



## **Name-services**

### **ONTAP 9.7 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 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 data 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": "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"
  ]
  "_links": {
    "self": {
      "href": "/api/name-services/dns/179d3c85-7053-11e8-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"
  ]
  "_links": {
    "self": {
      "href": "/api/name-services/dns/19076d35-6e27-11e8-b9b8-005056b41bd1"
    }
  }
}
],
"num_records": 2
"_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": [  
    {  
      "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/{svm.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:
{
  "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"
  ]
  "_links": {
    "self": {
      "href": "/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1"
    }
  }
}
```

## Creating a DNS configuration

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

### Example

The following example shows a POST operation:

```
# 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\" ]}"
```

## 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/{svm.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/{svm.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\" ] }"
```

## 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/{svm.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

Retrieves the DNS configurations of all data SVMs. DNS configuration for the cluster is retrieved and managed via [/api/cluster](#).

### Related ONTAP commands

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

### Learn more

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

### Parameters

Name	Type	In	Required	Description
domains	string	query	False	Filter by domains
servers	string	query	False	Filter by servers
svm.uuid	string	query	False	Filter by svm.uuid
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.



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.
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of DNS domain records
records	array[ <a href="#">dns</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "domains": [
      "example.com",
      "example2.example3.com"
    ],
    "servers": [
      "10.224.65.20",
      "2001:db08:a0b:12f0::1"
    ],
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  }
}
```

## Error

Status: Default, Error

Name	Type	Description
error	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	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

dns

Name	Type	Description
_links	<a href="#">_links</a>	

Name	Type	Description
domains	array[string]	<p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none"> <li>• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_".</li> <li>• 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.</li> <li>• 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.</li> <li>• The top level domain must contain only the following characters: A through Z, a through z.</li> <li>• The system reserves the following names: "all", "local", and "localhost".</li> </ul>
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
svm	<a href="#">svm</a>	

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code

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

## Create DNS domain and server configurations

POST /name-services/dns

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.

### Learn more

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

### Parameters

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

### Request Body

Name	Type	Description
_links	<a href="#">_links</a>	

Name	Type	Description
domains	array[string]	<p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none"> <li>• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_".</li> <li>• 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.</li> <li>• 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.</li> <li>• The top level domain must contain only the following characters: A through Z, a through z.</li> <li>• The system reserves the following names: "all", "local", and "localhost".</li> </ul>
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
svm	svm	

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "domains": [
    "example.com",
    "example2.example3.com"
  ],
  "servers": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

## Response

Status: 201, Created

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of DNS domain records
records	array[ <a href="#">dns</a> ]	



## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "domains": [
      "example.com",
      "example2.example3.com"
    ],
    "servers": [
      "10.224.65.20",
      "2001:db08:a0b:12f0::1"
    ],
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  }
}
```

## 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
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: 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

Name	Type	Description
error	<a href="#">error</a>	

### 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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

dns

Name	Type	Description
_links	<a href="#">_links</a>	

Name	Type	Description
domains	array[string]	<p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none"> <li>• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_".</li> <li>• 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.</li> <li>• 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.</li> <li>• The top level domain must contain only the following characters: A through Z, a through z.</li> <li>• The system reserves the following names: "all", "local", and "localhost".</li> </ul>
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
svm	<a href="#">svm</a>	

#### \_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Delete a DNS domain configuration

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

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
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	<a href="#">error</a>	

## 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

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Retrieve DNS domain and server configurations

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

Retrieves DNS domain and server configuration of an SVM. By default, both DNS domains and servers are displayed. DNS configuration for the cluster is retrieved and managed via [/api/cluster](#) .

## Related ONTAP commands

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

## Learn more

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

## 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	<a href="#">_links</a>	



Name	Type	Description
domains	array[string]	<p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none"> <li>• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_".</li> <li>• 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.</li> <li>• 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.</li> <li>• The top level domain must contain only the following characters: A through Z, a through z.</li> <li>• The system reserves the following names: "all", "local", and "localhost".</li> </ul>
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
svm	svm	

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "domains": [
    "example.com",
    "example2.example3.com"
  ],
  "servers": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

## Error

Status: Default, Error

Name	Type	Description
error	<a href="#">error</a>	

### 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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Update DNS domain and server configurations

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

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.

### Learn more

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

### 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
_links	<a href="#">_links</a>	

Name	Type	Description
domains	array[string]	<p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none"> <li>• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_".</li> <li>• 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.</li> <li>• 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.</li> <li>• The top level domain must contain only the following characters: A through Z, a through z.</li> <li>• The system reserves the following names: "all", "local", and "localhost".</li> </ul>
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
svm	svm	

### Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "domains": [
    "example.com",
    "example2.example3.com"
  ],
  "servers": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "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

Error Code	Description
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
8847394	FQDN name violated the limitations
8847399	One or more of the specified DNS servers do not exist or cannot be reached
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: 63 characters
23724130	Cannot use an IPv6 name server address because there are no IPv6 LIFs

Name	Type	Description
error	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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

dns

Name	Type	Description
_links	<a href="#">_links</a>	

Name	Type	Description
domains	array[string]	<p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none"> <li>• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_".</li> <li>• 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.</li> <li>• 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.</li> <li>• The top level domain must contain only the following characters: A through Z, a through z.</li> <li>• The system reserves the following names: "all", "local", and "localhost".</li> </ul>
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.
svm	<a href="#">svm</a>	

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code

Name	Type	Description
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,
"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",
"_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"
      }
    }
  },
  "servers": [
    "11.11.11.11"
  ],
  "schema": "rfc_2307",
  "port": 389,
  "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",
  "_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,
  "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",
  "_links": {
    "self": {
      "href": "/api/name-services/ldap/179d3c85-7053-11e8-b9b8-005056b41bd1"
    }
  }
}
```

## 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, \"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\"}"
```

## 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, \"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 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\" } }
```

---

## 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, \"use_start_tls\": 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 an LDAP configuration for all SVMs

GET /name-services/ldap

Retrieves the LDAP configurations for all SVMs.

### Learn more

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

### Parameters

Name	Type	In	Required	Description
use_start_tls	boolean	query	False	Filter by use_start_tls
schema	string	query	False	Filter by schema
port	integer	query	False	Filter by port
ad_domain	string	query	False	Filter by ad_domain
session_security	string	query	False	Filter by session_security
min_bind_level	string	query	False	Filter by min_bind_level
servers	string	query	False	Filter by servers
bind_dn	string	query	False	Filter by bind_dn
preferred_ad_servers	string	query	False	Filter by preferred_ad_servers
base_scope	string	query	False	Filter by base_scope
base_dn	string	query	False	Filter by base_dn
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
fields	array[string]	query	False	Specify the fields to return.

Name	Type	In	Required	Description
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.
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.
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of LDAP records.
records	array[ <a href="#">ldap_service</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "base_scope": "base",
    "min_bind_level": "anonymous",
    "port": 389,
    "preferred_ad_servers": {
    },
    "servers": {
    },
    "session_security": "none",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  }
}
```

## Error

Status: Default, Error

Name	Type	Description
error	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	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

ldap\_service

Name	Type	Description
_links	<a href="#">_links</a>	
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: <ul style="list-style-type: none"> <li>• base - search the named entry only</li> <li>• onelevel - search all entries immediately below the DN</li> <li>• subtree - search the named DN entry and the entire subtree below the DN</li> </ul>
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
min_bind_level	string	The minimum bind authentication level. Possible values are: <ul style="list-style-type: none"> <li>• anonymous - anonymous bind</li> <li>• simple - simple bind</li> <li>• sasl - Simple Authentication and Security Layer (SASL) bind</li> </ul>
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	
schema	string	The name of the schema template used by the SVM. <ul style="list-style-type: none"> <li>• AD-IDMU - Active Directory Identity Management for UNIX</li> <li>• AD-SFU - Active Directory Services for UNIX</li> <li>• MS-AD-BIS - Active Directory Identity Management for UNIX</li> <li>• RFC-2307 - Schema based on RFC 2307</li> <li>• Custom schema</li> </ul>

Name	Type	Description
servers	array[string]	
session_security	string	Specifies the level of security to be used for LDAP communications: <ul style="list-style-type: none"> <li>• none - no signing or sealing</li> <li>• sign - sign LDAP traffic</li> <li>• seal - seal and sign LDAP traffic</li> </ul>
svm	<a href="#">svm</a>	
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create an LDAP configuration for an SVM

POST /name-services/ldap

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
- min\_bind\_level
- bind\_password
- base\_scope
- use\_start\_tls
- session\_security

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.

## Learn more

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

## Parameters

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

## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	

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: <ul style="list-style-type: none"> <li>• base - search the named entry only</li> <li>• onelevel - search all entries immediately below the DN</li> <li>• subtree - search the named DN entry and the entire subtree below the DN</li> </ul>
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
min_bind_level	string	The minimum bind authentication level. Possible values are: <ul style="list-style-type: none"> <li>• anonymous - anonymous bind</li> <li>• simple - simple bind</li> <li>• sasl - Simple Authentication and Security Layer (SASL) bind</li> </ul>
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	

Name	Type	Description
schema	string	<p>The name of the schema template used by the SVM.</p> <ul style="list-style-type: none"> <li>• AD-IDMU - Active Directory Identity Management for UNIX</li> <li>• AD-SFU - Active Directory Services for UNIX</li> <li>• MS-AD-BIS - Active Directory Identity Management for UNIX</li> <li>• RFC-2307 - Schema based on RFC 2307</li> <li>• Custom schema</li> </ul>
servers	array[string]	
session_security	string	<p>Specifies the level of security to be used for LDAP communications:</p> <ul style="list-style-type: none"> <li>• none - no signing or sealing</li> <li>• sign - sign LDAP traffic</li> <li>• seal - seal and sign LDAP traffic</li> </ul>
svm	<a href="#">svm</a>	
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "base_scope": "base",
  "min_bind_level": "anonymous",
  "port": 389,
  "preferred_ad_servers": {
  },
  "servers": {
  },
  "session_security": "none",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

## Response

Status: 201, Created

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of LDAP records.
records	array[ <a href="#">ldap_service</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "base_scope": "base",
    "min_bind_level": "anonymous",
    "port": 389,
    "preferred_ad_servers": {
    },
    "servers": {
    },
    "session_security": "none",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  }
}
```

## 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
4915207	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
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.
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

Name	Type	Description
error	<a href="#">error</a>	

### 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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

ldap\_service

Name	Type	Description
_links	<a href="#">_links</a>	
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: <ul style="list-style-type: none"><li>• base - search the named entry only</li><li>• onelevel - search all entries immediately below the DN</li><li>• subtree - search the named DN entry and the entire subtree below the DN</li></ul>



Name	Type	Description
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
min_bind_level	string	<p>The minimum bind authentication level. Possible values are:</p> <ul style="list-style-type: none"> <li>• anonymous - anonymous bind</li> <li>• simple - simple bind</li> <li>• sasl - Simple Authentication and Security Layer (SASL) bind</li> </ul>
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	
schema	string	<p>The name of the schema template used by the SVM.</p> <ul style="list-style-type: none"> <li>• AD-IDMU - Active Directory Identity Management for UNIX</li> <li>• AD-SFU - Active Directory Services for UNIX</li> <li>• MS-AD-BIS - Active Directory Identity Management for UNIX</li> <li>• RFC-2307 - Schema based on RFC 2307</li> <li>• Custom schema</li> </ul>
servers	array[string]	
session_security	string	<p>Specifies the level of security to be used for LDAP communications:</p> <ul style="list-style-type: none"> <li>• none - no signing or sealing</li> <li>• sign - sign LDAP traffic</li> <li>• seal - seal and sign LDAP traffic</li> </ul>

Name	Type	Description
svm	<a href="#">svm</a>	
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.

[\\_links](#)

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

[error\\_arguments](#)

Name	Type	Description
code	string	Argument code
message	string	Message argument

[error](#)

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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}
```

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.

### Learn more

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

## 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	<a href="#">error</a>	

## 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

### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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}

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

### Learn more

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

### 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
<a href="#">_links</a>	<a href="#">_links</a>	
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: <ul style="list-style-type: none"><li>• base - search the named entry only</li><li>• onelevel - search all entries immediately below the DN</li><li>• subtree - search the named DN entry and the entire subtree below the DN</li></ul>
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
min_bind_level	string	The minimum bind authentication level. Possible values are: <ul style="list-style-type: none"><li>• anonymous - anonymous bind</li><li>• simple - simple bind</li><li>• sasl - Simple Authentication and Security Layer (SASL) bind</li></ul>
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	

Name	Type	Description
schema	string	<p>The name of the schema template used by the SVM.</p> <ul style="list-style-type: none"> <li>• AD-IDMU - Active Directory Identity Management for UNIX</li> <li>• AD-SFU - Active Directory Services for UNIX</li> <li>• MS-AD-BIS - Active Directory Identity Management for UNIX</li> <li>• RFC-2307 - Schema based on RFC 2307</li> <li>• Custom schema</li> </ul>
servers	array[string]	
session_security	string	<p>Specifies the level of security to be used for LDAP communications:</p> <ul style="list-style-type: none"> <li>• none - no signing or sealing</li> <li>• sign - sign LDAP traffic</li> <li>• seal - seal and sign LDAP traffic</li> </ul>
svm	<a href="#">svm</a>	
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "base_scope": "base",
  "min_bind_level": "anonymous",
  "port": 389,
  "preferred_ad_servers": {
  },
  "servers": {
  },
  "session_security": "none",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

## Error

Status: Default, Error

Name	Type	Description
error	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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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}
```

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

### Learn more

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

### 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
_links	<a href="#">_links</a>	
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: <ul style="list-style-type: none"> <li>• base - search the named entry only</li> <li>• onelevel - search all entries immediately below the DN</li> <li>• subtree - search the named DN entry and the entire subtree below the DN</li> </ul>
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
min_bind_level	string	The minimum bind authentication level. Possible values are: <ul style="list-style-type: none"> <li>• anonymous - anonymous bind</li> <li>• simple - simple bind</li> <li>• sasl - Simple Authentication and Security Layer (SASL) bind</li> </ul>
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	
schema	string	The name of the schema template used by the SVM. <ul style="list-style-type: none"> <li>• AD-IDMU - Active Directory Identity Management for UNIX</li> <li>• AD-SFU - Active Directory Services for UNIX</li> <li>• MS-AD-BIS - Active Directory Identity Management for UNIX</li> <li>• RFC-2307 - Schema based on RFC 2307</li> <li>• Custom schema</li> </ul>
servers	array[string]	

Name	Type	Description
session_security	string	Specifies the level of security to be used for LDAP communications: <ul style="list-style-type: none"> <li>• none - no signing or sealing</li> <li>• sign - sign LDAP traffic</li> <li>• seal - seal and sign LDAP traffic</li> </ul>
svm	svm	
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.

### Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "base_scope": "base",
  "min_bind_level": "anonymous",
  "port": 389,
  "preferred_ad_servers": {
  },
  "servers": {
  },
  "session_security": "none",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
```

### 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
4915208	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
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.

Error Code	Description
23724130	Cannot use an IPv6 name server address because there are no IPv6 LIFs

Name	Type	Description
error	<a href="#">error</a>	

#### 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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

ldap\_service

Name	Type	Description
_links	<a href="#">_links</a>	
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: <ul style="list-style-type: none"><li>• base - search the named entry only</li><li>• onelevel - search all entries immediately below the DN</li><li>• subtree - search the named DN entry and the entire subtree below the DN</li></ul>

Name	Type	Description
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
min_bind_level	string	<p>The minimum bind authentication level. Possible values are:</p> <ul style="list-style-type: none"> <li>• anonymous - anonymous bind</li> <li>• simple - simple bind</li> <li>• sasl - Simple Authentication and Security Layer (SASL) bind</li> </ul>
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	
schema	string	<p>The name of the schema template used by the SVM.</p> <ul style="list-style-type: none"> <li>• AD-IDMU - Active Directory Identity Management for UNIX</li> <li>• AD-SFU - Active Directory Services for UNIX</li> <li>• MS-AD-BIS - Active Directory Identity Management for UNIX</li> <li>• RFC-2307 - Schema based on RFC 2307</li> <li>• Custom schema</li> </ul>
servers	array[string]	
session_security	string	<p>Specifies the level of security to be used for LDAP communications:</p> <ul style="list-style-type: none"> <li>• none - no signing or sealing</li> <li>• sign - sign LDAP traffic</li> <li>• seal - seal and sign LDAP traffic</li> </ul>



Name	Type	Description
svm	<a href="#">svm</a>	
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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: applicatio/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\"}"
```

## Removing a specific name-mapping configuration

```
# 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 hostname mapping for all SVMs

GET /name-services/name-mappings

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
pattern	string	query	False	Filter by pattern
client_match	string	query	False	Filter by client_match
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
replacement	string	query	False	Filter by replacement
direction	string	query	False	Filter by direction
index	integer	query	False	Filter by index

Name	Type	In	Required	Description
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.
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.
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">name_mapping</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "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	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	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

name\_mapping

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.

Name	Type	Description
_links	<a href="#">_links</a>	

Name	Type	Description
client_match	string	<p>Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats:</p> <ul style="list-style-type: none"> <li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li> <li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li> <li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li> <li>• As a hostname</li> </ul>
direction	string	<p>Direction in which the name mapping is applied. The possible values are:</p> <ul style="list-style-type: none"> <li>• krb_unix - Kerberos principal name to UNIX user name</li> <li>• win_unix - Windows user name to UNIX user name</li> <li>• unix_win - UNIX user name to Windows user name mapping</li> </ul>
index	integer	Position in the list of name mappings.
pattern	string	<p>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.</p>

Name	Type	Description
replacement	string	The name that is used as a replacement, if the pattern associated with this entry matches.
svm	<a href="#">svm</a>	

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create the hostname mappings for an SVM

POST /name-services/name-mappings

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`
- `vserver name-mapping insert`

## 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.

## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
client_match	string	<p>Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats:</p> <ul style="list-style-type: none"><li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li><li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li><li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li><li>• As a hostname</li></ul>

Name	Type	Description
direction	string	<p>Direction in which the name mapping is applied. The possible values are:</p> <ul style="list-style-type: none"> <li>• krb_unix - Kerberos principal name to UNIX user name</li> <li>• win_unix - Windows user name to UNIX user name</li> <li>• unix_win - UNIX user name to Windows user name mapping</li> </ul>
index	integer	Position in the list of name mappings.
pattern	string	<p>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.</p>
replacement	string	The name that is used as a replacement, if the pattern associated with this entry matches.
svm	<a href="#">svm</a>	

### Example request

```
{
  "_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"
  }
}
```

### Response

Status: 201, Created

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">name_mapping</a> ]	

## Example response

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

## ONTAP Error Response Codes

Error Code	Description
65798185	Failed to resolve the specified hostname



Error Code	Description
65798149	Invalid index for the name mapping entry
2621706	The specified svm.uuid and svm.name refer to different SVMs

Name	Type	Description
error	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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

name\_mapping

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.

Name	Type	Description
_links	<a href="#">_links</a>	

Name	Type	Description
client_match	string	<p>Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats:</p> <ul style="list-style-type: none"> <li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li> <li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li> <li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li> <li>• As a hostname</li> </ul>
direction	string	<p>Direction in which the name mapping is applied. The possible values are:</p> <ul style="list-style-type: none"> <li>• krb_unix - Kerberos principal name to UNIX user name</li> <li>• win_unix - Windows user name to UNIX user name</li> <li>• unix_win - UNIX user name to Windows user name mapping</li> </ul>
index	integer	Position in the list of name mappings.
pattern	string	<p>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.</p>

Name	Type	Description
replacement	string	The name that is used as a replacement, if the pattern associated with this entry matches.
svm	<a href="#">svm</a>	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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}

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

## Response

Status: 200, Ok

## Error

Status: Default, Error

Name	Type	Description
error	<a href="#">error</a>	

## 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

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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}

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
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
direction	string	path	True	Direction

Name	Type	In	Required	Description
index	integer	path	True	Position of the entry in the list
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
client_match	string	<p>Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats:</p> <ul style="list-style-type: none"> <li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li> <li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li> <li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li> <li>• As a hostname</li> </ul>
direction	string	<p>Direction in which the name mapping is applied. The possible values are:</p> <ul style="list-style-type: none"> <li>• krb_unix - Kerberos principal name to UNIX user name</li> <li>• win_unix - Windows user name to UNIX user name</li> <li>• unix_win - UNIX user name to Windows user name mapping</li> </ul>
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	

### 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	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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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}

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 insert`
- `vserver name-mapping modify`
- `vserver name-mapping swap`

### Learn more

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

### Parameters

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

### Request Body

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	

Name	Type	Description
client_match	string	<p>Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats:</p> <ul style="list-style-type: none"> <li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li> <li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li> <li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li> <li>• As a hostname</li> </ul>
direction	string	<p>Direction in which the name mapping is applied. The possible values are:</p> <ul style="list-style-type: none"> <li>• krb_unix - Kerberos principal name to UNIX user name</li> <li>• win_unix - Windows user name to UNIX user name</li> <li>• unix_win - UNIX user name to Windows user name mapping</li> </ul>
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.

Name	Type	Description
svm	svm	

### Example request

```
{
  "_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"
  }
}
```

### 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 hostname or address configured.

Error Code	Description
	Delete and recreate the new entry at the specified position.

schema: \$ref: "#/definitions/error\_response"

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

name\_mapping

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.

Name	Type	Description
_links	<a href="#">_links</a>	

Name	Type	Description
client_match	string	<p>Client workstation IP Address which is matched when searching for the pattern. You can specify the value in any of the following formats:</p> <ul style="list-style-type: none"> <li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li> <li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li> <li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li> <li>• As a hostname</li> </ul>
direction	string	<p>Direction in which the name mapping is applied. The possible values are:</p> <ul style="list-style-type: none"> <li>• krb_unix - Kerberos principal name to UNIX user name</li> <li>• win_unix - Windows user name to UNIX user name</li> <li>• unix_win - UNIX user name to Windows user name mapping</li> </ul>
index	integer	Position in the list of name mappings.
pattern	string	<p>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.</p>



Name	Type	Description
replacement	string	The name that is used as a replacement, if the pattern associated with this entry matches.
svm	<a href="#">svm</a>	

## 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

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`

### Learn more

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

### Parameters

Name	Type	In	Required	Description
bound_servers	string	query	False	Filter by bound_servers
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
servers	string	query	False	Filter by servers
domain	string	query	False	Filter by domain
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.
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.
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of NIS domain records.
records	array[ <a href="#">nis_service</a> ]	



## Example response

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

## Error

Status: Default, Error

Name	Type	Description
error	<a href="#">error</a>	

### 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	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

nis\_service

Name	Type	Description
_links	<a href="#">_links</a>	
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	<a href="#">svm</a>	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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

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.

## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
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	<a href="#">svm</a>	

### Example request

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

### Response

Status: 201, Created

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of NIS domain records.
records	array[ <a href="#">nis_service</a> ]	

Example response

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

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
1966253	IPv6 is not enabled in the cluster
2621488	Invalid SVM context

Error Code	Description
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
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

Name	Type	Description
error	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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

nis\_service

Name	Type	Description
_links	<a href="#">_links</a>	
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	<a href="#">svm</a>	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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}
```

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	<a href="#">error</a>	

### 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

### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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}

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`

### 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.

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

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
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	<a href="#">svm</a>	

Example response

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

Error

Status: Default, Error

Name	Type	Description
error	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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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}
```



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
_links	<a href="#">_links</a>	
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	<a href="#">svm</a>	

## Example request

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

## 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

Error Code	Description
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
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

Name	Type	Description
error	<a href="#">error</a>	

#### 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	<a href="#">href</a>	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

nis\_service

Name	Type	Description
_links	<a href="#">_links</a>	
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	<a href="#">svm</a>	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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