



# **Manage Active Directory accounts**

## **REST API reference**

NetApp

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# Manage Active Directory accounts

## Manage Active Directory accounts

### 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",
      "security": {
        "advertised_kdc_encryptions": [
          "des"
        ]
      }
    }
  ],
  "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\", \"security\": { \"advertised_kdc_encryptions\": [
\"des\" ] } }"
```

## 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`
- `vserver cifs security show`

### Parameters

Name	Type	In	Required	Description
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"><li>• maxLength: 254</li></ul>

Name	Type	In	Required	Description
fqdn	string	query	False	Filter by fqdn <ul style="list-style-type: none"> <li>• maxLength: 254</li> </ul>
security.advertised_kdc_encryptions	string	query	False	Filter by security.advertised_kdc_encryptions <ul style="list-style-type: none"> <li>• Introduced in: 9.17</li> </ul>
discovered_servers.server.type	string	query	False	Filter by discovered_servers.server.type
discovered_servers.server.name	string	query	False	Filter by discovered_servers.server.name
discovered_servers.server.ip	string	query	False	Filter by discovered_servers.server.ip
discovered_servers.state	string	query	False	Filter by discovered_servers.state
discovered_servers.domain	string	query	False	Filter by discovered_servers.domain
discovered_servers.node.name	string	query	False	Filter by discovered_servers.node.name
discovered_servers.node.uuid	string	query	False	Filter by discovered_servers.node.uuid
discovered_servers.preference	string	query	False	Filter by discovered_servers.preference
organizational_unit	string	query	False	Filter by organizational_unit

Name	Type	In	Required	Description
name	string	query	False	Filter by name <ul style="list-style-type: none"> <li>• maxLength: 15</li> </ul>
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>
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"> <li>• Default value: 15</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

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

## 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"
        }
      ],
      "security": {
```

```

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

```

## Error

Status: Default, Error

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

## Example error

```

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

```

**Definitions**

## See Definitions

href

Name	Type	Description
href	string	

\_links

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

\_links

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

node

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

Name	Type	Description
preference	string	The preference level of the server that was discovered.
server	<a href="#">active_directory_discovered_server_reference</a>	
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.

#### active\_directory\_security

Name	Type	Description
advertised_kdc_encryptions	array[string]	

#### svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
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[ <a href="#">discovered_servers</a> ]	Specifies the discovered servers records.

Name	Type	Description
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.
preferred_dcs	array[ <a href="#">preferred_dcs</a> ]	Specifies the preferred domain controller (DC) records.
security	<a href="#">active_directory_security</a>	
svm	<a href="#">svm</a>	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[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create an 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	The default is false. If set to true, the records are returned. <ul style="list-style-type: none"><li>• Default value:</li></ul>

## Request Body

Name	Type	Description
discovered_servers	array[ <a href="#">discovered_servers</a> ]	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[ <a href="#">preferred_dcs</a> ]	Specifies the preferred domain controller (DC) records.
security	<a href="#">active_directory_security</a>	

Name	Type	Description
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
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"
    }
  ],
  "security": {
    "advertised_kdc_encryptions": [
      "string"
    ]
  },
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "username": "admin"
}
```

## Response

Status: 201, Created

Name	Type	Description
discovered_servers	array[ <a href="#">discovered_servers</a> ]	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[ <a href="#">preferred_dcs</a> ]	Specifies the preferred domain controller (DC) records.
security	<a href="#">active_directory_security</a>	
svm	<a href="#">svm</a>	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"
    }
  ],
  "security": {
    "advertised_kdc_encryptions": [
      "string"
    ]
  },
  "svm": {
    "name": "svm1",
    "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.
656491	Failed to create the Active Directory machine account. Reason: This operation is supported only on data SVMs.
656494	The Active Directory was created but was not fully configured.
656495	Failed to update Active Directory security settings for SVM.
656496	Failed to update Active Directory security settings for SVM. Reason: KDC has no support for encryption type.

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	<a href="#">node</a>	
preference	string	The preference level of the server that was discovered.
server	<a href="#">active_directory_discovered_server_reference</a>	
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.

#### active\_directory\_security

Name	Type	Description
advertised_kdc_encryptions	array[string]	

#### 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[ <a href="#">discovered_servers</a> ]	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.

Name	Type	Description
password	string	Administrator password required for Active Directory account creation, modification and deletion.
preferred_dcs	array[ <a href="#">preferred_dcs</a> ]	Specifies the preferred domain controller (DC) records.
security	<a href="#">active_directory_security</a>	
svm	<a href="#">svm</a>	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[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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