



Manage Active Directory accounts

REST API reference

NetApp

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Manage Active Directory accounts

Protocols active-directory endpoint overview

Overview

You can use this API to display Active Directory account-related information of all SVMs or create a new Active Directory account.

Examples

Retrieving all Active Directory account details of all SVMs

```
# The API:  
GET /api/protocols/active-directory  
  
# The call:  
curl -X GET "https://<mgmt-ip>/api/protocols/active-directory?fields=*" -H  
"accept: application/json"  
  
# The response:  
{  
  "records": [  
    {  
      "svm": {  
        "uuid": "9166c7e8-1fcf-11ed-b037-0050568e9b8b",  
        "name": "vs1"  
      },  
      "organizational_unit": "CN=Computers",  
      "name": "SERVER1",  
      "fqdn": "EXAMPLE.COM"  
    }  
  ],  
  "num_records": 1  
}
```

Create a new Active Directory account

```

# The API:
POST /api/protocols/active-directory

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/active-directory" -H
"accept: application/json"
-d "{ \"force_account_overwrite\": false, \"fqdn\": \"example.com\", \"name\": \"account1\", \"password\": \"password\", \"svm\": { \"_links\": {}, \"name\": \"vs1\", \"uuid\": \"6fcfe07a-8a93-11ec-927a-0050568e205f\" }, \"username\": \"administrator\" }"

```

Retrieve Active Directory accounts for all SVMs

GET /protocols/active-directory

Introduced In: 9.12

Retrieves Active Directory accounts for all SVMs.

Related ONTAP commands

- vserver active-directory show
- vserver active-directory preferred-dc show
- vserver active-directory discovered-servers show

Parameters

| Name | Type | In | Required | Description |
|----------------------------------|--------|-------|----------|--|
| name | string | query | False | Filter by name <ul style="list-style-type: none"> • maxLength: 15 |
| svm.name | string | query | False | Filter by svm.name |
| svm.uuid | string | query | False | Filter by svm.uuid |
| discovered_servers. node.uuid | string | query | False | Filter by discovered_servers. node.uuid |

| Name | Type | In | Required | Description |
|--------------------------------|---------------|-------|----------|---|
| discovered_servers.node.name | string | query | False | Filter by discovered_servers.node.name |
| discovered_servers.state | string | query | False | Filter by discovered_servers.state |
| discovered_servers.preference | string | query | False | Filter by discovered_servers.preference |
| discovered_servers.server.type | string | query | False | Filter by discovered_servers.server.type |
| discovered_servers.server.ip | string | query | False | Filter by discovered_servers.server.ip |
| discovered_servers.server.name | string | query | False | Filter by discovered_servers.server.name |
| discovered_servers.domain | string | query | False | Filter by discovered_servers.domain |
| preferred_dcs.server_ip | string | query | False | Filter by preferred_dcs.server_ip |
| preferred_dcs.fqdn | string | query | False | Filter by preferred_dcs.fqdn <ul style="list-style-type: none"> maxLength: 254 |
| organizational_unit | string | query | False | Filter by organizational_unit |
| fqdn | string | query | False | Filter by fqdn <ul style="list-style-type: none"> maxLength: 254 |
| fields | array[string] | query | False | Specify the fields to return. |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|---|
| max_records | integer | query | False | Limit the number of records returned. |
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned. <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 | |
| num_records | integer | Number of Active Directory records. |
| records | array[active_directory] | |

Example response

```
{  
  "_links": {  
    "next": {  
      "href": "/api/resourcelink"  
    },  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "num_records": 1,  
  "records": [  
    {  
      "discovered_servers": [  
        {  
          "domain": "server1.com",  
          "node": {  
            "_links": {  
              "self": {  
                "href": "/api/resourcelink"  
              }  
            },  
            "name": "node1",  
            "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"  
          },  
          "preference": "preferred",  
          "server": {  
            "ip": "7.4.3.1",  
            "name": "scspk0659102001",  
            "type": "kerberos"  
          },  
          "state": "ok"  
        }  
      ],  
      "force_account_overwrite": "",  
      "fqdn": "server1.com",  
      "name": "account1",  
      "organizational_unit": "CN=Test",  
      "preferred_dcs": [  
        {  
          "fqdn": "test.com",  
          "server_ip": "4.4.4.4"  
        }  
      ],  
      "svm": {  
        "fqdn": "test.com",  
        "server_ip": "4.4.4.4"  
      }  
    }  
  ]  
}
```

```

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

```

Error

Status: Default, Error

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

Example error

```

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

```

Definitions

See Definitions

href

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

_links

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

_links

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

node

| Name | Type | Description |
|--------|--------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

active_directory_discovered_server_reference

| Name | Type | Description |
|------|--------|---|
| ip | string | The IP address of the server that was discovered. |
| name | string | Server Name |
| type | string | The type of the server that was discovered. |

discovered_servers

| Name | Type | Description |
|--------|--------|--|
| domain | string | The Active Directory domain that the discovered server is a member of. |
| node | node | |

| Name | Type | Description |
|------------|--|---|
| preference | string | The preference level of the server that was discovered. |
| server | active_directory_discovered_server_reference | |
| state | string | The status of the connection to the server that was discovered. |

preferred_dcs

| Name | Type | Description |
|-----------|--------|---|
| fqdn | string | Fully Qualified Domain Name. |
| server_ip | string | IP address of the preferred DC. The address can be either an IPv4 or an IPv6 address. |

svm

SVM, applies only to SVM-scoped objects.

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

active_directory

| Name | Type | Description |
|--------------------|---|---|
| discovered_servers | array[discovered_servers] | Specifies the discovered servers records. |
| fqdn | string | Fully qualified domain name. |
| name | string | Active Directory (AD) account NetBIOS name. |

| Name | Type | Description |
|---------------------|----------------------|---|
| organizational_unit | string | Organizational unit under which the Active Directory account will be created. |
| preferred_dcs | array[preferred_dcs] | Specifies the preferred domain controller (DC) records. |
| svm | svm | SVM, applies only to SVM-scoped objects. |

error_arguments

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

returned_error

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

Create an Active Directory account for an SVM

POST /protocols/active-directory

Introduced In: 9.12

Creates an Active Directory account for a given SVM.

Related ONTAP commands

- `vserver active-directory create`

Important notes

- Active Directory account creation is asynchronous. Response contains Task UUID and Link that can be queried to get the status.

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 |
|-------------------------|---|---|
| discovered_servers | array[discovered_servers] | Specifies the discovered servers records. |
| force_account_overwrite | boolean | If set to true and a machine account exists with the same name as specified in "name" in Active Directory, it will be overwritten and reused. |
| fqdn | string | Fully qualified domain name. |
| name | string | Active Directory (AD) account NetBIOS name. |
| organizational_unit | string | Organizational unit under which the Active Directory account will be created. |
| password | string | Administrator password required for Active Directory account creation, modification and deletion. |
| preferred_dcs | array[preferred_dcs] | Specifies the preferred domain controller (DC) records. |
| svm | svm | SVM, applies only to SVM-scoped objects. |

| Name | Type | Description |
|----------|--------|---|
| username | string | Administrator username required for Active Directory account creation, modification and deletion. |

Example request

```
{
  "discovered_servers": [
    {
      "domain": "server1.com",
      "node": {
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "preference": "preferred",
      "server": {
        "ip": "7.4.3.1",
        "name": "scspk0659102001",
        "type": "kerberos"
      },
      "state": "ok"
    }
  ],
  "force_account_overwrite": "",
  "fqdn": "server1.com",
  "name": "account1",
  "organizational_unit": "CN=Test",
  "password": "testpwd",
  "preferred_dcs": [
    {
      "fqdn": "test.com",
      "server_ip": "4.4.4.4"
    }
  ],
  "svm": {
    "name": "svml1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "username": "admin"
}
```

Response

Status: 201, Created

| Name | Type | Description |
|-------------------------|---|---|
| discovered_servers | array[discovered_servers] | Specifies the discovered servers records. |
| force_account_overwrite | boolean | If set to true and a machine account exists with the same name as specified in "name" in Active Directory, it will be overwritten and reused. |
| fqdn | string | Fully qualified domain name. |
| name | string | Active Directory (AD) account NetBIOS name. |
| organizational_unit | string | Organizational unit under which the Active Directory account will be created. |
| password | string | Administrator password required for Active Directory account creation, modification and deletion. |
| preferred_dcs | array[preferred_dcs] | Specifies the preferred domain controller (DC) records. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| username | string | Administrator username required for Active Directory account creation, modification and deletion. |

Example response

```
{  
  "discovered_servers": [  
    {  
      "domain": "server1.com",  
      "node": {  
        "name": "node1",  
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"  
      },  
      "preference": "preferred",  
      "server": {  
        "ip": "7.4.3.1",  
        "name": "scspk0659102001",  
        "type": "kerberos"  
      },  
      "state": "ok"  
    },  
    ],  
    "force_account_overwrite": "",  
    "fqdn": "server1.com",  
    "name": "account1",  
    "organizational_unit": "CN=Test",  
    "password": "testpwd",  
    "preferred_dcs": [  
      {  
        "fqdn": "test.com",  
        "server_ip": "4.4.4.4"  
      }  
    ],  
    "svm": {  
      "name": "svml1",  
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
    },  
    "username": "admin"  
  }  
}
```

Headers

| Name | Description | Type |
|----------|---|--------|
| Location | Useful for tracking the resource location | string |

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|---|
| 655562 | The NetBIOS name cannot be longer than 15 characters. |
| 655915 | A CIFS server for this SVM already exists. Having both a CIFS server and an Active Directory account for the same SVM is not supported. Use the \vserver cifs delete\ command to delete the existing CIFS server and try the command again. |
| 656464 | Failed to create the Active Directory machine account. Reason: Invalid Credentials. |
| 656465 | Failed to create the Active Directory machine account. Reason: An account with this name already exists. |
| 656466 | Failed to create the Active Directory machine account. Reason: Unable to connect to any domain controllers. |
| 656467 | Failed to create the Active Directory machine account. Reason: Organizational-Unit not found. |
| 656490 | Unable to create the Active Directory account. The Active Directory account name is already used by another SVM. |

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

Definitions

See Definitions

href

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

_links

node

| Name | Type | Description |
|------|--------|-------------|
| name | string | |
| uuid | string | |

active_directory_discovered_server_reference

| Name | Type | Description |
|------|--------|---|
| ip | string | The IP address of the server that was discovered. |
| name | string | Server Name |
| type | string | The type of the server that was discovered. |

discovered_servers

| Name | Type | Description |
|------------|--|--|
| domain | string | The Active Directory domain that the discovered server is a member of. |
| node | node | |
| preference | string | The preference level of the server that was discovered. |
| server | active_directory_discovered_server_reference | |
| state | string | The status of the connection to the server that was discovered. |

preferred_dcs

| Name | Type | Description |
|-----------|--------|---|
| fqdn | string | Fully Qualified Domain Name. |
| server_ip | string | IP address of the preferred DC. The address can be either an IPv4 or an IPv6 address. |

svm

SVM, applies only to SVM-scoped objects.

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

active_directory

| Name | Type | Description |
|-------------------------|---------------------------|---|
| discovered_servers | array[discovered_servers] | Specifies the discovered servers records. |
| force_account_overwrite | boolean | If set to true and a machine account exists with the same name as specified in "name" in Active Directory, it will be overwritten and reused. |
| fqdn | string | Fully qualified domain name. |
| name | string | Active Directory (AD) account NetBIOS name. |
| organizational_unit | string | Organizational unit under which the Active Directory account will be created. |
| password | string | Administrator password required for Active Directory account creation, modification and deletion. |

| Name | Type | Description |
|---------------|----------------------|---|
| preferred_dcs | array[preferred_dcs] | Specifies the preferred domain controller (DC) records. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| username | string | Administrator username required for Active Directory account creation, modification and deletion. |

error_arguments

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

returned_error

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

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