



Manage Active Directory accounts

ONTAP 9.14.1 REST API reference

NetApp
May 23, 2024

Table of Contents

- Manage Active Directory accounts 1
 - Protocols active-directory endpoint overview 1
 - Retrieve Active Directory accounts for all SVMs 2
 - Create an Active Directory account for an SVM 10

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 |
| 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 |

| 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 <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",
    "password": "testpwd",
    "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"
  },
  "username": "admin"
}
}
```

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. |
| 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. |

| 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. |
| 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. |

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. |

| Name | Type | Description |
|---------------|--|---|
| 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 request

```
{
  "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",
  "password": "testpwd",
  "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"
  },
  "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": {
      "_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",
  "password": "testpwd",
  "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"
  },
  "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 <code>"vserver cifs delete\"</code> 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.

| 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 |
|------|----------------------|-------------|
| 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 | |
| preference | string | The preference level of the server that was discovered. |
| server | active_directory_discovered_server_reference | |

| Name | Type | Description |
|-------|--------|---|
| 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. |
| 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. |

| Name | Type | Description |
|---------------------|--|---|
| 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. |

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. |

Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.