



## **Manage SVMs**

### **ONTAP 9.6 REST API reference**

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# Manage SVMs

## SVM svms endpoint overview

### Managing SVMs

Cluster administrators can manage any SVM bound to the cluster. In addition, SVMs can also be managed by their SVM administrators. The SVM administrator manages the SVM resources, such as volumes, protocols and services, depending on the capabilities assigned by the cluster administrator. SVM administrators cannot create, modify, or delete SVMs. The cluster administrator manages SVM create, modify, or delete operations.

While configuring CIFS, you must also configure IP interfaces and DNS. No other protocol configuration is allowed when configuring NVMe. NFS, FCP, CIFS and iSCSI protocols can be configured together.

SVM administrators might have all or some of the following administration capabilities:

1. Data access protocol configuration Configures data access protocols, such as NFS, CIFS, iSCSI, and Fibre Channel (FC) protocol (Fibre Channel over Ethernet included).
2. Services configuration Configures services such as LDAP, NIS, and DNS.
3. Monitoring SVM Monitors jobs, network connections, network interfaces, and SVM health.

## Retrieve SVMs and SVM properties

GET `/svm/svms`

Retrieves a list of SVMs and individual SVM properties. This includes protocol configurations such as CIFS and NFS, export policies, name service configurations, and network services.

### Important notes

- The SVM object includes a large set of fields and can be expensive to retrieve. Use this API to list the collection of SVMs, and to retrieve only the full details of individual SVMs as needed.
- It is not recommended to create or delete more than five SVMs in parallel.
- REST APIs only expose a data SVM as an SVM.

### Related ONTAP commands

- `vserver show`

### Examples

1. Retrieves a list of SVMs in the cluster sorted by name

```
GET "/api/svm/svms?order_by=name"
```

1. Retrieves a list of SVMs in the cluster that have the NFS protocol enabled

```
GET "/api/svm/svms?nfs.enabled=true"
```

1. Retrieves a list of SVMs in the cluster that have the CIFS protocol enabled

```
GET "/api/svm/svms?cifs.enabled=true"
```

## Learn more

- [DOC /svm/svms](#)

## Parameters

Name	Type	In	Required	Description
nis.enabled	boolean	query	False	Filter by nis.enabled
nis.servers	string	query	False	Filter by nis.servers
nis.domain	string	query	False	Filter by nis.domain
nvme.enabled	boolean	query	False	Filter by nvme.enabled
language	string	query	False	Filter by language
nfs.enabled	boolean	query	False	Filter by nfs.enabled
comment	string	query	False	Filter by comment
aggregates.name	string	query	False	Filter by aggregates.name
aggregates.uuid	string	query	False	Filter by aggregates.uuid
subtype	string	query	False	Filter by subtype
dns.servers	string	query	False	Filter by dns.servers
dns.domains	string	query	False	Filter by dns.domains
fcp.enabled	boolean	query	False	Filter by fcp.enabled

<b>Name</b>	<b>Type</b>	<b>In</b>	<b>Required</b>	<b>Description</b>
iscsi.enabled	boolean	query	False	Filter by iscsi.enabled
name	string	query	False	Filter by name
ipspace.uuid	string	query	False	Filter by ipspace.uuid
ipspace.name	string	query	False	Filter by ipspace.name
ldap.base_dn	string	query	False	Filter by ldap.base_dn
ldap.servers	string	query	False	Filter by ldap.servers
ldap.enabled	boolean	query	False	Filter by ldap.enabled
ldap.bind_dn	string	query	False	Filter by ldap.bind_dn
ldap.ad_domain	string	query	False	Filter by ldap.ad_domain
uuid	string	query	False	Filter by uuid
cifs.name	string	query	False	Filter by cifs.name
cifs.ad_domain.fqdn	string	query	False	Filter by cifs.ad_domain.fqdn
cifs.ad_domain.organizational_unit	string	query	False	Filter by cifs.ad_domain.organizational_unit
cifs.enabled	boolean	query	False	Filter by cifs.enabled
nsswitch.netgroup	string	query	False	Filter by nsswitch.netgroup
nsswitch.group	string	query	False	Filter by nsswitch.group

Name	Type	In	Required	Description
nsswitch.hosts	string	query	False	Filter by nsswitch.hosts
nsswitch.namemap	string	query	False	Filter by nsswitch.namemap
nsswitch.passwd	string	query	False	Filter by nsswitch.passwd
ip_interfaces.ip.address	string	query	False	Filter by ip_interfaces.ip.address
ip_interfaces.name	string	query	False	Filter by ip_interfaces.name
ip_interfaces.uuid	string	query	False	Filter by ip_interfaces.uuid
snapshot_policy.uuid	string	query	False	Filter by snapshot_policy.uuid
snapshot_policy.name	string	query	False	Filter by snapshot_policy.name
state	string	query	False	Filter by state
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.

Name	Type	In	Required	Description
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="#">svm</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "aggregates": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "aggr1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        }
      ],
      "cifs": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "ad_domain": {
          "fqdn": "example.com",
          "organizational_unit": "string",
          "password": "string",
          "user": "string"
        },
        "name": "CIFS1"
      },
      "comment": "string",
      "dns": {
        "_links": {
```



```

    "self": {
      "href": "/api/resourcelink"
    }
  },
  "domains": [
    "example.com",
    "example2.example3.com"
  ],
  "servers": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ]
},
"fcp": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"ip_interfaces": [
  {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7",
      "netmask": "24"
    },
    "location": {
      "broadcast_domain": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "bd1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "home_node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        }
      }
    }
  }
]

```

```

        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
},
"name": "lif1",
"service_policy": "string",
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
],
"ipSPACE": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "exchange",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"iscsi": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"language": "c.utf_8",
"ldap": {
  "ad_domain": "string",
  "base_dn": "string",
  "bind_dn": "string",
  "servers": [
    "string"
  ]
},
"name": "svml",
"nfs": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"nis": {
  "_links": {
    "self": {

```

```

        "href": "/api/resourcelink"
    }
},
"domain": "string",
"servers": [
    "string"
]
},
"nsswitch": {
    "group": [
        "string"
    ],
    "hosts": [
        "string"
    ],
    "namemap": [
        "string"
    ],
    "netgroup": [
        "string"
    ],
    "passwd": [
        "string"
    ]
},
"nvme": {
    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
    }
},
"routes": [
    {
        "destination": {
            "address": "10.10.10.7",
            "family": "string",
            "netmask": "24"
        },
        "gateway": "10.1.1.1"
    }
],
"snapshot_policy": {
    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
    }
}

```

```

    }
  },
  "name": "default",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"state": "running",
"subtype": "string",
"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>	

aggregates

Aggregate

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

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.
organizational_unit	string	Specifies the organizational unit within the Active Directory domain to associate with the CIFS server.

Name	Type	Description
password	string	The account password used to add this CIFS server to the Active Directory. This is not audited. Valid in POST only.
user	string	The user account used to add this CIFS server to the Active Directory. Valid in POST only.

#### cifs

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
<a href="#">ad_domain</a>	<a href="#">ad_domain</a>	
enabled	boolean	Specifies whether or not the CIFS service is administratively enabled.
name	string	The NetBIOS name of the CIFS server.

#### dns

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

Name	Type	Description
domains	array[string]	<p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none"> <li>• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-", or "_".</li> <li>• The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9.</li> <li>• The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9.</li> <li>• The top level domain must contain only the following characters: A through Z, a through z.</li> <li>• The system reserves the following names: "all", "local", and "localhost".</li> </ul>
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.

#### fcp

Name	Type	Description
_links	<a href="#">_links</a>	
enabled	boolean	Enable Fiber Channel Protocol (FCP)? Setting to true creates a service if not already created.

#### ip

##### IP information

Name	Type	Description
address	string	IPv4 or IPv6 address

Name	Type	Description
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0).

broadcast\_domain

Broadcast domain UUID along with a readable name.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Name of the broadcast domain, scoped to its IPspace
uuid	string	Broadcast domain UUID

home\_node

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

location

Home\_node is optional.

Name	Type	Description
broadcast_domain	<a href="#">broadcast_domain</a>	Broadcast domain UUID along with a readable name.
home_node	<a href="#">home_node</a>	

ip\_interface\_svm

Interface parameters. Name and home\_node are optional.

Name	Type	Description
_links	<a href="#">_links</a>	
ip	<a href="#">ip</a>	IP information
location	<a href="#">location</a>	Home_node is optional.



Name	Type	Description
name	string	The name of the interface (optional).
service_policy	string	Built-in service policies for SVMs.
uuid	string	The UUID that uniquely identifies the interface.

#### ipspace

Either the UUID or name may be supplied on input.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	IPspace name
uuid	string	IPspace UUID

#### iscsi

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
enabled	boolean	Enable iSCSI? Setting to true creates a service if not already created.

#### ldap

Name	Type	Description
ad_domain	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST.
base_dn	string	Specifies the default base DN for all searches.

Name	Type	Description
bind_dn	string	Specifies the user that binds to the LDAP servers. SVM API supports anonymous binding. For Simple and SASL LDAP binding, use the LDAP API endpoint.
enabled	boolean	Enable LDAP? Setting to true creates a configuration if not already created.
servers	array[string]	

#### nfs

Name	Type	Description
_links	<a href="#">_links</a>	
enabled	boolean	Enable NFS? Setting to true creates a service if not already created.

#### nis

Name	Type	Description
_links	<a href="#">_links</a>	
domain	string	The NIS domain to which this configuration belongs.
enabled	boolean	Enable NIS? Setting to true creates a configuration if not already created.
servers	array[string]	A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration.

#### nsswitch

##### Name Service Switch Configuration

Name	Type	Description
group	array[string]	Group sources
hosts	array[string]	Host sources

Name	Type	Description
namemap	array[string]	NameMap sources
netgroup	array[string]	NetGroup sources
passwd	array[string]	Password sources

#### nvme

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
enabled	boolean	Enable NVMe? Setting to true creates a service if not already created.

#### ip\_info

##### IP information

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, you must set the netmask length. The default value is 64. Output is always netmask length.

#### network\_route\_for\_svm

Name	Type	Description
destination	<a href="#">ip_info</a>	IP information
gateway	string	The IP address of the gateway router leading to the destination.

#### snapshot\_policy

This is a reference to the Snapshot copy policy.

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

svm

Name	Type	Description
_links	<a href="#">_links</a>	
aggregates	array[ <a href="#">aggregates</a> ]	List of allowed aggregates for SVM volumes. An administrator is allowed to create volumes on these aggregates.
cifs	<a href="#">cifs</a>	
comment	string	Comment
dns	<a href="#">dns</a>	
fcp	<a href="#">fcp</a>	
ip_interfaces	array[ <a href="#">ip_interface_svm</a> ]	IP interfaces for the SVM
ipspace	<a href="#">ipspace</a>	Either the UUID or name may be supplied on input.
iscsi	<a href="#">iscsi</a>	
language	string	Default volume language code. UTF-8 encoded languages are valid in POST or PATCH. Non UTF-8 language encodings are for backward compatibility and are not valid input for POST and PATCH requests.
ldap	<a href="#">ldap</a>	
name	string	The name of the SVM.
nfs	<a href="#">nfs</a>	
nis	<a href="#">nis</a>	
nsswitch	<a href="#">nsswitch</a>	Name Service Switch Configuration
nvme	<a href="#">nvme</a>	

Name	Type	Description
routes	array[ <a href="#">network_route_for_svm</a> ]	Optional array of routes for the SVM
snapshot_policy	<a href="#">snapshot_policy</a>	This is a reference to the Snapshot copy policy.
state	string	SVM State
subtype	string	SVM subtype. The SVM subtype sync_destination is created automatically when an SVM of subtype sync_source is created on the source MetroCluster cluster. A POST request with sync_destination as SVM subtype is invalid.
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.

## Create and provision an SVM

POST /svm/svms

Creates and provisions an SVM. If no IPspace is provided, then the SVM is created on the Default IPspace.

The number of parallel SVMs that can be created should not be greater than 5. When the sixth SVM POST request is issued, the error message "Maximum allowed SVM jobs exceeded. Wait for the existing SVM jobs to complete and try again." will be returned.

## Required properties

- `name` - Name of the SVM to be created.

## Recommended optional properties

- `ipspace.name` or `ipspace.uuid` - IPspace of the SVM
  - `ip_interfaces` - If provided, the following fields are required:
    - `ip_interfaces.name` - Name of the interface
    - `ip_interfaces.ip.address` - IP address
    - `ip_interfaces.ip.netmask` - Netmask length or IP address
    - `ip_interfaces.location.broadcast_domain.uuid` or `ip_interfaces.location.broadcast_domain.name` - Broadcast domain name or UUID belonging to the same IPspace of the SVM.
- `routes` - If provided, the following field is required:
  - `routes.gateway` - Gateway IP address
- `cifs` - If provided, interfaces, routes and DNS must be provided. The following fields are also required:
  - `cifs.name` - Name of the CIFS server to be created for the SVM.
  - `cifs.ad_domain.fqdn` - Fully qualified domain name
  - `cifs.ad_domain.user` - Administrator username
  - `cifs.ad_domain.password` - User password
- `ldap` - If provided, the following fields are required:
  - `ldap.servers` or `ldap.ad_domain` - LDAP server list or Active directory domain
  - `ldap.bind_dn` - Bind DN
  - `ldap.base_dn` - Base DN
- `nis` - If provided, the following fields are required:
  - `nis.servers` - NIS servers
  - `nis.domain` - NIS domain
- `dns` - If provided, the following fields are required:
  - `dns.servers` - Name servers
  - `dns.domains` - Domains

## Default property values

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

- language - *C.UTF-8*
- ipspace.name - *Default*
- snapshot\_policy.name - *Default*
- subtype - *Default* ( *sync-source* if MetroCluster configuration )

## Related ONTAP commands

- vserver create
- vserver add-aggregates
- network interface create
- network route create
- vserver services name-service dns create
- vserver nfs create
- vserver services name-service ldap client create
- vserver cifs create
- vserver services name-service nis-domain create
- vserver iscsi create
- vserver nvme create
- vserver fcp create
- vserver services name-service ns-switch create

## Examples

1. Creates an SVM with default "snapshot\_policy"

```
POST "/api/svm/svms" '{"name":"testVs",
"snapshot_policy":{"name":"default"}}'
```

1. Creates an SVM and configures NFS, ISCSI and FCP

```
POST "/api/svm/svms" '{"name":"testVs", "nfs":{"enabled":"true"},
"fcp":{"enabled":"true"}, "iscsi":{"enabled":"true"}}'
```

1. Creates an SVM and configures NVMe

```
POST "/api/svm/svms" '{"name":"testVs", "nvme":{"enabled":"true"}}'
```

1. Creates an SVM and configures LDAP

```
POST "/api/svm/svms" '{"name":"testVs",
"snapshot_policy":{"name":"default"},
"ldap":{"servers":["10.140.101.1","10.140.101.2"], "ad_domain":"abc.com",
"base_dn":"dc=netapp,dc=com", "bind_dn":"dc=netapp,dc=com"}}'
```

#### 1. Creates an SVM and configures NIS

```
POST "/api/svm/svms" '{"name":"testVs",
"snapshot_policy":{"name":"default"}, "nis":{"enabled":"true",
"domain":"def.com","servers":["10.224.223.130", "10.224.223.131"]}}'
```

#### 1. Creates an SVM and configures DNS

```
POST "/api/svm/svms" '{"name":"testVs",
"snapshot_policy":{"name":"default"},
"dns":{"domains":["abc.com","def.com"], "servers":["10.224.223.130",
"10.224.223.131"]}}'
```

#### 1. Creates an SVM and configures a LIF

```
POST "/api/svm/svms" '{"name":"testVs", "ip_interfaces":
[{"name":"lif1", "ip":{"address":"10.10.10.7", "netmask":
"255.255.255.0"}, "location":{"broadcast_domain":{"name":"bd1"},
"home_node":{"name":"node1"}}, "service_policy": "default-management"]}]'
```

#### 1. Creates an SVM and configures a LIF with IPV6 address

```
POST "/api/svm/svms" '{"name":"testVs", "ip_interfaces":
[{"name":"lif2", "ip":{"address":"fd22:8b1e:b255:202:2a0:98ff:fe01:7d5b",
"netmask":"24"}, "location":{"broadcast_domain":{"name":"bd1"},
"home_node":{"name":"node1"}}, "service_policy": "default-management"]}]'
```

#### 1. Creates an SVM and configures CIFS



```
POST "/api/svm/svms" '{"name":"testVs", "cifs":{"name":"CIFDOC",
"ad_domain":{"fqdn":"abc.def.com", "organizational_unit":"CN=Computers",
"user":"cif_admin", "password":"abc123"}},
"ip_interfaces":[{"name":"lif1", "ip":{"address":"10.10.10.7", "netmask":
"255.255.255.0"}, "location":{"broadcast_domain":{"name":"bd1"},
"home_node":{"name":"node1"}}, "service_policy": "default-
management"}],"routes": [{"destination": {"address": "0.0.0.0", "netmask":
"0"}, "gateway": "10.10.10.7"}], "dns":{"domains":["abc.def.com",
"def.com"], "servers":["10.224.223.130", "10.224.223.131"]}]'
```

## Learn more

- [DOC /svm/svms](#)

## Parameters

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.

## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
aggregates	array[ <a href="#">aggregates</a> ]	List of allowed aggregates for SVM volumes. An administrator is allowed to create volumes on these aggregates.
cifs	<a href="#">cifs</a>	
comment	string	Comment
dns	<a href="#">dns</a>	
fcp	<a href="#">fcp</a>	
ip_interfaces	array[ <a href="#">ip_interface_svm</a> ]	IP interfaces for the SVM
ipspace	<a href="#">ipspace</a>	Either the UUID or name may be supplied on input.
iscsi	<a href="#">iscsi</a>	
language	string	Default volume language code. UTF-8 encoded languages are valid in POST or PATCH. Non UTF-8 language encodings are for backward compatibility and are not valid input for POST and PATCH requests.
ldap	<a href="#">ldap</a>	
name	string	The name of the SVM.
nfs	<a href="#">nfs</a>	
nis	<a href="#">nis</a>	
nsswitch	<a href="#">nsswitch</a>	Name Service Switch Configuration
nvme	<a href="#">nvme</a>	
routes	array[ <a href="#">network_route_for_svm</a> ]	Optional array of routes for the SVM
snapshot_policy	<a href="#">snapshot_policy</a>	This is a reference to the Snapshot copy policy.
state	string	SVM State

<b>Name</b>	<b>Type</b>	<b>Description</b>
subtype	string	SVM subtype. The SVM subtype sync_destination is created automatically when an SVM of subtype sync_source is created on the source MetroCluster cluster. A POST request with sync_destination as SVM subtype is invalid.
uuid	string	The unique identifier of the SVM.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "aggregates": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "aggr1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "cifs": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ad_domain": {
      "fqdn": "example.com",
      "organizational_unit": "string",
      "password": "string",
      "user": "string"
    },
    "name": "CIFS1"
  },
  "comment": "string",
  "dns": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "domains": [
      "example.com",
      "example2.example3.com"
    ],
    "servers": [
      "10.224.65.20",

```

```

    "2001:db08:a0b:12f0::1"
  ]
},
"fcp": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"ip_interfaces": [
  {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7",
      "netmask": "24"
    },
    "location": {
      "broadcast_domain": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "bd1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "home_node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    },
    "name": "lif1",
    "service_policy": "string",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
],

```

```
"ipospace": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "exchange",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"iscsi": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"language": "c.utf_8",
"ldap": {
  "ad_domain": "string",
  "base_dn": "string",
  "bind_dn": "string",
  "servers": [
    "string"
  ]
},
"name": "svml",
"nfs": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"nis": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "domain": "string",
  "servers": [
    "string"
  ]
},
"nsswitch": {
  "group": [
```

```

    "string"
  ],
  "hosts": [
    "string"
  ],
  "namemap": [
    "string"
  ],
  "netgroup": [
    "string"
  ],
  "passwd": [
    "string"
  ]
},
"nvme": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"routes": [
  {
    "destination": {
      "address": "10.10.10.7",
      "family": "string",
      "netmask": "24"
    },
    "gateway": "10.1.1.1"
  }
],
"snapshot_policy": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "default",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"state": "running",
"subtype": "string",
"uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}

```

## Response

Status: 202, Accepted

Name	Type	Description
job	job_link	

## Example response

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

## Error

Status: Default

### ONTAP Error Response Codes

Error codes	Description
2621580	Vserver name, comment and IPspace are allowed for a destination Vserver.
2621634	"sync-source" SVM can only be created in a MetroCluster configuration.
2621657	"sync-destination" SVM can only be created by the system.
13434884	Cannot create an SVM because of incorrect fields.
13434885	Non-UTF8 language(s) not supported.
13434888	IPspace UUID and IPspace Name mismatch.
13434889	Internal Error. Wait and retry.
13434894	Maximum allowed SVM jobs exceeded. Wait and retry.



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

aggregates

Aggregate

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

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.
organizational_unit	string	Specifies the organizational unit within the Active Directory domain to associate with the CIFS server.
password	string	The account password used to add this CIFS server to the Active Directory. This is not audited. Valid in POST only.
user	string	The user account used to add this CIFS server to the Active Directory. Valid in POST only.

cifs

Name	Type	Description
_links	<a href="#">_links</a>	
ad_domain	<a href="#">ad_domain</a>	
enabled	boolean	Specifies whether or not the CIFS service is administratively enabled.
name	string	The NetBIOS name of the CIFS server.

#### dns

Name	Type	Description
_links	<a href="#">_links</a>	
domains	array[string]	<p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none"> <li>• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-" or "_".</li> <li>• The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9.</li> <li>• The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9.</li> <li>• The top level domain must contain only the following characters: A through Z, a through z.</li> <li>• The system reserves the following names: "all", "local", and "localhost".</li> </ul>
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.

#### fcp

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
enabled	boolean	Enable Fiber Channel Protocol (FCP)? Setting to true creates a service if not already created.

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0).

broadcast\_domain

Broadcast domain UUID along with a readable name.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	Name of the broadcast domain, scoped to its IPspace
uuid	string	Broadcast domain UUID

home\_node

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

location

Home\_node is optional.

Name	Type	Description
broadcast_domain	<a href="#">broadcast_domain</a>	Broadcast domain UUID along with a readable name.
home_node	<a href="#">home_node</a>	

## ip\_interface\_svm

Interface parameters. Name and home\_node are optional.

Name	Type	Description
_links	<a href="#">_links</a>	
ip	<a href="#">ip</a>	IP information
location	<a href="#">location</a>	Home_node is optional.
name	string	The name of the interface (optional).
service_policy	string	Built-in service policies for SVMs.
uuid	string	The UUID that uniquely identifies the interface.

## ipspace

Either the UUID or name may be supplied on input.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	IPspace name
uuid	string	IPspace UUID

## iscsi

Name	Type	Description
_links	<a href="#">_links</a>	
enabled	boolean	Enable iSCSI? Setting to true creates a service if not already created.

## ldap

Name	Type	Description
ad_domain	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST.
base_dn	string	Specifies the default base DN for all searches.
bind_dn	string	Specifies the user that binds to the LDAP servers. SVM API supports anonymous binding. For Simple and SASL LDAP binding, use the LDAP API endpoint.
enabled	boolean	Enable LDAP? Setting to true creates a configuration if not already created.
servers	array[string]	

#### nfs

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
enabled	boolean	Enable NFS? Setting to true creates a service if not already created.

#### nis

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
domain	string	The NIS domain to which this configuration belongs.
enabled	boolean	Enable NIS? Setting to true creates a configuration if not already created.
servers	array[string]	A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration.

## nsswitch

### Name Service Switch Configuration

Name	Type	Description
group	array[string]	Group sources
hosts	array[string]	Host sources
namemap	array[string]	NameMap sources
netgroup	array[string]	NetGroup sources
passwd	array[string]	Password sources

## nvme

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
enabled	boolean	Enable NVMe? Setting to true creates a service if not already created.

## ip\_info

### IP information

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, you must set the netmask length. The default value is 64. Output is always netmask length.

## network\_route\_for\_svm

Name	Type	Description
destination	<a href="#">ip_info</a>	IP information

Name	Type	Description
gateway	string	The IP address of the gateway router leading to the destination.

snapshot\_policy

This is a reference to the Snapshot copy policy.

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

svm

Name	Type	Description
_links	<a href="#">_links</a>	
aggregates	array[ <a href="#">aggregates</a> ]	List of allowed aggregates for SVM volumes. An administrator is allowed to create volumes on these aggregates.
cifs	<a href="#">cifs</a>	
comment	string	Comment
dns	<a href="#">dns</a>	
fcp	<a href="#">fcp</a>	
ip_interfaces	array[ <a href="#">ip_interface_svm</a> ]	IP interfaces for the SVM
ipspace	<a href="#">ipspace</a>	Either the UUID or name may be supplied on input.
iscsi	<a href="#">iscsi</a>	
language	string	Default volume language code. UTF-8 encoded languages are valid in POST or PATCH. Non UTF-8 language encodings are for backward compatibility and are not valid input for POST and PATCH requests.
ldap	<a href="#">ldap</a>	
name	string	The name of the SVM.



Name	Type	Description
nfs	nfs	
nis	nis	
nsswitch	nsswitch	Name Service Switch Configuration
nvme	nvme	
routes	array[network_route_for_svm]	Optional array of routes for the SVM
snapshot_policy	snapshot_policy	This is a reference to the Snapshot copy policy.
state	string	SVM State
subtype	string	SVM subtype. The SVM subtype sync_destination is created automatically when an SVM of subtype sync_source is created on the source MetroCluster cluster. A POST request with sync_destination as SVM subtype is invalid.
uuid	string	The unique identifier of the SVM.

#### job\_link

Name	Type	Description
_links	_links	
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.

## Delete an SVM

DELETE /svm/svms/{uuid}

Deletes an SVM. As a prerequisite, SVM objects must be deleted first. SnapMirror relations must be deleted and data volumes must be offline and deleted. The number of parallel SVMs that can be deleted should not be greater than 5. When the sixth SVM DELETE request is issued, the error message "Maximum allowed SVM jobs exceeded. Wait for the existing SVM jobs to complete and try again." will be returned.

### Related ONTAP commands

- `vserver delete`

### Example

Deletes an individual SVM in the cluster.

```
DELETE "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
```

### Learn more

- [DOC /svm/svms](#)

### Parameters

Name	Type	In	Required	Description
uuid	string	path	True	Filter by UUID

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.

## 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

### ONTAP Error Response Codes

Error codes	Description
13434894	Maximum allowed SVM jobs exceeded. Wait and retry.

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

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.

## Retrieve SVM properties

GET /svm/svms/{uuid}

Retrieves the properties for an individual SVM. This includes protocol configurations such as CIFS and NFS, export policies, name service configurations, and network services.

## Important note

- The SVM object includes a large set of fields and can be expensive to retrieve.
- REST APIs only expose a data SVM as an SVM.

## Example

Retrieves an individual SVM in the cluster

```
GET "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
```

## Learn more

- [DOC /svm/svms](#)

## Parameters

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

## Response

```
Status: 200, Ok
```

Name	Type	Description
_links	<a href="#">_links</a>	
aggregates	array[ <a href="#">aggregates</a> ]	List of allowed aggregates for SVM volumes. An administrator is allowed to create volumes on these aggregates.
cifs	<a href="#">cifs</a>	
comment	string	Comment
dns	<a href="#">dns</a>	
fcp	<a href="#">fcp</a>	

Name	Type	Description
ip_interfaces	array[ip_interface_svm]	IP interfaces for the SVM
ipspace	ipspace	Either the UUID or name may be supplied on input.
iscsi	iscsi	
language	string	Default volume language code. UTF-8 encoded languages are valid in POST or PATCH. Non UTF-8 language encodings are for backward compatibility and are not valid input for POST and PATCH requests.
ldap	ldap	
name	string	The name of the SVM.
nfs	nfs	
nis	nis	
nsswitch	nsswitch	Name Service Switch Configuration
nvme	nvme	
routes	array[network_route_for_svm]	Optional array of routes for the SVM
snapshot_policy	snapshot_policy	This is a reference to the Snapshot copy policy.
state	string	SVM State
subtype	string	SVM subtype. The SVM subtype sync_destination is created automatically when an SVM of subtype sync_source is created on the source MetroCluster cluster. A POST request with sync_destination as SVM subtype is invalid.
uuid	string	The unique identifier of the SVM.



## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "aggregates": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "aggr1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "cifs": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ad_domain": {
      "fqdn": "example.com",
      "organizational_unit": "string",
      "password": "string",
      "user": "string"
    },
    "name": "CIFS1"
  },
  "comment": "string",
  "dns": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "domains": [
      "example.com",
      "example2.example3.com"
    ],
    "servers": [
      "10.224.65.20",

```

```

    "2001:db08:a0b:12f0::1"
  ]
},
"fcplink": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"ip_interfaces": [
  {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7",
      "netmask": "24"
    },
    "location": {
      "broadcast_domain": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "bd1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "home_node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    },
    "name": "lif1",
    "service_policy": "string",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
],

```

```

"ipospace": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "exchange",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"iscsi": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"language": "c.utf_8",
"ldap": {
  "ad_domain": "string",
  "base_dn": "string",
  "bind_dn": "string",
  "servers": [
    "string"
  ]
},
"name": "svml",
"nfs": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"nis": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "domain": "string",
  "servers": [
    "string"
  ]
},
"nsswitch": {
  "group": [

```

```

    "string"
  ],
  "hosts": [
    "string"
  ],
  "namemap": [
    "string"
  ],
  "netgroup": [
    "string"
  ],
  "passwd": [
    "string"
  ]
},
"nvme": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"routes": [
  {
    "destination": {
      "address": "10.10.10.7",
      "family": "string",
      "netmask": "24"
    },
    "gateway": "10.1.1.1"
  }
],
"snapshot_policy": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "default",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"state": "running",
"subtype": "string",
"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
self	<a href="#">href</a>	

aggregates

Aggregate

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

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.
organizational_unit	string	Specifies the organizational unit within the Active Directory domain to associate with the CIFS server.
password	string	The account password used to add this CIFS server to the Active Directory. This is not audited. Valid in POST only.
user	string	The user account used to add this CIFS server to the Active Directory. Valid in POST only.

cifs

Name	Type	Description
_links	<a href="#">_links</a>	
ad_domain	<a href="#">ad_domain</a>	
enabled	boolean	Specifies whether or not the CIFS service is administratively enabled.
name	string	The NetBIOS name of the CIFS server.

#### dns

Name	Type	Description
_links	<a href="#">_links</a>	
domains	array[string]	<p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none"> <li>• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-" or "_".</li> <li>• The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9.</li> <li>• The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9.</li> <li>• The top level domain must contain only the following characters: A through Z, a through z.</li> <li>• The system reserves the following names: "all", "local", and "localhost".</li> </ul>
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.

#### fcp

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
enabled	boolean	Enable Fiber Channel Protocol (FCP)? Setting to true creates a service if not already created.

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0).

broadcast\_domain

Broadcast domain UUID along with a readable name.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	Name of the broadcast domain, scoped to its IPspace
uuid	string	Broadcast domain UUID

home\_node

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

location

Home\_node is optional.

Name	Type	Description
broadcast_domain	<a href="#">broadcast_domain</a>	Broadcast domain UUID along with a readable name.
home_node	<a href="#">home_node</a>	



## ip\_interface\_svm

Interface parameters. Name and home\_node are optional.

Name	Type	Description
_links	<a href="#">_links</a>	
ip	<a href="#">ip</a>	IP information
location	<a href="#">location</a>	Home_node is optional.
name	string	The name of the interface (optional).
service_policy	string	Built-in service policies for SVMs.
uuid	string	The UUID that uniquely identifies the interface.

## ipspace

Either the UUID or name may be supplied on input.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	IPspace name
uuid	string	IPspace UUID

## iscsi

Name	Type	Description
_links	<a href="#">_links</a>	
enabled	boolean	Enable iSCSI? Setting to true creates a service if not already created.

## ldap

Name	Type	Description
ad_domain	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST.
base_dn	string	Specifies the default base DN for all searches.
bind_dn	string	Specifies the user that binds to the LDAP servers. SVM API supports anonymous binding. For Simple and SASL LDAP binding, use the LDAP API endpoint.
enabled	boolean	Enable LDAP? Setting to true creates a configuration if not already created.
servers	array[string]	

#### nfs

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
enabled	boolean	Enable NFS? Setting to true creates a service if not already created.

#### nis

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
domain	string	The NIS domain to which this configuration belongs.
enabled	boolean	Enable NIS? Setting to true creates a configuration if not already created.
servers	array[string]	A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration.

## nsswitch

### Name Service Switch Configuration

Name	Type	Description
group	array[string]	Group sources
hosts	array[string]	Host sources
namemap	array[string]	NameMap sources
netgroup	array[string]	NetGroup sources
passwd	array[string]	Password sources

## nvme

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
enabled	boolean	Enable NVMe? Setting to true creates a service if not already created.

## ip\_info

### IP information

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, you must set the netmask length. The default value is 64. Output is always netmask length.

## network\_route\_for\_svm

Name	Type	Description
destination	<a href="#">ip_info</a>	IP information

Name	Type	Description
gateway	string	The IP address of the gateway router leading to the destination.

snapshot\_policy

This is a reference to the Snapshot copy policy.

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

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.

## Update SVM properties

PATCH /svm/svms/{uuid}

Updates one or more of the following properties of an individual SVM: SVM name, SVM default volume language code, SVM comment, and SVM state.

### Related ONTAP commands

- `vserver modify`

- `vserver rename`
- `vserver start`
- `vserver stop`

## Examples

1. Stops an SVM and updates the "comment" field for an individual SVM

```
PATCH "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
'{"state":"stopped", "comment":"This SVM is stopped."}'
```

1. Starts an SVM and updates the "comment" field for an individual SVM

```
PATCH "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
'{"state":"running", "comment":"This SVM is running."}'
```

1. Updates the "language" field for an individual SVM

```
PATCH "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
'{"language":"en.UTF-8"}'
```

1. Updates the "name" field for an SVM or renames the SVM

```
PATCH "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
'{"name":"svm_new"}'
```

1. Updates the aggregates for an individual SVM

```
PATCH "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
'{"aggregates":{"name":["aggr1","aggr2","aggr3"]}}'
```

1. Updates the Snapshot copy policy for an individual SVM

```
PATCH "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
'{"snapshot_policy":{"name":"custom1"}}'
```

## Learn more

- [DOC /svm/svms](#)

## Parameters

Name	Type	In	Required	Description
uuid	string	path	True	Filter by UUID
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.

## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
aggregates	array[ <a href="#">aggregates</a> ]	List of allowed aggregates for SVM volumes. An administrator is allowed to create volumes on these aggregates.
cifs	<a href="#">cifs</a>	
comment	string	Comment
dns	<a href="#">dns</a>	
fcp	<a href="#">fcp</a>	

Name	Type	Description
ip_interfaces	array[ip_interface_svm]	IP interfaces for the SVM
ipspace	ipspace	Either the UUID or name may be supplied on input.
iscsi	iscsi	
language	string	Default volume language code. UTF-8 encoded languages are valid in POST or PATCH. Non UTF-8 language encodings are for backward compatibility and are not valid input for POST and PATCH requests.
ldap	ldap	
name	string	The name of the SVM.
nfs	nfs	
nis	nis	
nsswitch	nsswitch	Name Service Switch Configuration
nvme	nvme	
routes	array[network_route_for_svm]	Optional array of routes for the SVM
snapshot_policy	snapshot_policy	This is a reference to the Snapshot copy policy.
state	string	SVM State
subtype	string	SVM subtype. The SVM subtype sync_destination is created automatically when an SVM of subtype sync_source is created on the source MetroCluster cluster. A POST request with sync_destination as SVM subtype is invalid.
uuid	string	The unique identifier of the SVM.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "aggregates": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "aggr1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "cifs": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ad_domain": {
      "fqdn": "example.com",
      "organizational_unit": "string",
      "password": "string",
      "user": "string"
    },
    "name": "CIFS1"
  },
  "comment": "string",
  "dns": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "domains": [
      "example.com",
      "example2.example3.com"
    ],
    "servers": [
      "10.224.65.20",

```



```

    "2001:db08:a0b:12f0::1"
  ]
},
"fcf": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"ip_interfaces": [
  {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7",
      "netmask": "24"
    },
    "location": {
      "broadcast_domain": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "bd1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "home_node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    },
    "name": "lif1",
    "service_policy": "string",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
],

```

```

"ipospace": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "exchange",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"iscsi": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"language": "c.utf_8",
"ldap": {
  "ad_domain": "string",
  "base_dn": "string",
  "bind_dn": "string",
  "servers": [
    "string"
  ]
},
"name": "svml",
"nfs": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"nis": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "domain": "string",
  "servers": [
    "string"
  ]
},
"nsswitch": {
  "group": [

```

```

    "string"
  ],
  "hosts": [
    "string"
  ],
  "namemap": [
    "string"
  ],
  "netgroup": [
    "string"
  ],
  "passwd": [
    "string"
  ]
},
"nvme": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"routes": [
  {
    "destination": {
      "address": "10.10.10.7",
      "family": "string",
      "netmask": "24"
    },
    "gateway": "10.1.1.1"
  }
],
"snapshot_policy": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "default",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"state": "running",
"subtype": "string",
"uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}

```

## Response

Status: 202, Accepted

Name	Type	Description
job	job_link	

## Example response

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

## Error

Status: Default

### ONTAP Error Response Codes

Error codes	Description
13434880	Failed to modify SVM parameters.
13434881	Failed to rename SVM.
13434883	SVM parameters except name modified successfully.
13434885	Non-UTF8 language(s) not supported.
13434886	Invalid Snapshot copy policy.

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

aggregates

Aggregate

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

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.
organizational_unit	string	Specifies the organizational unit within the Active Directory domain to associate with the CIFS server.
password	string	The account password used to add this CIFS server to the Active Directory. This is not audited. Valid in POST only.
user	string	The user account used to add this CIFS server to the Active Directory. Valid in POST only.

cifs

Name	Type	Description
_links	<a href="#">_links</a>	
ad_domain	<a href="#">ad_domain</a>	
enabled	boolean	Specifies whether or not the CIFS service is administratively enabled.
name	string	The NetBIOS name of the CIFS server.

#### dns

Name	Type	Description
_links	<a href="#">_links</a>	
domains	array[string]	<p>A list of DNS domains. Domain names have the following requirements:</p> <ul style="list-style-type: none"> <li>• The name must contain only the following characters: A through Z, a through z, 0 through 9, ".", "-" or "_".</li> <li>• The first character of each label, delimited by ".", must be one of the following characters: A through Z or a through z or 0 through 9.</li> <li>• The last character of each label, delimited by ".", must be one of the following characters: A through Z, a through z, or 0 through 9.</li> <li>• The top level domain must contain only the following characters: A through Z, a through z.</li> <li>• The system reserves the following names: "all", "local", and "localhost".</li> </ul>
servers	array[string]	The list of IP addresses of the DNS servers. Addresses can be either IPv4 or IPv6 addresses.

#### fcp

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
enabled	boolean	Enable Fiber Channel Protocol (FCP)? Setting to true creates a service if not already created.

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0).

broadcast\_domain

Broadcast domain UUID along with a readable name.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	Name of the broadcast domain, scoped to its IPspace
uuid	string	Broadcast domain UUID

home\_node

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

location

Home\_node is optional.

Name	Type	Description
broadcast_domain	<a href="#">broadcast_domain</a>	Broadcast domain UUID along with a readable name.
home_node	<a href="#">home_node</a>	



## ip\_interface\_svm

Interface parameters. Name and home\_node are optional.

Name	Type	Description
_links	<a href="#">_links</a>	
ip	<a href="#">ip</a>	IP information
location	<a href="#">location</a>	Home_node is optional.
name	string	The name of the interface (optional).
service_policy	string	Built-in service policies for SVMs.
uuid	string	The UUID that uniquely identifies the interface.

## ipspace

Either the UUID or name may be supplied on input.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	IPspace name
uuid	string	IPspace UUID

## iscsi

Name	Type	Description
_links	<a href="#">_links</a>	
enabled	boolean	Enable iSCSI? Setting to true creates a service if not already created.

## ldap

Name	Type	Description
ad_domain	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST.
base_dn	string	Specifies the default base DN for all searches.
bind_dn	string	Specifies the user that binds to the LDAP servers. SVM API supports anonymous binding. For Simple and SASL LDAP binding, use the LDAP API endpoint.
enabled	boolean	Enable LDAP? Setting to true creates a configuration if not already created.
servers	array[string]	

#### nfs

Name	Type	Description
_links	<a href="#">_links</a>	
enabled	boolean	Enable NFS? Setting to true creates a service if not already created.

#### nis

Name	Type	Description
_links	<a href="#">_links</a>	
domain	string	The NIS domain to which this configuration belongs.
enabled	boolean	Enable NIS? Setting to true creates a configuration if not already created.
servers	array[string]	A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration.

## nsswitch

### Name Service Switch Configuration

Name	Type	Description
group	array[string]	Group sources
hosts	array[string]	Host sources
namemap	array[string]	NameMap sources
netgroup	array[string]	NetGroup sources
passwd	array[string]	Password sources

## nvme

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
enabled	boolean	Enable NVMe? Setting to true creates a service if not already created.

## ip\_info

### IP information

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, you must set the netmask length. The default value is 64. Output is always netmask length.

## network\_route\_for\_svm

Name	Type	Description
destination	<a href="#">ip_info</a>	IP information

Name	Type	Description
gateway	string	The IP address of the gateway router leading to the destination.

snapshot\_policy

This is a reference to the Snapshot copy policy.

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

svm

Name	Type	Description
_links	<a href="#">_links</a>	
aggregates	array[ <a href="#">aggregates</a> ]	List of allowed aggregates for SVM volumes. An administrator is allowed to create volumes on these aggregates.
cifs	<a href="#">cifs</a>	
comment	string	Comment
dns	<a href="#">dns</a>	
fcp	<a href="#">fcp</a>	
ip_interfaces	array[ <a href="#">ip_interface_svm</a> ]	IP interfaces for the SVM
ipspace	<a href="#">ipspace</a>	Either the UUID or name may be supplied on input.
iscsi	<a href="#">iscsi</a>	
language	string	Default volume language code. UTF-8 encoded languages are valid in POST or PATCH. Non UTF-8 language encodings are for backward compatibility and are not valid input for POST and PATCH requests.
ldap	<a href="#">ldap</a>	
name	string	The name of the SVM.

Name	Type	Description
nfs	nfs	
nis	nis	
nsswitch	nsswitch	Name Service Switch Configuration
nvme	nvme	
routes	array[network_route_for_svm]	Optional array of routes for the SVM
snapshot_policy	snapshot_policy	This is a reference to the Snapshot copy policy.
state	string	SVM State
subtype	string	SVM subtype. The SVM subtype sync_destination is created automatically when an SVM of subtype sync_source is created on the source MetroCluster cluster. A POST request with sync_destination as SVM subtype is invalid.
uuid	string	The unique identifier of the SVM.

#### job\_link

Name	Type	Description
_links	_links	
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

<b>Name</b>	<b>Type</b>	<b>Description</b>
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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