IPv6 name server address because there are no IPv6 LIFs

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

binding_status

Name	Type	Description
code	string	Code corresponding to the server's binding status.
message	string	Detailed description of the server's binding status.

binding_details

Name	Type	Description
server	string	Hostname/IP address of the NIS server in the domain.
status	binding_status	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

nis_service

Name	Type	Description
binding_details	array[binding_details]	An array of objects where each object represents the NIS server and it's status for a given NIS domain. It is an advanced field.
bound_servers	array[string]	
domain	string	The NIS domain to which this configuration belongs.
servers	array[string]	A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage UNIX group configurations

Name-services unix-groups endpoint overview

Overview

You can use this API to display local UNIX group information and to control UNIX group configurations.

Retrieving UNIX group information

The UNIX group GET endpoint retrieves all of the local UNIX groups configurations for data SVMs.

Examples

Retrieving all of the fields for all of the UNIX group configurations

The UNIX group GET endpoint retrieves all of the local UNIX groups configurations for data SVMs.

```
# The API:
/api/name-services/unix-groups

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-groups?fields=*" -H
"accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "b009a9e7-4081-b576-7575-ada21efcaf16",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/b009a9e7-4081-b576-7575-ada21efcaf16"
          }
        }
      },
      "name": "group1",
      "id": 11,
      "users": [
        {
          "name": "user1"
        },
        {
          "name": "user2"
        },
        {
          "name": "user3"
        }
      ],
      "_links": {
        "self": {
          "href": "/api/name-services/unix-groups/b009a9e7-4081-b576-7575-ada21efcaf16/group1"
        }
      }
    }
  ]
}
```

```

    }
  },
  {
    "svm": {
      "uuid": "b009a9e7-4081-b576-7575-ada21efcaf16",
      "name": "vs1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/b009a9e7-4081-b576-7575-ada21efcaf16"
        }
      }
    },
    "name": "group2",
    "id": 12,
    "users": [
      {
        "name": "user1"
      },
      {
        "name": "user2"
      }
    ],
    "_links": {
      "self": {
        "href": "/api/name-services/unix-groups/b009a9e7-4081-b576-7575-ada21efcaf16/group2"
      }
    }
  },
  {
    "svm": {
      "uuid": "b009a9e7-4081-b576-7575-ada21efcad17",
      "name": "vs2",
      "_links": {
        "self": {
          "href": "/api/svm/svms/b009a9e7-4081-b576-7575-ada21efcad17"
        }
      }
    },
    "name": "group1",
    "id": 11,
    "users": [
      {
        "name": "user2"
      },

```

```
{
  "name": "user3"
},
{
  "_links": {
    "self": {
      "href": "/api/name-services/unix-groups/b009a9e7-4081-b576-7575-ada21efcad17/group1"
    }
  }
},
{
  "num_records": 3,
  "_links": {
    "self": {
      "href": "/api/name-services/unix-groups?fields=*"
    }
  }
}
}
```

Retrieving all of the UNIX group configurations whose group name is 'group1'.


```
# The API:
/api/name-services/unix-groups

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-groups?name=group1"
-H "accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "b009a9e7-4081-b576-7575-ada21efcaf16",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/b009a9e7-4081-b576-7575-ada21efcaf16"
          }
        }
      },
      "name": "group1",
      "id": 11,
      "_links": {
        "self": {
          "href": "/api/name-services/unix-groups/b009a9e7-4081-b576-7575-ada21efcaf16/group1"
        }
      }
    },
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/name-services/unix-groups?name=group1"
    }
  }
}
```

Creating a UNIX group configuration

The UNIX group POST endpoint creates a UNIX group configuration for the specified SVM.

Example

```
# The API:
/api/name-services/unix-groups

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-groups" -H "accept: application/hal+json" -H "Content-Type: application/json" -d '{ "svm": {"uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1"}, "name": "group1", "id": 111} '
```

Updating a UNIX group configuration

The UNIX group PATCH endpoint updates the UNIX group ID of the specified UNIX group and the specified SVM.

Example

Modify the group ID of group1 to 112

```
# The API:
/api/name-services/unix-groups/{svm.uuid}/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/unix-groups/179d3c85-7053-11e8-b9b8-005056b41bd1/group1" -H "accept: application/hal+json" -H "Content-Type: application/json" -d '{ "id": 112} '
```

Deleting a UNIX group configuration

The UNIX group DELETE endpoint deletes the specified UNIX group of the specified SVM.

Example

Delete the group 'group1'

```
# The API:
/api/name-services/unix-groups/{svm.uuid}/{name}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/unix-groups/179d3c85-7053-11e8-b9b8-005056b41bd1/group1" -H "accept: application/hal+json"
```

Retrieve UNIX groups for all SVMs

GET /name-services/unix-groups

Introduced In: 9.9

Retrieves the UNIX groups for all of the SVMs. UNIX users who are the members of the group are also displayed.

Related ONTAP commands

- `vserver services name-service unix-group show`

Learn more

- [DOC /name-services/unix-groups](#)

Parameters

Name	Type	In	Required	Description
id	integer	query	False	Filter by id
users.name	string	query	False	Filter by users.name
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
name	string	query	False	Filter by name
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
current_count	integer	Number of UNIX groups and members.
num_records	integer	Number of UNIX group records.
records	array[unix_group]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "group1",
      "skip_name_validation": true,
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "users": [
        {
          "name": "string"
        }
      ]
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

users

Name	Type	Description
name	string	UNIX user who belongs to the specified UNIX group and the SVM.

unix_group

Name	Type	Description
_links	_links	

Name	Type	Description
id	integer	UNIX group ID of the specified user.
name	string	UNIX group name to be added to the local database.
svm	svm	SVM, applies only to SVM-scoped objects.
users	array[users]	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Create a local UNIX group configuration for an SVM

POST /name-services/unix-groups

Introduced In: 9.9

Creates the local UNIX group configuration for the specified SVM.

Group name and group ID are mandatory parameters.

Important notes

- The default limit for local UNIX groups and group members is 32768.

Learn more

- [DOC /name-services/unix-groups](#)

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
id	integer	UNIX group ID of the specified user.
name	string	UNIX group name to be added to the local database.
skip_name_validation	boolean	Indicates whether or not the validation for the specified UNIX group name is disabled.
svm	svm	SVM, applies only to SVM-scoped objects.
users	array[users]	

Example request

```
{
  "name": "group1",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "users": [
    {
      "name": "string"
    }
  ]
}
```

Response

Status: 201, Created

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
2621706	The specified SVM UUID is incorrect for the specified SVM name.
2621516	This operation is only supported on a data SVM.
3277025	Maximum supported limit of UNIX group count reached.
3277051	Invalid characters in group name. Valid characters are 0-9, A-Z, a-z, ".", "_", and "-". Names cannot start with "-".

Error Code	Description
23724067	Group name too long. Maximum supported length is 64 characters.
23724141	Duplicate group ID. Group ID must be unique.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

users

Name	Type	Description
name	string	UNIX user who belongs to the specified UNIX group and the SVM.

unix_group

Name	Type	Description
id	integer	UNIX group ID of the specified user.
name	string	UNIX group name to be added to the local database.
skip_name_validation	boolean	Indicates whether or not the validation for the specified UNIX group name is disabled.
svm	svm	SVM, applies only to SVM-scoped objects.
users	array[users]	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete a UNIX group configuration for an SVM

```
DELETE /name-services/unix-groups/{svm.uuid}/{name}
```

Introduced In: 9.9

Deletes a UNIX group configuration for the specified SVM.

Related ONTAP commands

- `vserver services name-service unix-group delete`

Learn more

- [DOC /name-services/unix-groups](#)

Parameters

Name	Type	In	Required	Description
name	string	path	True	UNIX group name.
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

Status: 200, Ok

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve UNIX group information for a group and SVM

GET /name-services/unix-groups/{svm.uuid}/{name}

Introduced In: 9.9

Retrieves UNIX group information for the specified group and SVM. UNIX users who are part of this group are also retrieved.

Related ONTAP commands

- `vserver services name-service unix-group show`

Learn more

- [DOC /name-services/unix-groups](#)

Parameters

Name	Type	In	Required	Description
name	string	path	True	UNIX group name.

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
id	integer	UNIX group ID of the specified user.
name	string	UNIX group name to be added to the local database.
svm	svm	SVM, applies only to SVM-scoped objects.
users	array[users]	

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "group1",
  "skip_name_validation": true,
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "users": [
    {
      "name": "string"
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

users

Name	Type	Description
name	string	UNIX user who belongs to the specified UNIX group and the SVM.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update UNIX group information for a group in an SVM

PATCH /name-services/unix-groups/{svm.uuid}/{name}

Introduced In: 9.9

Updates the UNIX group information of the specified group in the specified SVM.

Learn more

- [DOC /name-services/unix-groups](#)

Parameters

Name	Type	In	Required	Description
name	string	path	True	UNIX group name.
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
id	integer	UNIX group ID of the specified user.
users	array[users]	

Example request

```
{
  "skip_name_validation": true,
  "users": [
    {}
  ]
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
23724141	Duplicate group ID. Group ID must be unique.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

users

unix_group

Name	Type	Description
id	integer	UNIX group ID of the specified user.
users	array[users]	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code

Name	Type	Description
message	string	Error message
target	string	The target parameter that caused the error.

Manage UNIX group users

Name-services unix-groups svm.uuid unix_group.name users endpoint overview

Overview

You can use this API to retrieve, add or delete UNIX users for an SVM's UNIX group.

Retrieving UNIX users from an SVM's UNIX group

The UNIX group users GET endpoint retrieves UNIX users of the specified UNIX group and the SVM.

Examples

Retrieving all users from the group 'pcuser'

```
# The API:
/api/name-services/unix-groups/{svm.uuid}/{unix_group.name}/users

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-groups/f06686a2-
c901-11eb-94b4-0050568e9f2c/pcuser/users" -H "accept:
application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "f06686a2-c901-11eb-94b4-0050568e9f2c",
        "name": "svm1"
      },
      "unix_group": {
        "name": "pcuser"
      },
      "name": "user1",
      "_links": {
        "self": {
          "href": "/api/name-services/unix-groups/f06686a2-c901-11eb-94b4-
0050568e9f2c/pcuser/users/user1"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/name-services/unix-groups/f06686a2-c901-11eb-94b4-
0050568e9f2c/pcuser/users/?fields=*"
    }
  }
}
```

Retrieving user 'user1' from the group 'pcuser'


```
# The API:
/api/name-services/unix-groups/{svm.uuid}/{unix_group.name}/users/{name}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-groups/f06686a2-
c901-11eb-94b4-0050568e9f2c/pcuser/users/user1" -H "accept:
application/hal+json"

# The response:
{
  "svm": {
    "uuid": "f06686a2-c901-11eb-94b4-0050568e9f2c",
    "name": "svml"
  },
  "unix_group": {
    "name": "pcuser"
  },
  "name": "user1",
  "_links": {
    "self": {
      "href": "/api/name-services/unix-groups/f06686a2-c901-11eb-94b4-
0050568e9f2c/pcuser/users/user1"
    }
  }
}
```

Adding users to a UNIX group

The UNIX group users POST endpoint adds UNIX users to the specified UNIX group and the SVM. Multiple users can be added in a single call using the "records" parameter.

Examples

Adding a single user to the group 'group1'

```
# The API:
/api/name-services/unix-groups/{svm.uuid}/{unix_group.name}/users

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-groups/179d3c85-
7053-11e8-b9b8-005056b41bd1/group1/users" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d '{ "name":
"user4" }'
```

Adding multiple users to the group 'group1' in a single REST call

```
# The API:
/api/name-services/unix-groups/{svm.uuid}/{unix_group.name}/users

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-groups/179d3c85-7053-11e8-b9b8-005056b41bd1/group1/users" -H "accept: application/hal+json" -H "Content-Type: application/json" -d '{"records": [{"name": "user1"}, {"name": "user2"}, {"name": "user3"}]}'
```

Deleting a user from a group of a specific SVM

Example

Delete the user 'user1' from group 'group1' in SVM 'vs1'

```
# The API:
/api/name-services/unix-groups/{svm.uuid}/{unix_group.name}/users/{name}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/unix-groups/179d3c85-7053-11e8-b9b8-005056b41bd1/group1/users/user1" -H "accept: application/hal+json"
```

Retrieve users for a UNIX group and SVM

GET /name-services/unix-groups/{svm.uuid}/{unix_group.name}/users

Introduced In: 9.10

Retrieves users for the specified UNIX group and SVM.

Related ONTAP commands

- `vserver services name-service unix-group show`

Parameters

Name	Type	In	Required	Description
unix_group.name	string	path	True	UNIX group name.
name	string	query	False	Filter by name

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	

Name	Type	Description
num_records	integer	Number of UNIX user records in a given SVM and group.
records	array[unix_group_users]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "string",
      "skip_name_validation": true,
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "unix_group": {
        "name": "string"
      }
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

records

Name	Type	Description
name	string	UNIX user who belongs to the specified UNIX group and the SVM.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

unix_group

Name	Type	Description
name	string	UNIX group name.

unix_group_users

Name	Type	Description
_links	_links	
name	string	UNIX user who belongs to the specified UNIX group and the SVM.
svm	svm	SVM, applies only to SVM-scoped objects.
unix_group	unix_group	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Add users to a UNIX group and SVM

POST /name-services/unix-groups/{svm.uuid}/{unix_group.name}/users

Introduced In: 9.9

Adds users to the specified UNIX group and SVM.

Important notes

- Multiple users can be added in a single call using the "records" parameter.
- "records" parameter must not be specified when "name" parameter is specified.

- Specified users are appended to the existing list of users.
- Duplicate users are ignored.

Related ONTAP commands

- `vserver services name-service unix-group adduser`
- `vserver services name-service unix-group addusers`

Parameters

Name	Type	In	Required	Description
unix_group.name	string	path	True	UNIX group name.
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
name	string	UNIX user who belongs to the specified UNIX group and the SVM.
records	array[records]	An array of UNIX users specified to add multiple users to a UNIX group in a single API call. Not allowed when the <code>name</code> property is used.
skip_name_validation	boolean	Indicates whether or not the validation for the specified UNIX user names is disabled.
svm	svm	SVM, applies only to SVM-scoped objects.
unix_group	unix_group	

Example request

```
{
  "name": "string",
  "records": [
    {
      "name": "string"
    }
  ],
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "unix_group": {
    "name": "string"
  }
}
```

Response

Status: 201, Created

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
262179	Invalid arguments in records.
3276897	The specified UNIX group does not exist in the SVM.
3277025	Maximum supported limit of UNIX group membership count reached.

Error Code	Description
3277051	Invalid characters in user name. Valid characters are 0-9, A-Z, a-z, ".", "_", and "-". Names cannot start with "-".
23724066	User name too long. Maximum supported length is 64 characters.
23724142	"records" field must not be specified when a single user is added.
23724143	SVM UUID, UNIX group name and skip-name-validation are invalid fields for "records" parameter.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

records

Name	Type	Description
name	string	UNIX user who belongs to the specified UNIX group and the SVM.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

unix_group

Name	Type	Description
name	string	UNIX group name.

unix_group_users

Name	Type	Description
name	string	UNIX user who belongs to the specified UNIX group and the SVM.

Name	Type	Description
records	array[records]	An array of UNIX users specified to add multiple users to a UNIX group in a single API call. Not allowed when the <code>name</code> property is used.
skip_name_validation	boolean	Indicates whether or not the validation for the specified UNIX user names is disabled.
svm	svm	SVM, applies only to SVM-scoped objects.
unix_group	unix_group	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete a user from a UNIX group

`DELETE /name-services/unix-groups/{svm.uuid}/{unix_group.name}/users/{name}`

Introduced In: 9.9

Deletes a user from the specified UNIX group.

Related ONTAP commands

- `vserver services name-service unix-group deluser`

Parameters

Name	Type	In	Required	Description
unix_group.name	string	path	True	UNIX group name.
name	string	path	True	UNIX user to be deleted from the group.
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
3276897	The specified UNIX group does not exist in the SVM.

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve users for a UNIX group and SVM

GET /name-services/unix-groups/{svm.uuid}/{unix_group.name}/users/{name}

Introduced In: 9.10

Retrieves users for the specified UNIX group and SVM.

Related ONTAP commands

- `vserver services name-service unix-group show`

Parameters

Name	Type	In	Required	Description
unix_group.name	string	path	True	UNIX group name.
name	string	path	True	UNIX user to be retrieved from the group.
fields	array[string]	query	False	Specify the fields to return.
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
name	string	UNIX user who belongs to the specified UNIX group and the SVM.
svm	svm	SVM, applies only to SVM-scoped objects.
unix_group	unix_group	

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "string",
  "skip_name_validation": true,
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "unix_group": {
    "name": "string"
  }
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

records

Name	Type	Description
name	string	UNIX user who belongs to the specified UNIX group and the SVM.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

unix_group

Name	Type	Description
name	string	UNIX group name.

error_arguments

Name	Type	Description
code	string	Argument code

Name	Type	Description
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Manage UNIX user configurations

Name-services unix-users endpoint overview

Overview

You can use this API to display local UNIX user information and to control UNIX user configurations.

Retrieving UNIX user information

You can use the UNIX user GET endpoint to retrieve all of the local UNIX user configurations for data SVMs.

Examples

Retrieving all of the fields for UNIX user configurations for all SVMs

```
# The API:
/api/name-services/unix-users

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-users?fields=*" -H
"accept: application/json"

# The response:
{
  "records": [
    {
      "svm": {
```

```

    "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
    "name": "vs1"
  },
  "name": "string",
  "id": 7,
  "primary_gid": 0,
  "full_name": "string"
},
{
  "svm": {
    "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
    "name": "vs2"
  },
  "name": "nobody",
  "id": 65535,
  "primary_gid": 65535,
  "full_name": ""
},
{
  "svm": {
    "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
    "name": "vs2"
  },
  "name": "pcuser",
  "id": 65534,
  "primary_gid": 65534,
  "full_name": ""
},
{
  "svm": {
    "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
    "name": "vs2"
  },
  "name": "root",
  "id": 0,
  "primary_gid": 1,
  "full_name": ""
}
],
"num_records": 4
}

```

Retrieving the UNIX user configuration of a specific SVM

```
# The API:
/api/name-services/unix-users

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-
users?svm.uuid=25b363a6-2971-11eb-88e1-0050568eefd4&fields=*" -H "accept:
application/json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
        "name": "vs1"
      },
      "name": "user1",
      "id": 1,
      "primary_gid": 1,
      "full_name": "Full User Name for user1"
    }
  ],
  "num_records": 1
}
```

Retrieving a UNIX user configuration of a specific SVM and user

```
# The API:
/api/name-services/unix-users/{svm.uuid}/{name}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-users/25b363a6-2971-11eb-88e1-0050568eefd4/user1" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
    "name": "vs1"
  },
  "name": "user1",
  "id": 1,
  "primary_gid": 1,
  "full_name": "Full User Name for user1"
}
```

Creating a UNIX user configuration

The UNIX user POST endpoint creates a UNIX user configuration for the specified SVM.

Examples

Creating a UNIX user configuration with all fields specified

```
# The API:
/api/name-services/unix-users

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-users" -H "accept: application/json" -d "{ \"full_name\": \"Full user name\", \"id\": 7, \"name\": \"user2\", \"primary_gid\": 10, \"skip_name_validation\": false, \"svm\": { \"name\": \"vs1\", \"uuid\": \"25b363a6-2971-11eb-88e1-0050568eefd4\" } }"
```

Creating a UNIX user configuration with only mandatory fields specified

```
# The API:
/api/name-services/unix-users

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-users" -H "accept: application/json" -d "{ \"id\": 8, \"name\": \"user9\", \"primary_gid\": 10, \"svm\": { \"name\": \"vs1\", \"uuid\": \"25b363a6-2971-11eb-88e1-0050568eefd4\" } }"
```

Updating a UNIX user configuration

The UNIX user PATCH endpoint updates the UNIX user configuration for the specified user and SVM. The following example shows a PATCH operation:

```
# The API:
/api/name-services/unix-users/{svm.uuid}/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/unix-users/25b363a6-2971-11eb-88e1-0050568eefd4/user1" -H "accept: application/json" -d "{ \"full_name\": \"Full name\", \"id\": 7, \"primary_gid\": 10 }"
```

Deleting a UNIX user configuration

The UNIX user DELETE endpoint deletes the specified UNIX user for the specified SVM. The following example shows a DELETE operation:

```
# The API:
/api/name-services/unix-users/{svm.uuid}/{name}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/unix-users/25b363a6-2971-11eb-88e1-0050568eefd4/user1" -H "accept: application/json"
```

Retrieve all UNIX users for all SVMs

GET /name-services/unix-users

Introduced In: 9.9

Retrieves all of the UNIX users for all of the SVMs.

Important notes

- The current UNIX users count can be retrieved from the num_records field by calling the API with the parameter "return_records=false".

Related ONTAP commands

- `vserver services name-service unix-user show`

Parameters

Name	Type	In	Required	Description
primary_gid	integer	query	False	Filter by primary_gid
name	string	query	False	Filter by name
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
id	integer	query	False	Filter by id
full_name	string	query	False	Filter by full_name
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of UNIX user records.
records	array[unix_user]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "full_name": "Full User Name for user1",
      "name": "user1",
      "skip_name_validation": true,
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

unix_user

Name	Type	Description
_links	_links	
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
name	string	UNIX user name to be added to the local database.

Name	Type	Description
primary_gid	integer	Primary group ID to which the user belongs.
svm	svm	SVM, applies only to SVM-scoped objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Create a local UNIX user configuration for an SVM

POST /name-services/unix-users

Introduced In: 9.9

Creates the local UNIX user configuration for an SVM.

Important notes

- The default limit for local UNIX users is 32768.

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
name	string	UNIX user name to be added to the local database.
primary_gid	integer	Primary group ID to which the user belongs.
skip_name_validation	boolean	Indicates whether or not the validation for the specified UNIX user name is disabled.
svm	svm	SVM, applies only to SVM-scoped objects.

Example request

```
{
  "full_name": "Full User Name for user1",
  "name": "user1",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 201, Created

Name	Type	Description
num_records	integer	Number of UNIX user records.
records	array[unix_user]	

Example response

```
{
  "num_records": 1,
  "records": [
    {
      "full_name": "Full User Name for user1",
      "name": "user1",
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
2621706	The specified SVM UUID is incorrect for the specified SVM name
2621516	This operation is only supported on a data SVM
23724066	The specified UNIX user name is too long. Maximum supported length is 64 characters.
3277051	The specified UNIX user name contains invalid characters. Valid characters are 0-9, A-Z, a-z, ".", "_", and "-".

Error Code	Description
23724128	The specified UNIX user full-name contains the invalid character ':'.
23724089	The specified UNIX user full-name is too long. Maximum supported length is 256 characters.
23724055	Internal error. Failed to create the UNIX user for the SVM. Verify that the cluster is healthy, then try the command again.
23724090	Configuring individual entries is not supported because file-only configuration is enabled.
3277025	Failed to create the UNIX user for the SVM because the system limit has been reached.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

unix_user

Name	Type	Description
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
name	string	UNIX user name to be added to the local database.
primary_gid	integer	Primary group ID to which the user belongs.
skip_name_validation	boolean	Indicates whether or not the validation for the specified UNIX user name is disabled.
svm	svm	SVM, applies only to SVM-scoped objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete a UNIX user configuration for an SVM

```
DELETE /name-services/unix-users/{svm.uuid}/{name}
```

Introduced In: 9.9

Deletes a UNIX user configuration for the specified SVM.

Related ONTAP commands

- `vserver services name-service unix-user delete`

Parameters

Name	Type	In	Required	Description
name	string	path	True	UNIX user name
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

```
Status: 200, Ok
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve UNIX user information for a user and SVM

GET /name-services/unix-users/{svm.uuid}/{name}

Introduced In: 9.9

Retrieves UNIX user information for the specified user and SVM.

Related ONTAP commands

- `vserver services name-service unix-user show`

Parameters

Name	Type	In	Required	Description
name	string	path	True	UNIX user name
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
name	string	UNIX user name to be added to the local database.
primary_gid	integer	Primary group ID to which the user belongs.
svm	svm	SVM, applies only to SVM-scoped objects.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "full_name": "Full User Name for user1",
  "name": "user1",
  "skip_name_validation": true,
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update UNIX user information for a user and SVM

PATCH /name-services/unix-users/{svm.uuid}/{name}

Introduced In: 9.9

Updates UNIX user information for the specified user and SVM.

Parameters

Name	Type	In	Required	Description
name	string	path	True	UNIX user name
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
primary_gid	integer	Primary group ID to which the user belongs.

Example request

```
{
  "full_name": "Full User Name for user1",
  "skip_name_validation": true
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
23724128	The specified Unix user full-name contains invalid character ':'
23724089	The specified UNIX user full-name is too long. Maximum supported length is 256 characters.
23724055	Internal error. Failed to modify the UNIX user for the SVM. Verify that the cluster is healthy, then try the command again.
23724090	Configuring individual entries is not supported because file-only configuration is enabled.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

unix_user

Name	Type	Description
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
primary_gid	integer	Primary group ID to which the user belongs.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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