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Manage Active Directory accounts for an SVM

REST API reference

NetApp
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Overview

You can use this API to display or modify Active Directory account details of the specified SVM. It can also be used to delete an Active Directory account for the specified SVM.

Examples

Retrieving all Active Directory account details of a specific SVM

```
# The API:
GET /api/protocols/active-directory/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/active-directory/6dd78167-
c907-11eb-b2bf-0050568e7324" -H "accept: application/json"

# The response:
{
"svm": {
  "uuid": "6dd78167-c907-11eb-b2bf-0050568e7324",
  "name": "vs1"
},
"organizational_unit": "CN=Computers",
"name": "ACCOUNT1",
"fqdn": "EXAMPLE.COM",
"security": {
  "advertised_kdc_encryptions": [
    "des"
  ]
}
}
```

Update the Active Directory account details of a specific SVM

```
# The API:
PATCH /api/protocols/active-directory/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/active-directory/6dd78167-
c907-11eb-b2bf-0050568e7324" -H "accept: application/json"
            -d "{  \"force_account_overwrite\": true,  \"fqdn\":
\"example.com\",  \"password\": \"password\",  \"username\":
\"administrator\", \"security\": { \"advertised_kdc_encryptions\": [
\"des\" ] } }"
```

Delete an Active Directory account of a specific SVM

```
# The API:
DELETE /api/protocols/active-directory/{svm.uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/active-directory/6dd78167-
c907-11eb-b2bf-0050568e7324" -H "accept: application/json" -d "{
\"password\": \"password\",  \"username\": \"administrator\"}"
```

Delete an Active Directory account for an SVM

DELETE /protocols/active-directory/{svm.uuid}

Introduced In: 9.12

Deletes the Active Directory account for a given SVM.

Related ONTAP commands

- `vserver active-directory delete`

Important notes

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

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
password	string	Administrator password required for Active Directory account creation.
username	string	Administrator username required for Active Directory account creation.

Example request

```
{
    "password": "testpwd",
    "username": "admin"
}
```

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
655414	Failed to remove Active Directory machine.
655431	Username cannot be empty.
655432	Password cannot be empty.

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

active_directory_delete

Name	Type	Description
password	string	Administrator password required for Active Directory account creation.
username	string	Administrator username required for Active Directory account creation.

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.

Retrieve an Active Directory account for an SVM

GET `/protocols/active-directory/{svm.uuid}`

Introduced In: 9.12

Retrieves the Active Directory account for a given SVM.

Related ONTAP commands

- `vserver active-directory show`
- `vserver active-directory preferred-dc show`

- vserver active-directory discovered-servers show
- vserver active-directory discovered-servers reset-servers
- vserver cifs security show

Parameters

Name	Type	In	Required	Description
reset_discovered_servers	boolean	query	False	Force a rediscovery. • Default value:
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
discovered_servers	array[discovered_servers]	Specifies the discovered servers records.
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[preferred_dcs]	Specifies the preferred domain controller (DC) records.
security	active_directory_security	
svm	svm	SVM, applies only to SVM-scoped objects.

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",
  "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	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.

active_directory_security

Name	Type	Description
advertised_kdc_encryptions	array[string]	

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.

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.

Modify an Active Directory account for an SVM

PATCH /protocols/active-directory/{svm.uuid}

Introduced In: 9.12

Modifies the Active Directory account for a given SVM.

Related ONTAP commands

- `vserver active-directory modify`
- `vserver cifs security modify`

Important notes

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

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
discovered_servers	array[discovered_servers]	Specifies the discovered servers records.

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

Example request

```json
{
  "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",
  "password": "testpwd",
  "preferred_dcs": [
    {}
  ],
  "security": {
    "advertised_kdc_encryptions": [
      "string"
    ]
  },
  "username": "admin"
}
```

Response

```
Status: 200, Ok
```

Name	Type	Description
discovered_servers	array[discovered_servers]	Specifies the discovered servers records.

Name	Type	Description
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.
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.
security	active_directory_security	
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",
  "password": "testpwd",
  "preferred_dcs": [
    {}
  ],
  "security": {
    "advertised_kdc_encryptions": [
      "string"
    ]
  },
  "username": "admin"
}
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
656464	Failed to modify the Active Directory machine account. Reason: Invalid Credentials.

Error Code	Description
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 modify the Active Directory machine account. Reason: Organizational-Unit not found.
656478	Failed to create the Active Directory machine account. Reason: KDC has no support for encryption type.
656490	Unable to modify the Active Directory account. The Active Directory account name is already used by another SVM.
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	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

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[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.
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.
security	active_directory_security	
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.