Manage Active Directory accounts

REST API reference

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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 • maxLength: 15
preferred_dcs.server_ip	string	query	False	Filter by preferred_dcs.server_ip
preferred_dcs.fqdn	string	query	False	Filter by preferred_dcs.fqdn • maxLength: 254

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

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
num_records	integer	Number of 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": {
```

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


Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_error	

Example error


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


Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

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	The default is false. If set to true, the records are returned. • 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": "svm1",
    "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": "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.

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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