



# **Manage CIFS services**

## **REST API reference**

NetApp

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# Manage CIFS services

## Manage CIFS services

### Overview

A CIFS server is necessary to provide SMB clients with access to the Storage Virtual Machine (SVM). Before you begin, the following prerequisites must be in place:

- At least one SVM LIF must exist on the SVM.
- The LIFs must be able to connect to the DNS servers configured on the SVM and to an Active Directory domain controller of the domain to which you want to join the CIFS server.
- The DNS servers must contain the service location records that are needed to locate the Active Directory domain services.
- The cluster time must be synchronized to within five minutes of the Active Directory domain controller.

### Information on the CIFS server

You must keep the following in mind when creating the CIFS server:

- The CIFS server name might or might not be the same as the SVM name.
- The CIFS server name can be up to 15 characters in length.
- The following characters are not allowed: @ # \* ( ) = + [ ] \ | ; : " , < > \ / ?
- You must use the FQDN when specifying the domain.
- The default is to add the CIFS server machine account to the Active Directory "CN=Computer" object.
- You can choose to add the CIFS server to a different organizational unit (OU) by specifying the "organizational\_unit" parameter. When specifying the OU, do not specify the domain portion of the distinguished name; only specify the OU or CN portion of the distinguished name. ONTAP appends the value provided for the required "-domain" parameter onto the value provided for the "-ou" parameter to create the Active Directory distinguished name, which is used when joining the Active Directory domain.
- You can optionally choose to add a text comment of up to 48 characters about the CIFS server. If there is a space in the comment text, you must enclose the entire string in quotation marks.
- You can optionally choose to add a comma-delimited list of one or more NetBIOS aliases for the CIFS server.
- The initial administrative status of the CIFS server is "up".
- The `<i>large-mtu</i>` and `<em>multichannel</em>` features are enabled for the new CIFS server.
- If LDAP is configured with the `use_start_tls` and `session_security` features, the new CIFS server will also have this property set.

### Examples

#### Creating a CIFS server

To create a CIFS server, use the following API. Note the `return_records=true` query parameter used to obtain the newly created entry in the response.

```
# The API:
POST /api/protocols/cifs/services

# The call:
curl -X POST "https://<mgmt-
ip>/api/protocols/cifs/services?return_records=true" -H "accept:
application/json" -H "Content-Type: application/json" -d "{ \"ad_domain\":
{ \"fqdn\": \"CIFS-2008R2-AD.GDL.ENGLAB.NETAPP.COM\",
\"organizational_unit\": \"CN=Computers\", \"password\": \"cifs*123\",
\"user\": \"administrator\" }, \"comment\": \"This CIFS Server Belongs to
CS Department\", \"default_unix_user\": \"string\", \"enabled\": true,
\"name\": \"CIFS-DOC\", \"netbios\": { \"aliases\": [ \"ALIAS_1\",
\"ALIAS_2\", \"ALIAS_3\" ], \"enabled\": false, \"wins_servers\": [
\"10.224.65.20\", \"10.224.65.21\" ] }, \"security\": {
\"kdc_encryption\": false, \"restrict_anonymous\": \"no_enumeration\",
\"smb_encryption\": false, \"smb_signing\": false }, \"svm\": { \"name\":
\"vs1\", \"uuid\": \"ef087155-f9e2-11e8-ac52-0050568ea248\" }}"

# The response:
{
  "num_records": 1,
  "records": [
    {
      "svm": {
        "uuid": "9f5ab4cb-f703-11e8-91cc-0050568eca13",
        "name": "vs1"
      },
      "name": "CIFS-DOC",
      "ad_domain": {
        "fqdn": "CIFS-2008R2-AD.GDL.ENGLAB.NETAPP.COM",
        "user": "administrator",
        "password": "cifs*123",
        "organizational_unit": "CN=Computers"
      },
      "enabled": true,
      "comment": "This CIFS Server Belongs to CS Department",
      "security": {
        "restrict_anonymous": "no_enumeration",
        "smb_signing": false,
        "smb_encryption": false,
        "kdc_encryption": false
      },
      "netbios": {
        "aliases": [
          "ALIAS_1",

```

```

        "ALIAS_2",
        "ALIAS_3"
    ],
    "wins_servers": [
        "10.224.65.20",
        "10.224.65.21"
    ],
    "enabled": false
},
"default_unix_user": "string"
}
],
"job": {
    "uuid": "f232b6da-00a4-11e9-a8c1-0050568eca13",
    "_links": {
        "self": {
            "href": "/api/cluster/jobs/f232b6da-00a4-11e9-a8c1-0050568eca13"
        }
    }
}
}
}

```

---

## Retrieving the full CIFS server configuration for all SVMs in the cluster

---

```

# The API:
GET /api/protocols/cifs/services

# The call:
curl -X GET "https://<mgmt-
ip>/api/protocols/cifs/services?fields=*&return_records=true&return_timeou
t=15" -H "accept: application/json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "9f5ab4cb-f703-11e8-91cc-0050568eca13",
        "name": "vs1"
      },
      "name": "CIFS-DOC",
      "ad_domain": {

```

```
    "fqdn": "CIFS-2008R2-AD.GDL.ENGLAB.NETAPP.COM",
    "organizational_unit": "CN=Computers"
  },
  "enabled": true,
  "comment": "This CIFS Server Belongs to CS Department",
  "security": {
    "restrict_anonymous": "no_enumeration",
    "smb_signing": false,
    "smb_encryption": false,
    "kdc_encryption": false
  },
  "netbios": {
    "aliases": [
      "ALIAS_1",
      "ALIAS_2",
      "ALIAS_3"
    ],
    "wins_servers": [
      "10.224.65.20",
      "10.224.65.21"
    ],
    "enabled": false
  },
  "default_unix_user": "string"
}
],
"num_records": 1
}
```

---

## Retrieving CIFS server configuration details for a specific SVM

---

```
# The API:
GET /api/protocols/cifs/services/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/cifs/services/9f5ab4cb-f703-11e8-91cc-0050568eca13" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "9f5ab4cb-f703-11e8-91cc-0050568eca13",
    "name": "vs1"
  },
  "name": "CIFS-DOC",
  "ad_domain": {
    "fqdn": "CIFS-2008R2-AD.GDL.ENGLAB.NETAPP.COM",
    "organizational_unit": "CN=Computers"
  },
  "enabled": true,
  "comment": "This CIFS Server Belongs to CS Department",
  "security": {
    "restrict_anonymous": "no_enumeration",
    "smb_signing": false,
    "smb_encryption": false,
    "kdc_encryption": false
  },
  "netbios": {
    "aliases": [
      "ALIAS_1",
      "ALIAS_2",
      "ALIAS_3"
    ],
    "wins_servers": [
      "10.224.65.20",
      "10.224.65.21"
    ],
    "enabled": false
  },
  "default_unix_user": "string"
}
```



## Updating CIFS server properties for the specified SVM

```
# The API:
PATCH /api/protocols/cifs/services/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/cifs/services/9f5ab4cb-f703-11e8-91cc-0050568eca13" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"comment\": \"CIFS SERVER MODIFICATION\" }"
```

## Removing a CIFS server for a specific SVM

To delete a CIFS server, use the following API. This will delete the CIFS server along with other CIFS configurations such as CIFS share, share ACLs, homedir search-path, and so on.

```
# The API:
DELETE /api/protocols/cifs/services/{svm.uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/cifs/services/9f5ab4cb-f703-11e8-91cc-0050568eca13" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"ad_domain\": { \"password\": \"cifs*123\", \"user\": \"administrator\" } }"
```

## Retrieves cifs servers

### related ontap commands

- `vserver cifs server show`
- `vserver cifs server options show`
- `vserver cifs server security show` [# learn more](#)
- `[doc /protocols/cifs/services](#docs-nas-protocols_cifs_services)`

GET /protocols/cifs/services

Retrieves CIFS servers.

## Related ONTAP commands

- `vserver cifs server show`
- `vserver cifs server options show`
- `vserver cifs server security show`

## Learn more

- [DOC /protocols/cifs/services](#)

## Parameters

Name	Type	In	Required	Description
name	string	query	False	Filter by name
default_unix_user	string	query	False	Filter by default_unix_user
netbios.aliases	string	query	False	Filter by netbios.aliases
netbios.wins_servers	string	query	False	Filter by netbios.wins_servers
netbios.enabled	boolean	query	False	Filter by netbios.enabled
comment	string	query	False	Filter by comment
security.smb_encryption	boolean	query	False	Filter by security.smb_encryption
security.smb_signing	boolean	query	False	Filter by security.smb_signing
security.restrict_anonymous	string	query	False	Filter by security.restrict_anonymous
security.kdc_encryption	boolean	query	False	Filter by security.kdc_encryption
svm.name	string	query	False	Filter by svm.name

Name	Type	In	Required	Description
svm.uuid	string	query	False	Filter by svm.uuid
ad_domain.organizational_unit	string	query	False	Filter by ad_domain.organizational_unit
ad_domain.user	string	query	False	Filter by ad_domain.user
ad_domain.fqdn	string	query	False	Filter by ad_domain.fqdn
enabled	boolean	query	False	Filter by enabled
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.
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.
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 records
records	array[ <a href="#">cifs_service</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ad_domain": {
        "fqdn": "example.com",
        "organizational_unit": "string",
        "user": "string"
      },
      "comment": "This CIFS Server Belongs to CS Department",
      "default_unix_user": "string",
      "name": "CIFS1",
      "netbios": {
        "aliases": [
          "ALIAS_1",
          "ALIAS_2",
          "ALIAS_3"
        ],
        "wins_servers": [
          "10.224.65.20",
          "10.224.65.21"
        ]
      },
      "security": {
        "restrict_anonymous": "string"
      },
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        }
      }
    },
  ],
}
```

```
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

## Error

Status: Default, Error

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

\_links

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

ad\_domain

Name	Type	Description
fqdn	string	The fully qualified domain name of the Windows Active Directory to which this CIFS server belongs. A CIFS server appears as a member of Windows server object in the Active Directory store. POST and PATCH only.
organizational_unit	string	Specifies the organizational unit within the Active Directory domain to associate with the CIFS server. POST and PATCH only.
user	string	The user account used to add this CIFS server to the Active Directory. POST and DELETE only.

cifs\_netbios

Name	Type	Description
aliases	array[string]	

Name	Type	Description
enabled	boolean	Specifies whether NetBios name service (NBNS) is enabled for the CIFS. If this service is enabled, the CIFS server will start sending the broadcast for name registration.
wins_servers	array[string]	

cifs\_service\_security



Name	Type	Description
kdc_encryption	boolean	<p>Specifies whether AES-128 and AES-256 encryption is enabled for all Kerberos-based communication with the Active Directory KDC. To take advantage of the strongest security with Kerberos-based communication, AES-256 and AES-128 encryption can be enabled on the CIFS server. Kerberos-related communication for CIFS is used during CIFS server creation on the SVM, as well as during the SMB session setup phase. The CIFS server supports the following encryption types for Kerberos communication:</p> <ul style="list-style-type: none"> <li>• RC4-HMAC</li> <li>• DES</li> <li>• AES When the CIFS server is created, the domain controller creates a computer machine account in Active Directory. After a newly created machine account authenticates, the KDC and the CIFS server negotiates encryption types. At this time, the KDC becomes aware of the encryption capabilities of the particular machine account and uses those capabilities in subsequent communication with the CIFS server. In addition to negotiating encryption types during CIFS server creation, the encryption types are renegotiated when a machine account password is reset.</li> </ul>

Name	Type	Description
restrict_anonymous	string	<p>Specifies what level of access an anonymous user is granted. An anonymous user (also known as a "null user") can list or enumerate certain types of system information from Windows hosts on the network, including user names and details, account policies, and share names. Access for the anonymous user can be controlled by specifying one of three access restriction settings. The available values are:</p> <ul style="list-style-type: none"> <li>• no_restriction - No access restriction for an anonymous user.</li> <li>• no_enumeration - Enumeration is restricted for an anonymous user.</li> <li>• no_access - All access is restricted for an anonymous user.</li> </ul>
smb_encryption	boolean	Specifies whether encryption is required for incoming CIFS traffic.
smb_signing	boolean	Specifies whether signing is required for incoming CIFS traffic. SMB signing helps to ensure that network traffic between the CIFS server and the client is not compromised.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

cifs\_service

Name	Type	Description
_links	<a href="#">_links</a>	
ad_domain	<a href="#">ad_domain</a>	
comment	string	A descriptive text comment for the CIFS server. SMB clients can see the CIFS server comment when browsing servers on the network. If there is a space in the comment, you must enclose the entire string in quotation marks.
default_unix_user	string	Specifies the UNIX user to which any authenticated CIFS user is mapped to, if the normal user mapping rules fails.
enabled	boolean	Specifies if the CIFS service is administratively enabled.
name	string	The name of the CIFS server.
netbios	<a href="#">cifs_netbios</a>	
security	<a href="#">cifs_service_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

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message

Name	Type	Description
target	string	The target parameter that caused the error.

## Creates a cifs server each svm can have one cifs server

### important notes

- the cifs server name might or might not be the same as the svm name
- the cifs server name can contain up to 15 characters
- the cifs server name does not support the following characters: @ # \* ( ) = + [ ] | ; : " , < > / ? # required properties
  - svmuuid or svmname - existing svm in which to create the cifs server
  - name - name of the cifs server
  - ad\_domainfqdn - fully qualified domain name of the windows active directory to which this cifs server belongs
  - ad\_domainuser - user account with the access to add the cifs server to the active directory
  - ad\_domainpassword - account password used to add this cifs server to the active directory # recommended optional properties
  - comment - add a text comment of up to 48 characters about the cifs server
  - netbiosaliases - add a comma-delimited list of one or more netbios aliases for the cifs server
  - netbioswins\_servers - add a list of windows internet name server (wins) addresses that manage and map the netbios name of the cifs server to their network ip addresses the ip addresses must be ipv4 addresses # default property values if not specified in post, the following default property values are assigned:
    - ad\_domainorganizational\_unit - cn=computers
    - enabled - true
    - restrict\_anonymous - no\_enumeration
    - smb\_signing - false
    - smb\_encryption - false
    - kdc\_encryption - false
    - default\_unix\_user - pcuser
    - netbios\_enabled - false however, if either "netbioswins-server" or "netbiosaliases" is set during post and if netbios\_enabled is not specified then netbios\_enabled is set to true # related ontap commands
  - vservers cifs server create
  - vservers cifs server options modify

- `vserver cifs security modify`
- `vserver cifs server add-netbios-aliases` [# learn more](#)
- `[doc /protocols/cifs/services](#docs-nas-protocols_cifs_services)`

POST /protocols/cifs/services

Creates a CIFS server. Each SVM can have one CIFS server.

## Important notes

- The CIFS server name might or might not be the same as the SVM name.
- The CIFS server name can contain up to 15 characters.
- The CIFS server name does not support the following characters: @ # \* ( ) = + [ ] \ | ; : " , < > / ?

## Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the CIFS server.
- `name` - Name of the CIFS server.
- `ad_domain.fqdn` - Fully qualified domain name of the Windows Active Directory to which this CIFS server belongs.
- `ad_domain.user` - User account with the access to add the CIFS server to the Active Directory.
- `ad_domain.password` - Account password used to add this CIFS server to the Active Directory.

## Recommended optional properties

- `comment` - Add a text comment of up to 48 characters about the CIFS server.
- `netbios.aliases` - Add a comma-delimited list of one or more NetBIOS aliases for the CIFS server.
- `netbios.wins_servers` - Add a list of Windows Internet Name Server (WINS) addresses that manage and map the NetBIOS name of the CIFS server to their network IP addresses. The IP addresses must be IPv4 addresses.

## Default property values

If not specified in POST, the following default property values are assigned:

- `ad_domain.organizational_unit` - *CN=Computers*
- `enabled` - *true*
- `restrict_anonymous` - *no\_enumeration*
- `smb_signing` - *false*
- `smb_encryption` - *false*
- `kdc_encryption` - *false*
- `default_unix_user` - *pcuser*
- `netbios_enabled` - *false* However, if either "netbios.wins-server" or "netbios.aliases" is set during POST

and if `netbios_enabled` is not specified then `netbios_enabled` is set to `true`.

## Related ONTAP commands

- `vserver cifs server create`
- `vserver cifs server options modify`
- `vserver cifs security modify`
- `vserver cifs server add-netbios-aliases`

## Learn more

- [DOC /protocols/cifs/services](#)

## Request Body

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
<code>ad_domain</code>	<a href="#">ad_domain</a>	
<code>comment</code>	string	A descriptive text comment for the CIFS server. SMB clients can see the CIFS server comment when browsing servers on the network. If there is a space in the comment, you must enclose the entire string in quotation marks.
<code>default_unix_user</code>	string	Specifies the UNIX user to which any authenticated CIFS user is mapped to, if the normal user mapping rules fails.
<code>enabled</code>	boolean	Specifies if the CIFS service is administratively enabled.
<code>name</code>	string	The name of the CIFS server.
<code>netbios</code>	<a href="#">cifs_netbios</a>	
<code>security</code>	<a href="#">cifs_service_security</a>	
<code>svm</code>	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "ad_domain": {
    "fqdn": "example.com",
    "organizational_unit": "string",
    "password": "string",
    "user": "string"
  },
  "comment": "This CIFS Server Belongs to CS Department",
  "default_unix_user": "string",
  "name": "CIFS1",
  "netbios": {
    "aliases": [
      "ALIAS_1",
      "ALIAS_2",
      "ALIAS_3"
    ],
    "wins_servers": [
      "10.224.65.20",
      "10.224.65.21"
    ]
  },
  "security": {
    "restrict_anonymous": "string"
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

## Response

Status: 202, Accepted

Name	Type	Description
job	<a href="#">job_link</a>	

### Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

## Error

Status: Default, Error

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

ad\_domain

Name	Type	Description
fqdn	string	The fully qualified domain name of the Windows Active Directory to which this CIFS server belongs. A CIFS server appears as a member of Windows server object in the Active Directory store. POST and PATCH only.
organizational_unit	string	Specifies the organizational unit within the Active Directory domain to associate with the CIFS server. POST and PATCH only.
password	string	The account password used to add this CIFS server to the Active Directory. This is not audited.
user	string	The user account used to add this CIFS server to the Active Directory. POST and DELETE only.

cifs\_netbios

Name	Type	Description
aliases	array[string]	

Name	Type	Description
enabled	boolean	Specifies whether NetBios name service (NBNS) is enabled for the CIFS. If this service is enabled, the CIFS server will start sending the broadcast for name registration.
wins_servers	array[string]	

cifs\_service\_security

Name	Type	Description
kdc_encryption	boolean	<p>Specifies whether AES-128 and AES-256 encryption is enabled for all Kerberos-based communication with the Active Directory KDC. To take advantage of the strongest security with Kerberos-based communication, AES-256 and AES-128 encryption can be enabled on the CIFS server. Kerberos-related communication for CIFS is used during CIFS server creation on the SVM, as well as during the SMB session setup phase. The CIFS server supports the following encryption types for Kerberos communication:</p> <ul style="list-style-type: none"> <li>• RC4-HMAC</li> <li>• DES</li> <li>• AES When the CIFS server is created, the domain controller creates a computer machine account in Active Directory. After a newly created machine account authenticates, the KDC and the CIFS server negotiates encryption types. At this time, the KDC becomes aware of the encryption capabilities of the particular machine account and uses those capabilities in subsequent communication with the CIFS server. In addition to negotiating encryption types during CIFS server creation, the encryption types are renegotiated when a machine account password is reset.</li> </ul>

Name	Type	Description
restrict_anonymous	string	<p>Specifies what level of access an anonymous user is granted. An anonymous user (also known as a "null user") can list or enumerate certain types of system information from Windows hosts on the network, including user names and details, account policies, and share names. Access for the anonymous user can be controlled by specifying one of three access restriction settings. The available values are:</p> <ul style="list-style-type: none"> <li>• no_restriction - No access restriction for an anonymous user.</li> <li>• no_enumeration - Enumeration is restricted for an anonymous user.</li> <li>• no_access - All access is restricted for an anonymous user.</li> </ul>
smb_encryption	boolean	Specifies whether encryption is required for incoming CIFS traffic.
smb_signing	boolean	Specifies whether signing is required for incoming CIFS traffic. SMB signing helps to ensure that network traffic between the CIFS server and the client is not compromised.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

cifs\_service

Name	Type	Description
_links	<a href="#">_links</a>	
ad_domain	<a href="#">ad_domain</a>	
comment	string	A descriptive text comment for the CIFS server. SMB clients can see the CIFS server comment when browsing servers on the network. If there is a space in the comment, you must enclose the entire string in quotation marks.
default_unix_user	string	Specifies the UNIX user to which any authenticated CIFS user is mapped to, if the normal user mapping rules fails.
enabled	boolean	Specifies if the CIFS service is administratively enabled.
name	string	The name of the CIFS server.
netbios	<a href="#">cifs_netbios</a>	
security	<a href="#">cifs_service_security</a>	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.

#### job\_link

Name	Type	Description
_links	<a href="#">_links</a>	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### 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.

## Deletes a cifs server and related cifs configurations

### related ontap commands

- `vserver cifs server delete`
- `vserver cifs remove-netbios-aliases` <#> learn more
- `[doc /protocols/cifs/services](#docs-nas-protocols_cifs_services)`

DELETE /protocols/cifs/services/{svm.uuid}

Deletes a CIFS server and related CIFS configurations.

### Related ONTAP commands

- `vserver cifs server delete`
- `vserver cifs remove-netbios-aliases`

### Learn more

- [DOC /protocols/cifs/services](#)

### 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
ad_domain	<a href="#">ad_domain</a>	

### Example request

```
{
  "ad_domain": {
    "fqdn": "example.com",
    "organizational_unit": "string",
    "password": "string",
    "user": "string"
  }
}
```

### Response

Status: 202, Accepted

Name	Type	Description
job	<a href="#">job_link</a>	

### Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

### Error

Status: Default, Error

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



### Example error

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

### Definitions

## See Definitions

ad\_domain

Name	Type	Description
fqdn	string	The fully qualified domain name of the Windows Active Directory to which this CIFS server belongs. A CIFS server appears as a member of Windows server object in the Active Directory store. POST and PATCH only.
organizational_unit	string	Specifies the organizational unit within the Active Directory domain to associate with the CIFS server. POST and PATCH only.
password	string	The account password used to add this CIFS server to the Active Directory. This is not audited.
user	string	The user account used to add this CIFS server to the Active Directory. POST and DELETE only.

cifs\_service\_delete

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

href

Name	Type	Description
href	string	

\_links

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

job\_link

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

Name	Type	Description
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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.

## Retrieves a cifs server

### related ontap commands

- `vserver cifs server show`
- `vserver cifs server options show`
- `vserver cifs server security show` [# learn more](#)
- `[doc /protocols/cifs/services](#docs-nas-protocols_cifs_services)`

GET /protocols/cifs/services/{svm.uuid}

Retrieves a CIFS server.

### Related ONTAP commands

- `vserver cifs server show`
- `vserver cifs server options show`
- `vserver cifs server security show`

## Learn more

- [DOC /protocols/cifs/services](#)

## Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
ad_domain	<a href="#">ad_domain</a>	
comment	string	A descriptive text comment for the CIFS server. SMB clients can see the CIFS server comment when browsing servers on the network. If there is a space in the comment, you must enclose the entire string in quotation marks.
default_unix_user	string	Specifies the UNIX user to which any authenticated CIFS user is mapped to, if the normal user mapping rules fails.
enabled	boolean	Specifies if the CIFS service is administratively enabled.
name	string	The name of the CIFS server.
netbios	<a href="#">cifs_netbios</a>	
security	<a href="#">cifs_service_security</a>	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "ad_domain": {
    "fqdn": "example.com",
    "organizational_unit": "string",
    "user": "string"
  },
  "comment": "This CIFS Server Belongs to CS Department",
  "default_unix_user": "string",
  "name": "CIFS1",
  "netbios": {
    "aliases": [
      "ALIAS_1",
      "ALIAS_2",
      "ALIAS_3"
    ],
    "wins_servers": [
      "10.224.65.20",
      "10.224.65.21"
    ]
  },
  "security": {
    "restrict_anonymous": "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="#">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
self	<a href="#">href</a>	

ad\_domain

Name	Type	Description
fqdn	string	The fully qualified domain name of the Windows Active Directory to which this CIFS server belongs. A CIFS server appears as a member of Windows server object in the Active Directory store. POST and PATCH only.
organizational_unit	string	Specifies the organizational unit within the Active Directory domain to associate with the CIFS server. POST and PATCH only.
user	string	The user account used to add this CIFS server to the Active Directory. POST and DELETE only.

cifs\_netbios

Name	Type	Description
aliases	array[string]	
enabled	boolean	Specifies whether NetBios name service (NBNS) is enabled for the CIFS. If this service is enabled, the CIFS server will start sending the broadcast for name registration.
wins_servers	array[string]	

Name	Type	Description
kdc_encryption	boolean	<p>Specifies whether AES-128 and AES-256 encryption is enabled for all Kerberos-based communication with the Active Directory KDC. To take advantage of the strongest security with Kerberos-based communication, AES-256 and AES-128 encryption can be enabled on the CIFS server. Kerberos-related communication for CIFS is used during CIFS server creation on the SVM, as well as during the SMB session setup phase. The CIFS server supports the following encryption types for Kerberos communication:</p> <ul style="list-style-type: none"><li>• RC4-HMAC</li><li>• DES</li><li>• AES When the CIFS server is created, the domain controller creates a computer machine account in Active Directory. After a newly created machine account authenticates, the KDC and the CIFS server negotiates encryption types. At this time, the KDC becomes aware of the encryption capabilities of the particular machine account and uses those capabilities in subsequent communication with the CIFS server. In addition to negotiating encryption types during CIFS server creation, the encryption types are renegotiated when a machine account password is reset.</li></ul>



Name	Type	Description
restrict_anonymous	string	<p>Specifies what level of access an anonymous user is granted. An anonymous user (also known as a "null user") can list or enumerate certain types of system information from Windows hosts on the network, including user names and details, account policies, and share names. Access for the anonymous user can be controlled by specifying one of three access restriction settings. The available values are:</p> <ul style="list-style-type: none"> <li>• no_restriction - No access restriction for an anonymous user.</li> <li>• no_enumeration - Enumeration is restricted for an anonymous user.</li> <li>• no_access - All access is restricted for an anonymous user.</li> </ul>
smb_encryption	boolean	Specifies whether encryption is required for incoming CIFS traffic.
smb_signing	boolean	Specifies whether signing is required for incoming CIFS traffic. SMB signing helps to ensure that network traffic between the CIFS server and the client is not compromised.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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.

**Updates both the mandatory and optional parameters of the cifs configuration ensure the cifs server is administratively disabled when renaming the cifs server or modifying the `ad_domain` properties**

#### related ontap commands

- `vserver cifs server modify`
- `vserver cifs server options modify`
- `vserver cifs security modify`
- `vserver cifs server add-netbios-aliases`
- `vserver cifs server remove-netbios-aliases` [# learn more](#)
- `[doc /protocols/cifs/services](#docs-nas-protocols_cifs_services)`

`PATCH /protocols/cifs/services/{svm.uuid}`

Updates both the mandatory and optional parameters of the CIFS configuration. Ensure the CIFS server is administratively disabled when renaming the CIFS server or modifying the `ad_domain` properties.

#### Related ONTAP commands

- `vserver cifs server modify`
- `vserver cifs server options modify`
- `vserver cifs security modify`

- `vserver cifs server add-netbios-aliases`
- `vserver cifs server remove-netbios-aliases`

## Learn more

- [DOC /protocols/cifs/services](#)

## 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
_links	<a href="#">_links</a>	
ad_domain	<a href="#">ad_domain</a>	
comment	string	A descriptive text comment for the CIFS server. SMB clients can see the CIFS server comment when browsing servers on the network. If there is a space in the comment, you must enclose the entire string in quotation marks.
default_unix_user	string	Specifies the UNIX user to which any authenticated CIFS user is mapped to, if the normal user mapping rules fails.
enabled	boolean	Specifies if the CIFS service is administratively enabled.
name	string	The name of the CIFS server.
netbios	<a href="#">cifs_netbios</a>	
security	<a href="#">cifs_service_security</a>	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "ad_domain": {
    "fqdn": "example.com",
    "organizational_unit": "string",
    "password": "string"
  },
  "comment": "This CIFS Server Belongs to CS Department",
  "default_unix_user": "string",
  "name": "CIFS1",
  "netbios": {
    "aliases": [
      "ALIAS_1",
      "ALIAS_2",
      "ALIAS_3"
    ],
    "wins_servers": [
      "10.224.65.20",
      "10.224.65.21"
    ]
  },
  "security": {
    "restrict_anonymous": "string"
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

## Response

Status: 202, Accepted

Name	Type	Description
job	<a href="#">job_link</a>	

#### Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

#### Error

Status: Default, Error

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

ad\_domain

Name	Type	Description
fqdn	string	The fully qualified domain name of the Windows Active Directory to which this CIFS server belongs. A CIFS server appears as a member of Windows server object in the Active Directory store. POST and PATCH only.
organizational_unit	string	Specifies the organizational unit within the Active Directory domain to associate with the CIFS server. POST and PATCH only.
password	string	The account password used to add this CIFS server to the Active Directory. This is not audited.

cifs\_netbios

Name	Type	Description
aliases	array[string]	
enabled	boolean	Specifies whether NetBios name service (NBNS) is enabled for the CIFS. If this service is enabled, the CIFS server will start sending the broadcast for name registration.
wins_servers	array[string]	

cifs\_service\_security

Name	Type	Description
kdc_encryption	boolean	<p>Specifies whether AES-128 and AES-256 encryption is enabled for all Kerberos-based communication with the Active Directory KDC. To take advantage of the strongest security with Kerberos-based communication, AES-256 and AES-128 encryption can be enabled on the CIFS server. Kerberos-related communication for CIFS is used during CIFS server creation on the SVM, as well as during the SMB session setup phase. The CIFS server supports the following encryption types for Kerberos communication:</p> <ul style="list-style-type: none"> <li>• RC4-HMAC</li> <li>• DES</li> <li>• AES When the CIFS server is created, the domain controller creates a computer machine account in Active Directory. After a newly created machine account authenticates, the KDC and the CIFS server negotiates encryption types. At this time, the KDC becomes aware of the encryption capabilities of the particular machine account and uses those capabilities in subsequent communication with the CIFS server. In addition to negotiating encryption types during CIFS server creation, the encryption types are renegotiated when a machine account password is reset.</li> </ul>



Name	Type	Description
restrict_anonymous	string	<p>Specifies what level of access an anonymous user is granted. An anonymous user (also known as a "null user") can list or enumerate certain types of system information from Windows hosts on the network, including user names and details, account policies, and share names. Access for the anonymous user can be controlled by specifying one of three access restriction settings. The available values are:</p> <ul style="list-style-type: none"> <li>• no_restriction - No access restriction for an anonymous user.</li> <li>• no_enumeration - Enumeration is restricted for an anonymous user.</li> <li>• no_access - All access is restricted for an anonymous user.</li> </ul>
smb_encryption	boolean	Specifies whether encryption is required for incoming CIFS traffic.
smb_signing	boolean	Specifies whether signing is required for incoming CIFS traffic. SMB signing helps to ensure that network traffic between the CIFS server and the client is not compromised.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

cifs\_service

Name	Type	Description
_links	<a href="#">_links</a>	
ad_domain	<a href="#">ad_domain</a>	
comment	string	A descriptive text comment for the CIFS server. SMB clients can see the CIFS server comment when browsing servers on the network. If there is a space in the comment, you must enclose the entire string in quotation marks.
default_unix_user	string	Specifies the UNIX user to which any authenticated CIFS user is mapped to, if the normal user mapping rules fails.
enabled	boolean	Specifies if the CIFS service is administratively enabled.
name	string	The name of the CIFS server.
netbios	<a href="#">cifs_netbios</a>	
security	<a href="#">cifs_service_security</a>	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.

#### job\_link

Name	Type	Description
_links	<a href="#">_links</a>	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### 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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