



Name-services

ONTAP 9.9.1 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 all SVMs. DNS configuration for the cluster is retrieved via [/api/cluster](#) .

Examples

Retrieving all of the fields for all of the DNS configurations

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

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

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "27eff5d8-22b2-11eb-8038-0050568ed32c",
        "name": "clust-1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
          }
        }
      }
    }
  ]
}
```

```

    }
  },
  "domains": [
    "domain.example.com"
  ],
  "servers": [
    "44.44.44.44"
  ],
  "timeout": 2,
  "attempts": 1,
  "scope": "cluster",
  "_links": {
    "self": {
      "href": "/api/name-services/dns/27eff5d8-22b2-11eb-8038-0050568ed32c"
    }
  }
},
{
  "svm": {
    "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
    "name": "vs1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
      }
    }
  },
  "domains": [
    "domainA.example.com"
  ],
  "servers": [
    "10.10.10.10"
  ],
  "timeout": 2,
  "attempts": 1,
  "dynamic_dns": {
    "enabled": false,
    "use_secure": false,
    "time_to_live": "PT1H"
  },
  "scope": "svm",
  "_links": {
    "self": {
      "href": "/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1"
    }
  }
}

```

```

    }
  }
},
{
  "svm": {
    "uuid": "19076d35-6e27-11e8-b9b8-005056b41bd1",
    "name": "vs2",
    "_links": {
      "self": {
        "href": "/api/svm/svms/19076d35-6e27-11e8-b9b8-005056b41bd1"
      }
    }
  },
  "domains": [
    "sample.example.com"
  ],
  "servers": [
    "11.11.11.11",
    "22.22.22.22",
    "33.33.33.33"
  ],
  "timeout": 2,
  "attempts": 2,
  "dynamic_dns": {
    "enabled": true,
    "use_secure": false,
    "time_to_live": "PT3H"
  },
  "scope": "svm",
  "_links": {
    "self": {
      "href": "/api/name-services/dns/19076d35-6e27-11e8-b9b8-005056b41bd1"
    }
  }
},
],
"num_records": 3,
"_links": {
  "self": {
    "href": "/api/name-services/dns?fields=*"
  }
}
}
}

```

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

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

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

# The response:
{
  "records": [
    {
      "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"
  ],
  "timeout":2,
  "attempts":1,
  "tld_query_enabled": true,
  "source_address_match": true,
  "packet_query_match": true,
  "dynamic_dns": {
    "enabled": false,
    "use_secure": false,
    "time_to_live": "P1D"
  },
  "scope": "svm",
  "_links": {
    "self": {
      "href": "/api/name-services/dns/179d3c85-7053-11e8-b9b8-005056b41bd1"
    }
  }
}
```

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

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

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

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



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

Creating a DNS configuration

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

Examples

Specifying only the required fields

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

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

Specifying the optional fields as well

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

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

Specifying the scope of the SVM

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

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

Updating a DNS configuration

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

Examples

Updating both the DNS domains and servers

```
# The API:
/api/name-services/dns/{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\" ] }"
```

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

```
# 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 "{ \"timeout\":2, \"attempts\":3,
\"source_address_match\":true}"
```

Updating the Dynamic DNS related fields

```
# 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 "{ \"timeout\":2, \"attempts\":3,
\"dynamic_dns.enabled\": \"true\", \"dynamic_dns.time_to_live\": \"20h\"}"
```

Deleting a DNS configuration

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

Example

The following example shows a DELETE operation.

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

Introduced In: 9.6

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

Advanced properties

- 'tld_query_enabled'
- 'source_address_match'
- 'packet_query_match'
- 'status' property retrieves the status of each name server of the DNS configuration for an SVM.

Related ONTAP commands

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

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|---------------------------|---------|-------|----------|---|
| dynamic_dns.enabled | boolean | query | False | Filter by dynamic_dns.enabled • Introduced in: 9.9 |
| dynamic_dns.fqdn | string | query | False | Filter by dynamic_dns.fqdn • Introduced in: 9.9 |
| dynamic_dns.time_t_o_live | string | query | False | Filter by dynamic_dns.time_t_o_live • Introduced in: 9.9 |
| dynamic_dns.use_secure | boolean | query | False | Filter by dynamic_dns.use_secure • Introduced in: 9.9 |
| domains | string | query | False | Filter by domains |

| Name | Type | In | Required | Description |
|----------------------|---------|-------|----------|--|
| 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 |
| attempts | integer | query | False | Filter by attempts • Introduced in: 9.9 |
| source_address_match | boolean | query | False | Filter by source_address_match • Introduced in: 9.9 |
| tld_query_enabled | boolean | query | False | Filter by tld_query_enabled • Introduced in: 9.9 |
| status.name_server | string | query | False | Filter by status.name_server • Introduced in: 9.9 |
| status.state | string | query | False | Filter by status.state • Introduced in: 9.9 |
| status.message | string | query | False | Filter by status.message • Introduced in: 9.9 |
| status.code | integer | query | False | Filter by status.code • Introduced in: 9.9 |

| Name | Type | In | Required | Description |
|--------------------|---------------|-------|----------|---|
| scope | string | query | False | Filter by scope <ul style="list-style-type: none"> • Introduced in: 9.9 |
| timeout | integer | query | False | Filter by timeout <ul style="list-style-type: none"> • Introduced in: 9.9 |
| packet_query_match | boolean | query | False | Filter by packet_query_match <ul style="list-style-type: none"> • Introduced in: 9.9 |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned. <ul style="list-style-type: none"> • Default value: 1 |
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0 |

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

Response

Status: 200, Ok

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

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.


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

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

dynamic_dns

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

status

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

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

svm

| Name | Type | Description |
|------------------------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

dns

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

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

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

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Create DNS domain and server configurations

POST /name-services/dns

Introduced In: 9.6

Creates DNS domain and server configurations for an SVM.

Important notes

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

The validation fails in the following scenarios:

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

The following parameters are optional:

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

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_records | boolean | query | False | The default is false. If set to true, the records are returned. <ul style="list-style-type: none">• Default value: |

Request Body

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

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

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

Example request

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

Response

```
Status: 201, Created
```

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

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "domains": [
      "example.com",
      "example2.example3.com"
    ],
    "dynamic_dns": {
      "fqdn": "example.com",
      "time_to_live": "P2D"
    },
    "scope": "svm",
    "servers": [
      "10.224.65.20",
      "2001:db08:a0b:12f0::1"
    ],
    "status": {
      "code": "6684732",
      "name_server": "10.10.10.10",
      "state": "up"
    },
    "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 |
| 8847403 | Scope specified is invalid for the specified SVM |
| 9240587 | FQDN name cannot be empty |
| 9240588 | FQDN name is too long. Maximum supported length: 255 characters |
| 9240590 | FQDN name is reserved. Following names are reserved: "all", "local" and "localhost" |
| 9240607 | One of the FQDN labels is too long. Maximum supported length is 63 characters |
| 13434916 | The SVM is in the process of being created. Wait a few minutes, and then try the command again. |
| 23724130 | Cannot use an IPv6 name server address because there are no IPv6 LIFs |

| 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 | href | |

dynamic_dns

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

status

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

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

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

svm

| Name | Type | Description |
|------------------------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

dns

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

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

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

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Delete a DNS domain configuration

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

Introduced In: 9.6

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 | error | |

Example error

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

Definitions

See Definitions

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Retrieve DNS domain and server configurations

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

Introduced In: 9.6

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

Advanced properties

- 'tld_query_enabled'
- 'source_address_match'
- 'packet_query_match'
- 'status' property retrieves the status of each name server of the DNS configuration for an SVM.

Related ONTAP commands

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

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 | _links | |
| attempts | integer | Number of attempts allowed when querying the DNS name servers. |

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

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

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "domains": [
    "example.com",
    "example2.example3.com"
  ],
  "dynamic_dns": {
    "fqdn": "example.com",
    "time_to_live": "P2D"
  },
  "scope": "svm",
  "servers": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "status": {
    "code": "6684732",
    "name_server": "10.10.10.10",
    "state": "up"
  },
  "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 | href | |

dynamic_dns

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

status

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

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

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

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| 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[error_arguments] | 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}

Introduced In: 9.6

Updates DNS domain and server configurations of an SVM.

Important notes

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

The validation fails in the following scenarios:

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

The following parameters are optional:

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

Related ONTAP commands

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

Learn more

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

Parameters

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

Request Body

| Name | Type | Description |
|-------------|-----------------------------|---|
| _links | _links | |
| attempts | integer | Number of attempts allowed when querying the DNS name servers. |
| domains | array[string] | <p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none">• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-" or "_".• The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9.• The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9.• The top level domain must contain only the following characters: A through Z, a through z.• The system reserves the following names: "all", "local", and "localhost". |
| dynamic_dns | dynamic_dns | |

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

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "domains": [
    "example.com",
    "example2.example3.com"
  ],
  "dynamic_dns": {
    "fqdn": "example.com",
    "time_to_live": "P2D"
  },
  "scope": "svm",
  "servers": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ],
  "status": {
    "code": "6684732",
    "name_server": "10.10.10.10",
    "state": "up"
  },
  "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 |
| 8847362 | Exceeded the maximum number of name servers allowed. Maximum of three name servers only |
| 8847376 | FQDN is mandatory if dynamic DNS update is being enabled. |
| 8847380 | Secure updates can be enabled only after a CIFS server or an Active Directory account has been created for the SVM. |
| 8847381 | A unique FQDN must be specified for each SVM. |
| 8847383 | The specified TTL exceeds the maximum supported value of 720 hours. |
| 8847392 | Domain name cannot be an IP address |
| 8847393 | Top level domain name is invalid |
| 8847394 | FQDN name violated the limitations |
| 8847399 | One or more of the specified DNS servers do not exist or cannot be reached |
| 8847404 | Dynamic DNS is applicable only for data SVMs |
| 8847405 | DNS parameters updated successfully; however the update of Dynamic DNS-related parameters has failed. |
| 9240587 | FQDN name cannot be empty |
| 9240588 | FQDN name is too long. Maximum supported length: 255 characters |
| 9240590 | FQDN name is reserved. Following names are reserved: "all", "local" and "localhost" |
| 9240607 | One of the FQDN labels is too long. Maximum supported length is 63 characters |
| 9240608 | FQDN does not contain a ".". At least one "." is mandatory for an FQDN. |
| 9240607 | A label of the FQDN is too long (73 characters). Maximum supported length for each label is 63 characters. |

| Error Code | Description |
|------------|---|
| 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 | href | |

dynamic_dns

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

status

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

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

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

svm

| Name | Type | Description |
|------------------------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

dns

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

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

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

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Manage LDAP server configurations

Name-services LDAP endpoint overview

Overview

LDAP servers are used to centrally maintain user information. LDAP configurations must be set up to lookup

information stored in the LDAP directory on the external LDAP servers. This API is used to retrieve and manage LDAP server configurations.

Retrieving LDAP information

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

Examples

Retrieving all of the fields for all LDAP configurations

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

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

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

```

"query_timeout": 3,
"is_owner": true,
"user_scope": "subtree",
"group_scope": "subtree",
"netgroup_scope": "subtree",
"is_netgroup_byhost_enabled": false,
"netgroup_byhost_scope": "subtree",
"group_membership_filter": "",
"status": {
  "state": "down",
  "message": "The LDAP configuration is invalid. Verify that the AD
domain or servers are reachable and that the network configuration is
correct",
  "dn_message": [
    "No LDAP DN configured"
  ],
  "code": 4915258
},
"_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,
  "ldaps_enabled": false,
  "min_bind_level": "simple",
  "bind_dn": "cn=Administrators,cn=users,dc=domainB,dc=example,dc=com",
  "base_dn": "dc=domainB,dc=example,dc=com",
  "base_scope": "subtree",
  "use_start_tls": true,

```



```

"session_security": "sign",
"referral_enabled": false,
"bind_as_cifs_server": false,
"query_timeout": 0,
"is_owner": true,
"user_scope": "subtree",
"group_scope": "subtree",
"netgroup_scope": "subtree",
"is_netgroup_byhost_enabled": false,
"netgroup_byhost_scope": "subtree",
"group_membership_filter": "",
"status": {
  "state": "up",
  "message": "Successfully connected to LDAP server
\"172.20.192.44\".",
  "dn_message": [
    "All the configured DNs are available."
  ],
  "code": 0
},
"_links": {
  "self": {
    "href": "/api/name-services/ldap/6a52023b-7066-11e8-b9b8-
005056b41bd1"
  }
}
],
"num_records": 2,
"_links": {
  "self": {
    "href": "/api/name-services/ldap?fields=*"
  }
}
}
}

```

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

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

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

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

Retrieving the LDAP configuration of a specific SVM

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

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

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

Retrieving all the fields of 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?fields=*" -H "accept: application/json"

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

```

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

```

Retrieving the LDAP server status of a specific SVM

```

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

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

# The response:
{
  "svm": {
    "uuid": "9e4a2e3b-f66f-11ea-aec8-0050568e155c",
    "name": "vs2"
  },
  "status": {
    "state": "up",
    "message": "Successfully connected to LDAP server \"172.20.192.44\".",
    "code": 0
  }
}

```

Creating an LDAP configuration

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

Examples

Creating an LDAP configuration with all the fields specified

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

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

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

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

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

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

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

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

Updating an LDAP configuration

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

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

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

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

Introduced In: 9.6

Retrieves the LDAP configurations for all SVMs.

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|-------|----------|--|
| netgroup_dn | string | query | False | Filter by netgroup_dn <ul style="list-style-type: none"> Introduced in: 9.9 |

| Name | Type | In | Required | Description |
|----------------------|---------|-------|----------|--|
| session_security | string | query | False | Filter by session_security • Introduced in: 9.7 |
| group_scope | string | query | False | Filter by group_scope • Introduced in: 9.9 |
| schema | string | query | False | Filter by schema • Introduced in: 9.7 |
| bind_dn | string | query | False | Filter by bind_dn • Introduced in: 9.7 |
| base_scope | string | query | False | Filter by base_scope • Introduced in: 9.7 |
| port | integer | query | False | Filter by port • Introduced in: 9.7 |
| preferred_ad_servers | string | query | False | Filter by preferred_ad_servers • Introduced in: 9.7 |
| referral_enabled | boolean | query | False | Filter by referral_enabled • Introduced in: 9.9 |

| Name | Type | In | Required | Description |
|----------------------------|---------|-------|----------|--|
| netgroup_byhost_scope | string | query | False | Filter by netgroup_byhost_scope • Introduced in: 9.9 |
| query_timeout | integer | query | False | Filter by query_timeout • Introduced in: 9.9 |
| is_netgroup_byhost_enabled | boolean | query | False | Filter by is_netgroup_byhost_enabled • Introduced in: 9.9 |
| ldaps_enabled | boolean | query | False | Filter by ldaps_enabled • Introduced in: 9.9 |
| min_bind_level | string | query | False | Filter by min_bind_level • Introduced in: 9.7 |
| ad_domain | string | query | False | Filter by ad_domain • Introduced in: 9.7 |
| status.code | integer | query | False | Filter by status.code • Introduced in: 9.9 |
| status.dn_message | string | query | False | Filter by status.dn_message • Introduced in: 9.9 |

| Name | Type | In | Required | Description |
|-------------------------|---------|-------|----------|---|
| status.state | string | query | False | Filter by status.state • Introduced in: 9.9 |
| status.message | string | query | False | Filter by status.message • Introduced in: 9.9 |
| user_dn | string | query | False | Filter by user_dn • Introduced in: 9.9 |
| user_scope | string | query | False | Filter by user_scope • Introduced in: 9.9 |
| base_dn | string | query | False | Filter by base_dn • Introduced in: 9.7 |
| netgroup_scope | string | query | False | Filter by netgroup_scope • Introduced in: 9.9 |
| is_owner | boolean | query | False | Filter by is_owner • Introduced in: 9.9 |
| use_start_tls | boolean | query | False | Filter by use_start_tls • Introduced in: 9.7 |
| group_membership_filter | string | query | False | Filter by group_membership_filter • Introduced in: 9.9 |

| Name | Type | In | Required | Description |
|---------------------|---------------|-------|----------|--|
| netgroup_byhost_dn | string | query | False | Filter by netgroup_byhost_dn <ul style="list-style-type: none"> • Introduced in: 9.9 |
| servers | string | query | False | Filter by servers <ul style="list-style-type: none"> • Introduced in: 9.7 |
| bind_as_cifs_server | boolean | query | False | Filter by bind_as_cifs_server <ul style="list-style-type: none"> • Introduced in: 9.9 |
| svm.uuid | string | query | False | Filter by svm.uuid <ul style="list-style-type: none"> • Introduced in: 9.7 |
| svm.name | string | query | False | Filter by svm.name <ul style="list-style-type: none"> • Introduced in: 9.7 |
| group_dn | string | query | False | Filter by group_dn <ul style="list-style-type: none"> • Introduced in: 9.9 |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned. <ul style="list-style-type: none"> • Default value: 1 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| return_timeout | integer | query | False | <p>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.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

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

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "base_scope": "base",
    "group_scope": "base",
    "min_bind_level": "anonymous",
    "netgroup_byhost_scope": "base",
    "netgroup_scope": "base",
    "port": "389",
    "preferred_ad_servers": {
    },
    "servers": {
    },
    "session_security": "none",
    "status": {
      "code": "65537300",
      "dn_message": {
      },
      "state": "up"
    },
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "user_scope": "base"
  }
}

```

Error

Status: Default

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

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

| Name | Type | Description |
|-------|-----------------------|-------------|
| error | error | |

Example error

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

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

status

| Name | Type | Description |
|------------|---------------|--|
| code | integer | Code corresponding to the status message. |
| dn_message | array[string] | |
| message | string | Provides additional details on the status of the LDAP service. |
| state | string | Specifies the status of the LDAP service. |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

ldap_service

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

| 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"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| bind_as_cifs_server | boolean | Specifies whether or not CIFS server's credentials are used to bind to the LDAP server. |
| bind_dn | string | Specifies the user that binds to the LDAP servers. |
| bind_password | string | Specifies the bind password for the LDAP servers. |
| group_dn | string | Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups. |
| group_membership_filter | string | Specifies the custom filter used for group membership lookups from an LDAP server. |

| Name | Type | Description |
|----------------------------|---------|--|
| group_scope | string | Specifies the default search scope for LDAP for group lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| is_netgroup_byhost_enabled | boolean | Specifies whether or not netgroup by host querying is enabled. |
| is_owner | boolean | Specifies whether or not the SVM owns the LDAP client configuration. |
| ldaps_enabled | boolean | Specifies whether or not LDAPS is enabled. |
| min_bind_level | string | The minimum bind authentication level. Possible values are: <ul style="list-style-type: none"> • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind |
| netgroup_byhost_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups. |

| Name | Type | Description |
|-----------------------|---------------|---|
| netgroup_byhost_scope | string | Specifies the default search scope for LDAP for netgroup by host lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| netgroup_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups. |
| netgroup_scope | string | Specifies the default search scope for LDAP for netgroup lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| port | integer | The port used to connect to the LDAP Servers. |
| preferred_ad_servers | array[string] | |
| query_timeout | integer | Specifies the maximum time to wait for a query response from the LDAP server, in seconds. |
| referral_enabled | boolean | Specifies whether or not LDAP referral is enabled. |

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

| Name | Type | Description |
|------------|--------|---|
| user_scope | string | Specifies the default search scope for LDAP for user lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Create an LDAP configuration for an SVM

POST /name-services/ldap

Introduced In: 9.6

Creates an LDAP configuration for an SVM.

Important notes

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

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

The following parameters are optional:

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

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

LDAP validation fails in the following scenarios:

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

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|---|
| return_records | boolean | query | False | <p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> • Default value: |

Request Body

| Name | Type | Description |
|---------------------|------------------------|---|
| _links | _links | |
| ad_domain | string | This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST and PATCH. |
| base_dn | string | Specifies the default base DN for all searches. |
| base_scope | string | <p>Specifies the default search scope for LDAP queries:</p> <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| bind_as_cifs_server | boolean | Specifies whether or not CIFS server's credentials are used to bind to the LDAP server. |
| bind_dn | string | Specifies the user that binds to the LDAP servers. |
| bind_password | string | Specifies the bind password for the LDAP servers. |
| group_dn | string | Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups. |

| Name | Type | Description |
|----------------------------|---------|---|
| group_membership_filter | string | Specifies the custom filter used for group membership lookups from an LDAP server. |
| group_scope | string | <p>Specifies the default search scope for LDAP for group lookups:</p> <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| is_netgroup_byhost_enabled | boolean | Specifies whether or not netgroup by host querying is enabled. |
| is_owner | boolean | Specifies whether or not the SVM owns the LDAP client configuration. |
| ldaps_enabled | boolean | Specifies whether or not LDAPS is enabled. |
| min_bind_level | string | <p>The minimum bind authentication level. Possible values are:</p> <ul style="list-style-type: none"> • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind |
| netgroup_byhost_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups. |

| Name | Type | Description |
|-----------------------|---------------|--|
| netgroup_byhost_scope | string | <p>Specifies the default search scope for LDAP for netgroup by host lookups:</p> <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| netgroup_dn | string | <p>Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.</p> |
| netgroup_scope | string | <p>Specifies the default search scope for LDAP for netgroup lookups:</p> <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| port | integer | <p>The port used to connect to the LDAP Servers.</p> |
| preferred_ad_servers | array[string] | |
| query_timeout | integer | <p>Specifies the maximum time to wait for a query response from the LDAP server, in seconds.</p> |
| referral_enabled | boolean | <p>Specifies whether or not LDAP referral is enabled.</p> |

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

| Name | Type | Description |
|------------|--------|--|
| user_scope | string | <p data-bbox="1044 153 1487 222">Specifies the default search scope for LDAP for user lookups:</p> <ul data-bbox="1068 254 1487 527" style="list-style-type: none"><li data-bbox="1068 254 1487 323">• base - search the named entry only<li data-bbox="1068 338 1487 407">• onelevel - search all entries immediately below the DN<li data-bbox="1068 422 1487 527">• subtree - search the named DN entry and the entire subtree below the DN |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "base_scope": "base",
  "group_scope": "base",
  "min_bind_level": "anonymous",
  "netgroup_byhost_scope": "base",
  "netgroup_scope": "base",
  "port": "389",
  "preferred_ad_servers": {
  },
  "servers": {
  },
  "session_security": "none",
  "status": {
    "code": "65537300",
    "dn_message": {
    },
    "state": "up"
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "user_scope": "base"
}
```

Response

```
Status: 201, Created
```

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

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.


```

{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "base_scope": "base",
    "group_scope": "base",
    "min_bind_level": "anonymous",
    "netgroup_byhost_scope": "base",
    "netgroup_scope": "base",
    "port": "389",
    "preferred_ad_servers": {
    },
    "servers": {
    },
    "session_security": "none",
    "status": {
      "code": "65537300",
      "dn_message": {
      },
      "state": "up"
    },
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "user_scope": "base"
  }
}

```

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. |
| 4915265 | The specified bind password or bind DN is invalid |
| 4915264 | Certificate verification failed. Verify that a valid certificate is installed |

| Error Code | Description |
|------------|---|
| 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 | error | |

Example error

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

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

status

| Name | Type | Description |
|------------|---------------|--|
| code | integer | Code corresponding to the status message. |
| dn_message | array[string] | |
| message | string | Provides additional details on the status of the LDAP service. |
| state | string | Specifies the status of the LDAP service. |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

ldap_service

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

| 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"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| bind_as_cifs_server | boolean | Specifies whether or not CIFS server's credentials are used to bind to the LDAP server. |
| bind_dn | string | Specifies the user that binds to the LDAP servers. |
| bind_password | string | Specifies the bind password for the LDAP servers. |
| group_dn | string | Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups. |
| group_membership_filter | string | Specifies the custom filter used for group membership lookups from an LDAP server. |

| Name | Type | Description |
|----------------------------|---------|--|
| group_scope | string | Specifies the default search scope for LDAP for group lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| is_netgroup_byhost_enabled | boolean | Specifies whether or not netgroup by host querying is enabled. |
| is_owner | boolean | Specifies whether or not the SVM owns the LDAP client configuration. |
| ldaps_enabled | boolean | Specifies whether or not LDAPS is enabled. |
| min_bind_level | string | The minimum bind authentication level. Possible values are: <ul style="list-style-type: none"> • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind |
| netgroup_byhost_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups. |

| Name | Type | Description |
|-----------------------|---------------|---|
| netgroup_byhost_scope | string | Specifies the default search scope for LDAP for netgroup by host lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| netgroup_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups. |
| netgroup_scope | string | Specifies the default search scope for LDAP for netgroup lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| port | integer | The port used to connect to the LDAP Servers. |
| preferred_ad_servers | array[string] | |
| query_timeout | integer | Specifies the maximum time to wait for a query response from the LDAP server, in seconds. |
| referral_enabled | boolean | Specifies whether or not LDAP referral is enabled. |

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

| Name | Type | Description |
|------------|--------|---|
| user_scope | string | Specifies the default search scope for LDAP for user lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Delete the LDAP configuration for an SVM

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

Introduced In: 9.6

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

Parameters

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

Response

Status: 200, Ok

Error

Status: Default, Error

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

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

Definitions

See Definitions

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Retrieve the LDAP configuration for an SVM

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

Introduced In: 9.6

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

Parameters

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

Response

Status: 200, Ok

| Name | Type | Description |
|--------------------------------------|-------------------------------------|---|
| <code>_links</code> | <code>_links</code> | |
| <code>ad_domain</code> | string | This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST and PATCH. |
| <code>base_dn</code> | string | Specifies the default base DN for all searches. |
| <code>base_scope</code> | string | Specifies the default search scope for LDAP queries: <ul style="list-style-type: none"> • <code>base</code> - search the named entry only • <code>onelevel</code> - search all entries immediately below the DN • <code>subtree</code> - search the named DN entry and the entire subtree below the DN |
| <code>bind_as_cifs_server</code> | boolean | Specifies whether or not CIFS server's credentials are used to bind to the LDAP server. |
| <code>bind_dn</code> | string | Specifies the user that binds to the LDAP servers. |
| <code>bind_password</code> | string | Specifies the bind password for the LDAP servers. |
| <code>group_dn</code> | string | Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups. |
| <code>group_membership_filter</code> | string | Specifies the custom filter used for group membership lookups from an LDAP server. |

| Name | Type | Description |
|----------------------------|---------|---|
| group_scope | string | Specifies the default search scope for LDAP for group lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| is_netgroup_byhost_enabled | boolean | Specifies whether or not netgroup by host querying is enabled. |
| is_owner | boolean | Specifies whether or not the SVM owns the LDAP client configuration. |
| ldaps_enabled | boolean | Specifies whether or not LDAPS is enabled. |
| min_bind_level | string | The minimum bind authentication level. Possible values are: <ul style="list-style-type: none"> • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind |
| netgroup_byhost_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups. |
| netgroup_byhost_scope | string | Specifies the default search scope for LDAP for netgroup by host lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |

| Name | Type | Description |
|----------------------|---------------|--|
| netgroup_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups. |
| netgroup_scope | string | Specifies the default search scope for LDAP for netgroup lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| port | integer | The port used to connect to the LDAP Servers. |
| preferred_ad_servers | array[string] | |
| query_timeout | integer | Specifies the maximum time to wait for a query response from the LDAP server, in seconds. |
| referral_enabled | boolean | Specifies whether or not LDAP referral is enabled. |
| schema | string | The name of the schema template used by the SVM. <ul style="list-style-type: none"> • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema |
| servers | array[string] | |

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

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "base_scope": "base",
  "group_scope": "base",
  "min_bind_level": "anonymous",
  "netgroup_byhost_scope": "base",
  "netgroup_scope": "base",
  "port": "389",
  "preferred_ad_servers": {
  },
  "servers": {
  },
  "session_security": "none",
  "status": {
    "code": "65537300",
    "dn_message": {
    },
    "state": "up"
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "user_scope": "base"
}
```

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 | href | |

status

| Name | Type | Description |
|------------|---------------|--|
| code | integer | Code corresponding to the status message. |
| dn_message | array[string] | |
| message | string | Provides additional details on the status of the LDAP service. |
| state | string | Specifies the status of the LDAP service. |

svm

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

Update the LDAP configuration for an SVM

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

Introduced In: 9.6

Updates an LDAP configuration of an SVM.

Important notes

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

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

LDAP validation fails in the following scenarios:

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

Parameters

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

Request Body

| Name | Type | Description |
|--------------------------------------|-------------------------------------|---|
| <code>_links</code> | <code>_links</code> | |
| <code>ad_domain</code> | string | This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST and PATCH. |
| <code>base_dn</code> | string | Specifies the default base DN for all searches. |
| <code>base_scope</code> | string | Specifies the default search scope for LDAP queries: <ul style="list-style-type: none"> • <code>base</code> - search the named entry only • <code>onelevel</code> - search all entries immediately below the DN • <code>subtree</code> - search the named DN entry and the entire subtree below the DN |
| <code>bind_as_cifs_server</code> | boolean | Specifies whether or not CIFS server's credentials are used to bind to the LDAP server. |
| <code>bind_dn</code> | string | Specifies the user that binds to the LDAP servers. |
| <code>bind_password</code> | string | Specifies the bind password for the LDAP servers. |
| <code>group_dn</code> | string | Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups. |
| <code>group_membership_filter</code> | string | Specifies the custom filter used for group membership lookups from an LDAP server. |

| Name | Type | Description |
|----------------------------|---------|---|
| group_scope | string | Specifies the default search scope for LDAP for group lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| is_netgroup_byhost_enabled | boolean | Specifies whether or not netgroup by host querying is enabled. |
| is_owner | boolean | Specifies whether or not the SVM owns the LDAP client configuration. |
| ldaps_enabled | boolean | Specifies whether or not LDAPS is enabled. |
| min_bind_level | string | The minimum bind authentication level. Possible values are: <ul style="list-style-type: none"> • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind |
| netgroup_byhost_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups. |
| netgroup_byhost_scope | string | Specifies the default search scope for LDAP for netgroup by host lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |

| Name | Type | Description |
|----------------------|---------------|--|
| netgroup_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups. |
| netgroup_scope | string | Specifies the default search scope for LDAP for netgroup lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| port | integer | The port used to connect to the LDAP Servers. |
| preferred_ad_servers | array[string] | |
| query_timeout | integer | Specifies the maximum time to wait for a query response from the LDAP server, in seconds. |
| referral_enabled | boolean | Specifies whether or not LDAP referral is enabled. |
| schema | string | The name of the schema template used by the SVM. <ul style="list-style-type: none"> • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema |
| servers | array[string] | |

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

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "base_scope": "base",
  "group_scope": "base",
  "min_bind_level": "anonymous",
  "netgroup_byhost_scope": "base",
  "netgroup_scope": "base",
  "port": "389",
  "preferred_ad_servers": {
  },
  "servers": {
  },
  "session_security": "none",
  "status": {
    "code": "65537300",
    "dn_message": {
    },
    "state": "up"
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "user_scope": "base"
}
```

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. |
| 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 | href | |

status

| Name | Type | Description |
|------------|---------------|--|
| code | integer | Code corresponding to the status message. |
| dn_message | array[string] | |
| message | string | Provides additional details on the status of the LDAP service. |
| state | string | Specifies the status of the LDAP service. |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

ldap_service

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

| 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"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| bind_as_cifs_server | boolean | Specifies whether or not CIFS server's credentials are used to bind to the LDAP server. |
| bind_dn | string | Specifies the user that binds to the LDAP servers. |
| bind_password | string | Specifies the bind password for the LDAP servers. |
| group_dn | string | Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups. |
| group_membership_filter | string | Specifies the custom filter used for group membership lookups from an LDAP server. |

| Name | Type | Description |
|----------------------------|---------|--|
| group_scope | string | Specifies the default search scope for LDAP for group lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| is_netgroup_byhost_enabled | boolean | Specifies whether or not netgroup by host querying is enabled. |
| is_owner | boolean | Specifies whether or not the SVM owns the LDAP client configuration. |
| ldaps_enabled | boolean | Specifies whether or not LDAPS is enabled. |
| min_bind_level | string | The minimum bind authentication level. Possible values are: <ul style="list-style-type: none"> • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind |
| netgroup_byhost_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups. |

| Name | Type | Description |
|-----------------------|---------------|---|
| netgroup_byhost_scope | string | Specifies the default search scope for LDAP for netgroup by host lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| netgroup_dn | string | Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups. |
| netgroup_scope | string | Specifies the default search scope for LDAP for netgroup lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |
| port | integer | The port used to connect to the LDAP Servers. |
| preferred_ad_servers | array[string] | |
| query_timeout | integer | Specifies the maximum time to wait for a query response from the LDAP server, in seconds. |
| referral_enabled | boolean | Specifies whether or not LDAP referral is enabled. |

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

| Name | Type | Description |
|------------|--------|---|
| user_scope | string | Specifies the default search scope for LDAP for user lookups: <ul style="list-style-type: none"> • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Manage name mappings for SVMs

Name-services name-mappings endpoint overview

Overview

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

The system keeps a set of conversion rules for each Storage Virtual Machine (SVM). Each rule consists of two pieces: a pattern and a replacement. Conversions start at the beginning of the appropriate list and perform a substitution based on the first matching rule. The pattern is a UNIX-style regular expression. The replacement

is a string containing escape sequences representing subexpressions from the pattern, as in the UNIX sed program.

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

Examples

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

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

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

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

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

Creating a name-mapping with `client_match` as the hostname

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

```

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

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/name-
mappings?return_records=true" -H "accept: application/json" -H "Content-
Type: 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": "ENGCIFS_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\": \"ENGCIFS_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\": \"ENGCIFS_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

Introduced In: 9.6

Retrieves the name mapping configuration for all SVMs.

Related ONTAP commands

- `vserver name-mapping show`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|--------------|---------|-------|----------|------------------------|
| index | integer | query | False | Filter by index |
| pattern | string | query | False | Filter by pattern |
| svm.uuid | string | query | False | Filter by svm.uuid |
| svm.name | string | query | False | Filter by svm.name |
| client_match | string | query | False | Filter by client_match |
| direction | string | query | False | Filter by direction |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|---|
| replacement | string | query | False | Filter by replacement |
| 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. <ul style="list-style-type: none"> • Default value: 1 |
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

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

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 | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| 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 | _links | |

| 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"> • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname |
| direction | string | <p>Direction in which the name mapping is applied. The possible values are:</p> <ul style="list-style-type: none"> • krb_unix - Kerberos principal name to UNIX user name • win_unix - Windows user name to UNIX user name • unix_win - UNIX user name to Windows user name mapping |
| 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 | svm | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Create hostname mappings for an SVM

POST /name-services/name-mappings

Introduced In: 9.6

Creates name mappings for an SVM.

Required properties

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

Recommended optional properties

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

Related ONTAP commands

- `vserver name-mapping create`
- `vserver name-mapping insert`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|-----------------------------|---------|-------|----------|---|
| <code>return_records</code> | boolean | query | False | The default is false. If set to true, the records are returned. <ul style="list-style-type: none">• Default value: |

Request Body

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

| Name | Type | Description |
|-------------|---------|---|
| direction | string | Direction in which the name mapping is applied. The possible values are: <ul style="list-style-type: none"> • krb_unix - Kerberos principal name to UNIX user name • win_unix - Windows user name to UNIX user name • unix_win - UNIX user name to Windows user name mapping |
| index | integer | Position in the list of name mappings. |
| pattern | string | Pattern used to match the name while searching for a name that can be used as a replacement. The pattern is a UNIX-style regular expression. Regular expressions are case-insensitive when mapping from Windows to UNIX, and they are case-sensitive for mappings from Kerberos to UNIX and UNIX to Windows. |
| replacement | string | The name that is used as a replacement, if the pattern associated with this entry matches. |
| svm | svm | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "client_match": "10.254.101.111/28",
  "direction": "win_unix",
  "index": "1",
  "pattern": "ENGCIFS_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 | _links | |
| num_records | integer | Number of records |
| records | array[name_mapping] | |

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 | href | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| 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 | _links | |

| 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"> • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname |
| direction | string | <p>Direction in which the name mapping is applied. The possible values are:</p> <ul style="list-style-type: none"> • krb_unix - Kerberos principal name to UNIX user name • win_unix - Windows user name to UNIX user name • unix_win - UNIX user name to Windows user name mapping |
| 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 | svm | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Delete the name mapping configuration

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

Introduced In: 9.6

Deletes the name mapping configuration.

Related ONTAP commands

- `vserver name-mapping delete`

Learn more

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

Parameters

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

Response

Status: 200, Ok

Error

Status: Default, Error

| Name | Type | Description |
|-------|-----------------------|-------------|
| error | error | |

Example error

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

Definitions

See Definitions

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Retrieve the name mapping configuration for an SVM

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

Introduced In: 9.6

Retrieves the name mapping configuration of an SVM.

Related ONTAP commands

- `vserver name-mapping show`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|-----------|--------|------|----------|-------------|
| direction | string | path | True | Direction |

| Name | Type | In | Required | Description |
|----------|---------------|-------|----------|---|
| index | integer | path | True | Position of the entry in the list |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|------------------------|------------------------|---|
| _links | _links | |
| 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"> • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname |

| Name | Type | Description |
|-------------|---------|---|
| direction | string | Direction in which the name mapping is applied. The possible values are: <ul style="list-style-type: none"> • krb_unix - Kerberos principal name to UNIX user name • win_unix - Windows user name to UNIX user name • unix_win - UNIX user name to Windows user name mapping |
| index | integer | Position in the list of name mappings. |
| pattern | string | Pattern used to match the name while searching for a name that can be used as a replacement. The pattern is a UNIX-style regular expression. Regular expressions are case-insensitive when mapping from Windows to UNIX, and they are case-sensitive for mappings from Kerberos to UNIX and UNIX to Windows. |
| replacement | string | The name that is used as a replacement, if the pattern associated with this entry matches. |
| svm | svm | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "client_match": "10.254.101.111/28",
  "direction": "win_unix",
  "index": "1",
  "pattern": "ENGCIFS_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 | href | |

svm

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

Update the name mapping configuration for an SVM

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

Introduced In: 9.6

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

Related ONTAP commands

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

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|-----------|---------|-------|----------|--|
| direction | string | path | True | Direction |
| index | integer | path | True | Position of the entry in the list |
| new_index | integer | query | False | New position of the Index after a swap is completed. <ul style="list-style-type: none">• Introduced in: 9.7 |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |

Request Body

| Name | Type | Description |
|---------------------|------------------------|-------------|
| <code>_links</code> | _links | |

| 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"> • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname |
| direction | string | <p>Direction in which the name mapping is applied. The possible values are:</p> <ul style="list-style-type: none"> • krb_unix - Kerberos principal name to UNIX user name • win_unix - Windows user name to UNIX user name • unix_win - UNIX user name to Windows user name mapping |
| 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. |

| 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": "ENGCIFS_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 | href | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| 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 | _links | |

| 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"> • As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24 • As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64 • As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0 • As a hostname |
| direction | string | <p>Direction in which the name mapping is applied. The possible values are:</p> <ul style="list-style-type: none"> • krb_unix - Kerberos principal name to UNIX user name • win_unix - Windows user name to UNIX user name • unix_win - UNIX user name to Windows user name mapping |
| 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 | svm | |

Manage NIS server configurations

Name-services NIS endpoint overview

Overview

NIS servers are used to authenticate user and client computers. NIS domain name and NIS server information is required to configure NIS. It is important to note that this API is used to retrieve and manage NIS server configurations for data SVMs only. NIS configuration for the cluster is managed via </api/security/authentication/cluster/nis> .

Retrieving NIS Information

The NIS GET endpoint retrieves all of the NIS configurations for data SVMs.

Examples

Retrieving all fields for all NIS configurations

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

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

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
          }
        }
      }
    }
  ]
}
```

```

    }
  },
  "domain": "domainA.example.com",
  "servers": [
    "10.10.10.10",
    "example.com"
  ],
  "bound-servers": [
    "10.10.10.10"
  ],
  "_links": {
    "self": {
      "href": "/api/name-services/nis/179d3c85-7053-11e8-b9b8-005056b41bd1"
    }
  }
},
{
  "svm": {
    "uuid": "6a52023b-7066-11e8-b9b8-005056b41bd1",
    "name": "vs2",
    "_links": {
      "self": {
        "href": "/api/svm/svms/6a52023b-7066-11e8-b9b8-005056b41bd1"
      }
    }
  },
  "domain": "domainB.example.com",
  "servers": [
    "2.2.2.2",
    "3.3.3.3",
    "4.4.4.4"
  ],
  "bound-servers": [],
  "_links": {
    "self": {
      "href": "/api/name-services/nis/6a52023b-7066-11e8-b9b8-005056b41bd1"
    }
  }
}
],
"num_records": 2,
"_links": {
  "self": {
    "href": "/api/name-services/nis?fields=*"
  }
}

```

```
}  
}  
}
```

Retrieving all NIS configurations whose bound servers start with 10

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

# The call:
curl -X GET "https://<mgmt-ip/api/name-services/nis?bound_servers=10*" -H
"accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/179d3c85-7053-11e8-b9b8-005056b41bd1"
          }
        }
      },
      "bound-servers": [
        "10.10.10.10"
      ],
      "_links": {
        "self": {
          "href": "/api/name-services/nis/6a52023b-7066-11e8-b9b8-005056b41bd1"
        }
      }
    },
    {
      "num_records": 1,
      "_links": {
        "self": {
          "href": "/api/name-services/nis?bound_servers=10*"
        }
      }
    }
  ]
}
```

Retrieving the NIS configuration of a specific SVM

```

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

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

# The response:
{
  "svm": {
    "uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1",
    "name": "vs1"
  },
  "domain": "domainA.example.com",
  "servers": [
    "10.10.10.10",
    "example.com"
  ],
  "bound_servers": [
    "10.10.10.10"
  ]
}

```

Creating a NIS configuration

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

Example

The following example shows a POST operation:

```

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

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

```

Updating the NIS configuration

The NIS PATCH endpoint updates the NIS configuration for the specified NIS server.

Examples

Updating the domain

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/nis/179d3c85-7053-11e8-
b9b8-005056b41bd1" -H "accept: application/json" -H "Content-Type:
application/json" -d "{ \"domain\": \"domainC.example.com\", \"servers\":
[ \"13.13.13.13\" ]}"
```

Updating the server

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/nis/179d3c85-7053-11e8-
b9b8-005056b41bd1" -H "accept: application/json" -H "Content-Type:
application/json" -d "{ \"servers\": [ \"14.14.14.14\" ]}"
```

Deleting a NIS configuration

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

Example

The following example shows a DELETE operation:

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

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

Retrieve NIS domain configurations of all SVMs

GET /name-services/nis

Introduced In: 9.6

Retrieves NIS domain configurations of all the SVMs. The `bound_servers` field indicates the successfully bound NIS servers. Lookups and authentications fail if there are no bound servers.

Related ONTAP commands

- `vserver services name-service nis-domain show`
- `vserver services name-service nis-domain show-bound`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| svm.uuid | string | query | False | Filter by svm.uuid <ul style="list-style-type: none">• Introduced in: 9.7 |
| svm.name | string | query | False | Filter by svm.name <ul style="list-style-type: none">• Introduced in: 9.7 |
| servers | string | query | False | Filter by servers <ul style="list-style-type: none">• Introduced in: 9.7 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|---|
| domain | string | query | False | Filter by domain <ul style="list-style-type: none"> • Introduced in: 9.7 |
| bound_servers | string | query | False | Filter by bound_servers <ul style="list-style-type: none"> • Introduced in: 9.7 |
| 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. <ul style="list-style-type: none"> • Default value: 1 |
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|--------------------------|---------------------|-------------------------------|
| <code>_links</code> | <code>_links</code> | |
| <code>num_records</code> | integer | Number of NIS domain records. |
| <code>records</code> | array[nis_service] | |

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 | error | |

Example error

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

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

nis_service

| Name | Type | Description |
|---------------|------------------------|--|
| _links | _links | |
| bound_servers | array[string] | |
| domain | string | The NIS domain to which this configuration belongs. |
| servers | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |
| svm | svm | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Create the NIS domain and server configuration for a data SVM

POST `/name-services/nis`

Introduced In: 9.6

Creates an NIS domain and server configuration for a data SVM. NIS configuration for the cluster is managed via [/api/security/authentication/cluster/nis](#) .

Important notes

- Each SVM can have one NIS domain configuration.
- Multiple SVMs can be configured with the same NIS domain. Specify the NIS domain and NIS servers as `input.Domain` name and `servers` fields cannot be empty.
- Both FQDNs and IP addresses are supported for the `servers` field.
- IPv6 must be enabled if IPv6 family addresses are specified in the `servers` field.
- A maximum of ten NIS servers are supported.

Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the NIS configuration.
- `domain` - NIS domain to which the configuration belongs.
- `servers` - List of NIS server IP addresses.

Related ONTAP commands

- `vserver services name-service nis-domain create`

Learn more

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

Parameters

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

Request Body

| Name | Type | Description |
|---------------|------------------------|--|
| _links | _links | |
| bound_servers | array[string] | |
| domain | string | The NIS domain to which this configuration belongs. |
| servers | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |
| svm | svm | |

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 | _links | |
| num_records | integer | Number of NIS domain records. |
| records | array[nis_service] | |

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 | href | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

nis_service

| Name | Type | Description |
|---------------|------------------------|--|
| _links | _links | |
| bound_servers | array[string] | |
| domain | string | The NIS domain to which this configuration belongs. |
| servers | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |
| svm | svm | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Delete the NIS domain configuration for an SVM

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

Introduced In: 9.6

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

Related ONTAP commands

- `vserver services name-service nis-domain delete`

Learn more

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

Parameters

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

Response

```
Status: 200, Ok
```

Error

Status: Default, Error

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

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

Definitions

See Definitions

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Retrieve NIS domain and server configurations for an SVM

```
GET /name-services/nis/{svm.uuid}
```

Introduced In: 9.6

Retrieves NIS domain and server configurations of an SVM. Both NIS domain and servers are displayed by default. The `bound_servers` field indicates the successfully bound NIS servers.

Related ONTAP commands

- `vserver services name-service nis-domain show`
- `vserver services name-service nis-domain show-bound`

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 | _links | |
| bound_servers | array[string] | |
| domain | string | The NIS domain to which this configuration belongs. |
| servers | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |
| svm | svm | |

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 | href | |

svm

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

Update the NIS domain and server configuration for an SVM

```
PATCH /name-services/nis/{svm.uuid}
```


Introduced In: 9.6

Updates NIS domain and server configuration of an SVM.

Important notes

- Both NIS domain and servers can be modified.
- Domains and servers cannot be empty.
- Both FQDNs and IP addresses are supported for the servers field.
- If the domain is modified, NIS servers must also be specified.
- IPv6 must be enabled if IPv6 family addresses are specified for the servers field.

Related ONTAP commands

- `vserver services name-service nis-domain modify`

Learn more

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

Parameters

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

Request Body

| Name | Type | Description |
|---------------|------------------------|--|
| _links | _links | |
| bound_servers | array[string] | |
| domain | string | The NIS domain to which this configuration belongs. |
| servers | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |
| svm | svm | |

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 | error | |

Example error

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

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

nis_service

| Name | Type | Description |
|---------------|------------------------|--|
| _links | _links | |
| bound_servers | array[string] | |
| domain | string | The NIS domain to which this configuration belongs. |
| servers | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |
| svm | svm | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Manage UNIX group configurations

Name-services unix-groups endpoint overview

Overview

You can use this API to display local UNIX group information and to control UNIX group configurations.

Retrieving UNIX group information

The UNIX group GET endpoint retrieves all of the local UNIX groups configurations for data SVMs.

Examples

Retrieving all of the fields for all of the UNIX group configurations

The UNIX group GET endpoint retrieves all of the local UNIX groups configurations for data SVMs.

```
# The API:
/api/name-services/unix-groups

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

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "b009a9e7-4081-b576-7575-ada21efcaf16",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/b009a9e7-4081-b576-7575-ada21efcaf16"
          }
        }
      }
    }
  ]
}
```

```

    }
  },
  "name": "group1",
  "id": 11,
  "users": [
    {
      "name": "user1"
    },
    {
      "name": "user2"
    },
    {
      "name": "user3"
    }
  ],
  "_links": {
    "self": {
      "href": "/api/name-services/unix-groups/b009a9e7-4081-b576-7575-ada21efcaf16/group1"
    }
  }
},
{
  "svm": {
    "uuid": "b009a9e7-4081-b576-7575-ada21efcaf16",
    "name": "vs1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/b009a9e7-4081-b576-7575-ada21efcaf16"
      }
    }
  },
  "name": "group2",
  "id": 12,
  "users": [
    {
      "name": "user1"
    },
    {
      "name": "user2"
    }
  ],
  "_links": {
    "self": {
      "href": "/api/name-services/unix-groups/b009a9e7-4081-b576-7575-

```

```

ada21efcaf16/group2"
  }
}
},
{
  "svm": {
    "uuid": "b009a9e7-4081-b576-7575-ada21efcad17",
    "name": "vs2",
    "_links": {
      "self": {
        "href": "/api/svm/svms/b009a9e7-4081-b576-7575-ada21efcad17"
      }
    }
  },
  "name": "group1",
  "id": 11,
  "users": [
    {
      "name": "user2"
    },
    {
      "name": "user3"
    }
  ],
  "_links": {
    "self": {
      "href": "/api/name-services/unix-groups/b009a9e7-4081-b576-7575-ada21efcad17/group1"
    }
  }
},
"num_records": 3,
"_links": {
  "self": {
    "href": "/api/name-services/unix-groups?fields=*"
  }
}
}
}

```

Retrieving all of the UNIX group configurations whose group name is 'group1'.

```

# The API:
/api/name-services/unix-groups

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-groups?name=group1"
-H "accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "b009a9e7-4081-b576-7575-ada21efcaf16",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/b009a9e7-4081-b576-7575-ada21efcaf16"
          }
        }
      },
      "name": "group1",
      "id": 11,
      "_links": {
        "self": {
          "href": "/api/name-services/unix-groups/b009a9e7-4081-b576-7575-ada21efcaf16/group1"
        }
      }
    },
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/name-services/unix-groups?name=group1"
    }
  }
}

```

Creating a UNIX group configuration

The UNIX group POST endpoint creates a UNIX group configuration for the specified SVM.

Example


```
# The API:
/api/name-services/unix-groups

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-groups" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d '{"svm":
{"uuid": "179d3c85-7053-11e8-b9b8-005056b41bd1"}, "name": "group1", "id":
111}'
```

Updating a UNIX group configuration

The UNIX group PATCH endpoint updates the UNIX group ID of the specified UNIX group and the specified SVM.

Example

Modify the group ID of group1 to 112

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/unix-groups/179d3c85-
7053-11e8-b9b8-005056b41bd1/group1" -H "accept: application/hal+json" -H
"Content-Type: application/json" -d '{"id": 112}'
```

Deleting a UNIX group configuration

The UNIX group DELETE endpoint deletes the specified UNIX group of the specified SVM.

Example

Delete the group 'group1'

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

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/unix-groups/179d3c85-
7053-11e8-b9b8-005056b41bd1/group1" -H "accept: application/hal+json"
```

Retrieve UNIX groups for all SVMs

GET /name-services/unix-groups

Introduced In: 9.9

Retrieves the UNIX groups for all of the SVMs. UNIX users who are the members of the group are also displayed.

Related ONTAP commands

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

Learn more

- [DOC /name-services/unix-groups](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| users.name | string | query | False | Filter by users.name |
| name | string | query | False | Filter by name |
| id | integer | query | False | Filter by id |
| 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. <ul style="list-style-type: none">• Default value: 1 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| return_timeout | integer | query | False | <p>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.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|-------------------------------------|-------------------------------|
| _links | _links | |
| num_records | integer | Number of UNIX group records. |
| records | array[unix_group] | |

Example response

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

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 | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

users

| Name | Type | Description |
|------|--------|--|
| name | string | UNIX user who belongs to the specified UNIX group and the SVM. |

unix_group

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| id | integer | UNIX group ID of the specified user. |
| name | string | UNIX group name to be added to the local database. |

| Name | Type | Description |
|----------------------|--------------------------------|--|
| skip_name_validation | boolean | Indicates whether or not the validation for the specified UNIX group name is disabled. |
| svm | svm | |
| users | array[users] | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Create a local UNIX group configuration for an SVM

POST /name-services/unix-groups

Introduced In: 9.9

Creates the local UNIX group configuration for the specified SVM.

Group name and group ID are mandatory parameters.

Learn more

- [DOC /name-services/unix-groups](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|---|
| return_records | boolean | query | False | <p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> • Default value: |

Request Body

| Name | Type | Description |
|----------------------|--------------------------------|--|
| _links | _links | |
| id | integer | UNIX group ID of the specified user. |
| name | string | UNIX group name to be added to the local database. |
| skip_name_validation | boolean | Indicates whether or not the validation for the specified UNIX group name is disabled. |
| svm | svm | |
| users | array[users] | |

Example request

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

Response

Status: 201, Created

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|---|
| 2621706 | The specified SVM UUID is incorrect for the specified SVM name. |
| 3277025 | Maximum supported limit of UNIX group count reached. |
| 3277051 | Invalid characters in group name. Valid characters are 0-9, A-Z, a-z, ".", "_", and "-". Names cannot start with "-". |
| 23724067 | Group name too long. Maximum supported length is 64 characters. |

| Error Code | Description |
|------------|--|
| 23724141 | Duplicate group ID. Group ID must be unique. |

| 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 | href | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

users

| Name | Type | Description |
|------|--------|--|
| name | string | UNIX user who belongs to the specified UNIX group and the SVM. |

unix_group

| Name | Type | Description |
|----------------------|--------------------------------|--|
| _links | _links | |
| id | integer | UNIX group ID of the specified user. |
| name | string | UNIX group name to be added to the local database. |
| skip_name_validation | boolean | Indicates whether or not the validation for the specified UNIX group name is disabled. |
| svm | svm | |
| users | array[users] | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Delete a UNIX group configuration for an SVM

```
DELETE /name-services/unix-groups/{svm.uuid}/{name}
```

Introduced In: 9.9

Deletes a UNIX group configuration for the specified SVM.

Related ONTAP commands

- `vserver services name-service unix-group delete`

Learn more

- [DOC /name-services/unix-groups](#)

Parameters

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

Response

Status: 200, Ok

Error

Status: Default, Error

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

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

Definitions

See Definitions

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Retrieve UNIX group information for a group and SVM

GET /name-services/unix-groups/{svm.uuid}/{name}

Introduced In: 9.9

Retrieves UNIX group information for the specified group and SVM. UNIX users who are part of this group are also retrieved.

Related ONTAP commands

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

Learn more

- [DOC /name-services/unix-groups](#)

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|------------------|
| name | string | path | True | UNIX group name. |

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

Response

Status: 200, Ok

| Name | Type | Description |
|----------------------|--------------------------------|--|
| _links | _links | |
| id | integer | UNIX group ID of the specified user. |
| name | string | UNIX group name to be added to the local database. |
| skip_name_validation | boolean | Indicates whether or not the validation for the specified UNIX group name is disabled. |
| svm | svm | |
| users | array[users] | |

Example response

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

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 | href | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

users

| Name | Type | Description |
|------|--------|--|
| name | string | UNIX user who belongs to the specified UNIX group and the SVM. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

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

Update UNIX group information for a group in an SVM

PATCH /name-services/unix-groups/{svm.uuid}/{name}

Introduced In: 9.9

Updates the UNIX group information of the specified group in the specified SVM.

Learn more

- [DOC /name-services/unix-groups](#)

Parameters

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

Request Body

| Name | Type | Description |
|----------------------|--------------------------------|--|
| _links | _links | |
| id | integer | UNIX group ID of the specified user. |
| name | string | UNIX group name to be added to the local database. |
| skip_name_validation | boolean | Indicates whether or not the validation for the specified UNIX group name is disabled. |
| svm | svm | |
| users | array[users] | |

Example request

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

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 23724141 | Duplicate group ID. Group ID must be unique. |

| 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 | href | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

users

| Name | Type | Description |
|------|--------|--|
| name | string | UNIX user who belongs to the specified UNIX group and the SVM. |

unix_group

| Name | Type | Description |
|----------------------|--------------------------------|--|
| _links | _links | |
| id | integer | UNIX group ID of the specified user. |
| name | string | UNIX group name to be added to the local database. |
| skip_name_validation | boolean | Indicates whether or not the validation for the specified UNIX group name is disabled. |
| svm | svm | |
| users | array[users] | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

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

Manage UNIX group users

Name-services unix-groups svm.uuid unix_group.name users endpoint overview

Overview

You can use this API to add or delete UNIX users to a UNIX group of an SVM.

Adding users to a UNIX group

The UNIX group users POST endpoint adds UNIX users to the specified UNIX group and the SVM. Multiple users can be added in a single call using the "records" parameter.

Examples

Adding a single user to the group 'group1'

```
# The API:
/api/name-services/unix-groups/{svm.uuid}/{unix_group.name}/users

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-groups/179d3c85-7053-11e8-b9b8-005056b41bd1/group1/users" -H "accept: application/hal+json" -H "Content-Type: application/json" -d '{ "name": "user4" }'
```

Adding multiple users to the group 'group1' in a single REST call

```
# The API:
/api/name-services/unix-groups/{svm.uuid}/{unix_group.name}/users

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-groups/179d3c85-7053-11e8-b9b8-005056b41bd1/group1/users" -H "accept: application/hal+json" -H "Content-Type: application/json" -d '{"records": [{"name":"user1"}, {"name":"user2"}, {"name":"user3"}]}'
```

Deleting a user from a group of a specific SVM

Example

Delete the user 'user1' from group 'group1' in SVM 'vs1'

```
= The API:

/api/name-services/unix-groups/{svm.uuid}/{unix_group.name}/users/{name}

= The call:

[[IDded7da5dac831311ac7551f3c5aaa240]]
= Add users to a UNIX group and SVM

[.api-doc-operation .api-doc-operation-post]#POST# [.api-doc-code-block]#`/name-services/unix-groups/{svm.uuid}/{unix_group.name}/users`#

*Introduced In:* 9.9

Adds users to the specified UNIX group and SVM.

== Important notes

* Multiple users can be added in a single call using the "records" parameter.
* "records" parameter must not be specified when "name" parameter is specified.
* Specified users are appended to the existing list of users.
* Duplicate users are ignored.
```


== Related ONTAP commands

```
* `vserver services name-service unix-group adduser`  
* `vserver services name-service unix-group addusers`
```

== Parameters

[cols=5*,options=header]

|===

|Name

|Type

|In

|Required

|Description

|unix_group.name

|string

|path

|True

a|UNIX group name.

|return_records

|boolean

|query

|False

a|The default is false. If set to true, the records are returned.

* Default value:

|svm.uuid

|string

|path

|True

a|UUID of the SVM to which this object belongs.

|===

== Request Body

[cols=3*,options=header]

|===

```

|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|name
|string
a|UNIX user who belongs to the specified UNIX group and the SVM.

|records
|array[link:#records[records]]
a|An array of UNIX users specified to add multiple users to a UNIX group
in a single API call.
Not allowed when the `name` property is used.

|skip_name_validation
|boolean
a|Indicates whether or not the validation for the specified UNIX user
names is disabled.

|===

.Example request
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
  }
}
====

== Response

```

Status: 200, Ok

```
== Error
```

Status: Default

ONTAP Error Response Codes

```
|===  
| Error Code | Description  
  
| 262179  
| Invalid arguments in records.  
  
| 3276897  
| The specified UNIX group does not exist in the SVM.  
  
| 3277025  
| Maximum supported limit of UNIX group membership count reached.  
  
| 3277051  
| Invalid characters in user name. Valid characters are 0-9, A-Z, a-z,  
".", "_" and "-". Names cannot start with "-".  
  
| 23724066  
| User name too long. Maximum supported length is 64 characters.  
  
| 23724142  
| "records" field must not be specified when a single user is added.  
  
| 23724143  
| SVM UUID, UNIX group name and skip-name-validation are invalid fields  
for "records" parameter.  
|===
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|error
```

```
|link:#error[error]
```

```

a|

|===

.Example error
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
|===
|Name
|Type
|Description

|href
|string
a|

|===

[#_links]

```

```

[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

|===

[#records]
[.api-collapsible-fifth-title]
records

[cols=3*,options=header]
|===
|Name
|Type
|Description

|name
|string
a|UNIX user who belongs to the specified UNIX group and the SVM.

|===

[#unix_group_users]
[.api-collapsible-fifth-title]
unix_group_users

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

```

```

|name
|string
a|UNIX user who belongs to the specified UNIX group and the SVM.

|records
|array[link:#records[records]]
a|An array of UNIX users specified to add multiple users to a UNIX group
in a single API call.
Not allowed when the `name` property is used.

|skip_name_validation
|boolean
a|Indicates whether or not the validation for the specified UNIX user
names is disabled.

|===

[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments

[cols=3*,options=header]
|===
|Name
|Type
|Description

|code
|string
a|Argument code

|message
|string
a|Message argument

|===

[#error]
[.api-collapsible-fifth-title]

```

```

error

[cols=3*,options=header]
|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string
a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
====

[[ID86ebec0104baba8b67c4ec61c101b568]]
= Delete a user from a UNIX group

[.api-doc-operation .api-doc-operation-delete]#DELETE# [.api-doc-code-
block]#`/name-services/unix-
groups/{svm.uuid}/{unix_group.name}/users/{name}`#

*Introduced In:* 9.9

Deletes a user from the specified UNIX group.

```

```
== Related ONTAP commands
```

```
* `vserver services name-service unix-group deluser`
```

```
== Parameters
```

```
[cols=5*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|In
```

```
|Required
```

```
|Description
```

```
|unix_group.name
```

```
|string
```

```
|path
```

```
|True
```

```
a|UNIX group name.
```

```
|name
```

```
|string
```

```
|path
```

```
|True
```

```
a|UNIX user to be deleted from the group.
```

```
|svm.uuid
```

```
|string
```

```
|path
```

```
|True
```

```
a|UUID of the SVM to which this object belongs.
```

```
|===
```

```
== Response
```

Status: 200, Ok

```
== Error
```

Status: Default

ONTAP Error Response Codes

|===

| Error Code | Description

| 3276897

| The specified UNIX group does not exist in the SVM.

|===

[cols=3*,options=header]

|===

|Name

|Type

|Description

|error

|link:#error[error]

a|

|===

.Example error

[%collapsible%closed]

====

[source,json,subs=+macros]

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

====

== Definitions

[.api-def-first-level]

.See Definitions

[%collapsible%closed]

```

//Start collapsible Definitions block
====
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments

[cols=3*,options=header]
|===
|Name
|Type
|Description

|code
|string
a|Argument code

|message
|string
a|Message argument

|===

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string

```

```

a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
=====

:leveloffset: -1

= Manage UNIX user configurations

:leveloffset: +1

[[ID762ab9db86e3c99a06c5a92343c34b4e]]
= Name-services unix-users endpoint overview

== Overview

You can use this API to display local UNIX user information and to control
UNIX user configurations.

== Retrieving UNIX user information

You can use the UNIX user GET endpoint to retrieve all of the local UNIX
user configurations for data SVMs.

== Examples

=== Retrieving all of the fields for UNIX user configurations for all SVMs

'''
-----

```

```

# The API:
/api/name-services/unix-users

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

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
        "name": "vs1"
      },
      "name": "string",
      "id": 7,
      "primary_gid": 0,
      "full_name": "string"
    },
    {
      "svm": {
        "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
        "name": "vs2"
      },
      "name": "nobody",
      "id": 65535,
      "primary_gid": 65535,
      "full_name": ""
    },
    {
      "svm": {
        "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
        "name": "vs2"
      },
      "name": "pcuser",
      "id": 65534,
      "primary_gid": 65534,
      "full_name": ""
    },
    {
      "svm": {
        "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
        "name": "vs2"
      },
      "name": "root",

```

```

    "id": 0,
    "primary_gid": 1,
    "full_name": ""
  }
],
"num_records": 4
}
-----

'''

=== Retrieving the UNIX user configuration of a specific SVM

'''

-----

# The API:
/api/name-services/unix-users

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-
users?svm.uuid=25b363a6-2971-11eb-88e1-0050568eefd4&fields=*" -H "accept:
application/json"

# The response:
{
"records": [
  {
    "svm": {
      "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
      "name": "vs1"
    },
    "name": "user1",
    "id": 1,
    "primary_gid": 1,
    "full_name": "Full User Name for user1"
  }
],
"num_records": 1
}
-----

'''

=== Retrieving a UNIX user configuration of a specific SVM and user

```

```

'''
-----

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

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-users/25b363a6-2971-11eb-88e1-0050568eefd4/user1" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
    "name": "vs1"
  },
  "name": "user1",
  "id": 1,
  "primary_gid": 1,
  "full_name": "Full User Name for user1"
}
-----

```

```
'''
```

== Creating a UNIX user configuration

The UNIX user POST endpoint creates a UNIX user configuration for the specified SVM.

== Examples

=== Creating a UNIX user configuration with all fields specified

```
'''
```

```
-----
```

```
# The API:
/api/name-services/unix-users
```

```
# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-users" -H "accept: application/json" -d "{ \"full_name\": \"Full user name\", \"id\": 7, \"name\": \"user2\", \"primary_gid\": 10, \"skip_name_validation\": false, \"svm\": { \"name\": \"vs1\", \"uuid\": \"25b363a6-2971-11eb-88e1-
```

```
0050568eefd4\" } }"
```

```
----
```

```
'''
```

=== Creating a UNIX user configuration with only mandatory fields specified

```
'''
```

```
----
```

```
# The API:
```

```
/api/name-services/unix-users
```

```
# The call:
```

```
curl -X POST "https://<mgmt-ip>/api/name-services/unix-users" -H "accept: application/json" -d "{ \"id\": 8, \"name\": \"user9\", \"primary_gid\": 10, \"svm\": { \"name\": \"vs1\", \"uuid\": \"25b363a6-2971-11eb-88e1-0050568eefd4\" } }"
```

```
----
```

```
'''
```

=== Updating a UNIX user configuration

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

```
----
```

```
# The API:
```

```
/api/name-services/unix-users/{svm.uuid}/{name}
```

```
# The call:
```

```
curl -X PATCH "https://<mgmt-ip>/api/name-services/unix-users/25b363a6-2971-11eb-88e1-0050568eefd4/user1" -H "accept: application/json" -d "{ \"full_name\": \"Full name\", \"id\": 7, \"primary_gid\": 10 }"
```

```
----
```

```
'''
```

=== Deleting a UNIX user configuration

The UNIX user DELETE endpoint deletes the specified UNIX user for the specified SVM. The following example shows a DELETE operation:

```
-----  
  
# The API:  
/api/name-services/unix-users/{svm.uuid}/{name}  
  
# The call:  
curl -X DELETE "https://<mgmt-ip>/api/name-services/unix-users/25b363a6-  
2971-11eb-88e1-0050568eefd4/user1" -H "accept: application/json"  
  
-----
```

```
'''
```

```
[[IDad3bb10ece96255a45f5ea3201baed6c]]  
= Retrieve all UNIX users for all SVMs
```

```
[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-  
block]#`/name-services/unix-users`#
```

```
*Introduced In:* 9.9
```

```
Retrieves all of the UNIX users for all of the SVMs.
```

```
== Related ONTAP commands
```

```
* `vserver services name-service unix-user show`
```

```
== Parameters
```

```
[cols=5*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|In
```

```
|Required
```

```
|Description
```

```
|primary_gid
```

```
|integer
```

```
|query
```

```
|False
```

```
a|Filter by primary_gid
```



```
|full_name  
|string  
|query  
|False  
a|Filter by full_name
```

```
|id  
|integer  
|query  
|False  
a|Filter by id
```

```
|svm.uuid  
|string  
|query  
|False  
a|Filter by svm.uuid
```

```
|svm.name  
|string  
|query  
|False  
a|Filter by svm.name
```

```
|name  
|string  
|query  
|False  
a|Filter by name
```

```
|fields  
|array[string]  
|query  
|False  
a|Specify the fields to return.
```

```
|max_records  
|integer  
|query
```

```
|False
a|Limit the number of records returned.

|return_records
|boolean
|query
|False
a|The default is true for GET calls. When set to false, only the number
of records is returned.

* Default value: 1

|return_timeout
|integer
|query
|False
a|The number of seconds to allow the call to execute before returning.
When iterating over a collection, the default is 15 seconds. ONTAP
returns earlier if either max records or the end of the collection is
reached.

* Default value: 1
* Max value: 120
* Min value: 0

|order_by
|array[string]
|query
|False
a|Order results by specified fields and optional [asc|desc] direction.
Default direction is 'asc' for ascending.

|===

== Response
```

Status: 200, Ok

```
[cols=3*,options=header]
|===
|Name
|Type
|Description
```

```
|_links
|link:#_links[_links]
a|

|num_records
|integer
a|Number of UNIX user records.

|records
|array[link:#unix_user[unix_user]]
a|

|===
```

.Example response

[%collapsible%closed]

====

[source,json,subs=+macros]

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

```
}  
====  
  
== Error
```

Status: Default, Error

```
[cols=3*,options=header]  
|===  
|Name  
|Type  
|Description  
  
|error  
|link:#error[error]  
a|  
  
|===  
  
.Example error  
[%collapsible%closed]  
====  
[source,json,subs=+macros]  
{  
  "error": {  
    "arguments": {  
      "code": "string",  
      "message": "string"  
    },  
    "code": "4",  
    "message": "entry doesn't exist",  
    "target": "uuid"  
  }  
}  
====  
  
== Definitions  
  
[.api-def-first-level]  
.See Definitions  
[%collapsible%closed]  
//Start collapsible Definitions block  
====  
[#href]  
[.api-collapsible-fifth-title]
```

```

href

[cols=3*,options=header]
|===
|Name
|Type
|Description

|href
|string
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|next
|link:href[href]
a|

|self
|link:href[href]
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self

```

```

|link:#href[href]
a|

|===

[#svm]
[.api-collapsible-fifth-title]
svm

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|name
|string
a|The name of the SVM.

|uuid
|string
a|The unique identifier of the SVM.

|===

[#unix_user]
[.api-collapsible-fifth-title]
unix_user

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

```

```

|full_name
|string
a|User's full name.

|id
|integer
a|UNIX user ID of the specified user.

|name
|string
a|UNIX user name to be added to the local database.

|primary_gid
|integer
a|Primary group ID to which the user belongs.

|skip_name_validation
|boolean
a|Indicates whether or not the validation for the specified UNIX user name
is disabled.

|svm
|link:#svm[svm]
a|

|===

[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments

[cols=3*,options=header]
|===
|Name
|Type
|Description

|code
|string
a|Argument code

```

```

|message
|string
a|Message argument

|===

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string
a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
=====

```



```
[[ID1a458b5d7b2621486c959b70db8acc03]]
```

```
= Create a local UNIX user configuration for an SVM
```

```
[.api-doc-operation .api-doc-operation-post]#POST# [.api-doc-code-block]#`/name-services/unix-users`#
```

```
*Introduced In:* 9.9
```

```
Creates the local UNIX user configuration for an SVM.
```

```
== Parameters
```

```
[cols=5*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|In
```

```
|Required
```

```
|Description
```

```
|return_records
```

```
|boolean
```

```
|query
```

```
|False
```

```
a|The default is false. If set to true, the records are returned.
```

```
* Default value:
```

```
|===
```

```
== Request Body
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|_links
```

```
|link:#_links[_links]
```

```
a|
```

```
|full_name
```

```

|string
a|User's full name.

|id
|integer
a|UNIX user ID of the specified user.

|name
|string
a|UNIX user name to be added to the local database.

|primary_gid
|integer
a|Primary group ID to which the user belongs.

|skip_name_validation
|boolean
a|Indicates whether or not the validation for the specified UNIX user name
is disabled.

|svm
|link:#svm[svm]
a|

|===

.Example request
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}

```

```

    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
====

== Response

```

Status: 201, Created

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|num_records
|integer
a|Number of UNIX user records.

|records
|array[link:#unix_user[unix_user]]
a|

|===

.Example response
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  }
},

```

```

"records": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "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

| 23724066
| The specified UNIX user name is too long. Maximum supported length is 64
characters.

| 3277051
| The specified UNIX user name contains invalid characters. Valid
characters are 0-9, A-Z, a-z, ".", "_" and "-".

| 23724128
| The specified UNIX user full-name contains the invalid character ':'.

| 23724089
| The specified UNIX user full-name is too long. Maximum supported length
is 256 characters.

```

```
| 23724055
| Internal error. Failed to create the UNIX user for the SVM. Verify that
the cluster is healthy, then try the command again.

| 23724090
| Configuring individual entries is not supported because file-only
configuration is enabled.

| 3277025
| Failed to create the UNIX user for the SVM because the system limit has
been reached.
|===
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|error
```

```
|link:#error[error]
```

```
a|
```

```
|===
```

```
.Example error
```

```
[%collapsible%closed]
```

```
====
```

```
[source,json,subs=+macros]
```

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

```
====
```

```
== Definitions
```

```

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
|===
|Name
|Type
|Description

|href
|string
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

|===

[#svm]
[.api-collapsible-fifth-title]
svm

[cols=3*,options=header]
|===
|Name
|Type

```

```

|Description

|_links
|link:#_links[_links]
a|

|name
|string
a|The name of the SVM.

|uuid
|string
a|The unique identifier of the SVM.

|===

[#unix_user]
[.api-collapsible-fifth-title]
unix_user

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|full_name
|string
a|User's full name.

|id
|integer
a|UNIX user ID of the specified user.

|name
|string
a|UNIX user name to be added to the local database.

```

```
|primary_gid
|integer
a|Primary group ID to which the user belongs.
```

```
|skip_name_validation
|boolean
a|Indicates whether or not the validation for the specified UNIX user name
is disabled.
```

```
|svm
|link:#svm[svm]
a|
```

```
|===
```

```
[#_links]
[.api-collapsible-fifth-title]
_links
```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description
```

```
|next
|link:#href[href]
a|
```

```
|self
|link:#href[href]
a|
```

```
|===
```

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments
```

```
[cols=3*,options=header]
|===
|Name
```



```
|Type
|Description

|code
|string
a|Argument code

|message
|string
a|Message argument
```

```
|===
```

```
[#error]
[.api-collapsible-fifth-title]
error
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments
```

```
|code
|string
a|Error code
```

```
|message
|string
a|Error message
```

```
|target
|string
a|The target parameter that caused the error.
```

```
|===
```

```

//end collapsible .Definitions block
====

[[IDf408d3c7543020b8d78823784442873b]]
= Delete a UNIX user configuration for an SVM

[.api-doc-operation .api-doc-operation-delete]#DELETE# [.api-doc-code-
block]#`/name-services/unix-users/{svm.uuid}/{name}`#

*Introduced In:* 9.9

Deletes a UNIX user configuration for the specified SVM.

== Related ONTAP commands

* `vserver services name-service unix-user delete`

== Parameters

[cols=5*,options=header]
|===
|Name
|Type
|In
|Required
|Description

|name
|string
|path
|True
a|UNIX user name

|svm.uuid
|string
|path
|True
a|UUID of the SVM to which this object belongs.

|===

```

```
== Response
```

Status: 200, Ok

```
== Error
```

Status: Default, Error

```
[cols=3*,options=header]
|===
|Name
|Type
|Description

|error
|link:#error[error]
a|

|===

.Example error
[%collapsible%closed]
=====
[source,json,subs=+macros]
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
=====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
```

```

====
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments

[cols=3*,options=header]
|===
|Name
|Type
|Description

|code
|string
a|Argument code

|message
|string
a|Message argument

|===

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string
a|Error message

```

```

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
=====

[[ID0fbc768e3f2caa4060b9d540a9181e26]]
= Retrieve UNIX user information for a user and SVM

[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-
block]#`/name-services/unix-users/{svm.uuid}/{name}`#

*Introduced In:* 9.9

Retrieves UNIX user information for the specified user and SVM.

== Related ONTAP commands

* `vservers services name-service unix-user show`

== Parameters

[cols=5*,options=header]
|===

|Name
|Type
|In
|Required
|Description

|name
|string
|path
|True
a|UNIX user name

```

```
|svm.uuid
|string
|path
|True
a|UUID of the SVM to which this object belongs.
```

```
|fields
|array[string]
|query
|False
a|Specify the fields to return.
```

```
|===
```

```
== Response
```

Status: 200, Ok

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
 |_links
|link:#_links[_links]
a|
```

```
|full_name
|string
a|User's full name.
```

```
|id
|integer
a|UNIX user ID of the specified user.
```

```
|name
|string
a|UNIX user name to be added to the local database.
```

```
|primary_gid
```

```
|integer
a|Primary group ID to which the user belongs.
```

```
|skip_name_validation
|boolean
a|Indicates whether or not the validation for the specified UNIX user name
is disabled.
```

```
|svm
|link:#svm[svm]
a|
```

```
|===
```

.Example response

```
[%collapsible%closed]
```

```
====
```

```
[source,json,subs=+macros]
```

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

```
====
```

```
== Error
```

Status: Default, Error

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```

|Type
|Description

|error
|link:#error[error]
a|

|===

.Example error
[%collapsible%closed]
=====
[source,json,subs=+macros]
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
=====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
=====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
|===
|Name
|Type
|Description

|href
|string

```



```

a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

|===

[#svm]
[.api-collapsible-fifth-title]
svm

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|name
|string
a|The name of the SVM.

|uuid
|string
a|The unique identifier of the SVM.

|===

```

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|code
```

```
|string
```

```
a|Argument code
```

```
|message
```

```
|string
```

```
a|Message argument
```

```
|===
```

```
[#error]
```

```
[.api-collapsible-fifth-title]
```

```
error
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|arguments
```

```
|array[link:#error_arguments[error_arguments]]
```

```
a|Message arguments
```

```
|code
```

```
|string
```

```
a|Error code
```

```
|message
```

```
|string
```

```

a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
=====

[[ID191ece27f34553c06d71a604ec855084]]
= Update UNIX user information for a user and SVM

[.api-doc-operation .api-doc-operation-patch]#PATCH# [.api-doc-code-
block]#`/name-services/unix-users/{svm.uuid}/{name}`#

*Introduced In:* 9.9

Updates UNIX user information for the specified user and SVM.

== Parameters

[cols=5*,options=header]
|===

|Name
|Type
|In
|Required
|Description

|name
|string
|path
|True
a|UNIX user name

|svm.uuid
|string

```

```

|path
|True
a|UUID of the SVM to which this object belongs.

|===

== Request Body

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|full_name
|string
a|User's full name.

|id
|integer
a|UNIX user ID of the specified user.

|name
|string
a|UNIX user name to be added to the local database.

|primary_gid
|integer
a|Primary group ID to which the user belongs.

|skip_name_validation
|boolean
a|Indicates whether or not the validation for the specified UNIX user name
is disabled.

|svm

```

```

|link:#svm[svm]
a|

|===

.Example request
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "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
| 23724128
| The specified Unix user full-name contains invalid character ':'
| 23724089

```

```
| The specified UNIX user full-name is too long. Maximum supported length
is 256 characters.
```

```
| 23724055
```

```
| Internal error. Failed to modify the UNIX user for the SVM. Verify that
the cluster is healthy, then try the command again.
```

```
| 23724090
```

```
| Configuring individual entries is not supported because file-only
configuration is enabled.
```

```
|===
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|error
```

```
|link:#error[error]
```

```
a|
```

```
|===
```

```
.Example error
```

```
[%collapsible%closed]
```

```
====
```

```
[source,json,subs=+macros]
```

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

```
====
```

```
== Definitions
```

```
[.api-def-first-level]
```

```

.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
|===
|Name
|Type
|Description

|href
|string
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

|===

[#svm]
[.api-collapsible-fifth-title]
svm

[cols=3*,options=header]
|===
|Name
|Type
|Description

```

```
|_links
|link:#_links[_links]
a|
```

```
|name
|string
a|The name of the SVM.
```

```
|uuid
|string
a|The unique identifier of the SVM.
```

```
|===
```

```
[#unix_user]
[.api-collapsible-fifth-title]
unix_user
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
|_links
|link:#_links[_links]
a|
```

```
|full_name
|string
a|User's full name.
```

```
|id
|integer
a|UNIX user ID of the specified user.
```

```
|name
|string
a|UNIX user name to be added to the local database.
```



```
|primary_gid
|integer
a|Primary group ID to which the user belongs.
```

```
|skip_name_validation
|boolean
a|Indicates whether or not the validation for the specified UNIX user name
is disabled.
```

```
|svm
|link:#svm[svm]
a|
```

```
|===
```

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
|code
|string
a|Argument code
```

```
|message
|string
a|Message argument
```

```
|===
```

```
[#error]
[.api-collapsible-fifth-title]
error
```

```
[cols=3*,options=header]
```

```
|===
```

```

|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string
a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
====

```

```
:leveloffset: -1
```

```
:leveloffset: -1
```

```
:leveloffset: -1
```

```
<<<
```

```
*Copyright information*
```

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