



# Manage SVMs

## ONTAP 9.10.1 REST API Documentation

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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.
4. Updating the TLS certificate for this SVM.

## Retrieve SVMs and SVM properties

```
GET /svm/svms
```

**Introduced In:** 9.6

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.

### Expensive properties

There is an added cost to retrieving values for these properties. They are not included by default in GET results and must be explicitly requested using the `fields` query parameter. See [Requesting specific fields](#) to learn more.

- `snapmirror.*`

### 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"
```

1. Retrieves a list of SVMs in the cluster that have the S3 protocol enabled

```
GET "/api/svm/svms?s3.enabled=true"
```

- 5 Retrieves a list of SVMs in the cluster that have the FCP protocol allowed

```
GET "/api/svm/svms?fcp.allowed=true"
```

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

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

1. Retrieves a list of SVMs in the cluster where the NDMP protocol is specified as allowed

```
GET "/api/svm/svms?ndmp.allowed=true"
```

## Learn more

- [DOC /svm/svms](#)

## Parameters

Name	Type	In	Required	Description
nis.enabled	boolean	query	False	Filter by nis.enabled

Name	Type	In	Required	Description
nis.servers	string	query	False	Filter by nis.servers
nis.domain	string	query	False	Filter by nis.domain
nvme.allowed	boolean	query	False	Filter by nvme.allowed  • Introduced in: 9.9
nvme.enabled	boolean	query	False	Filter by nvme.enabled
language	string	query	False	Filter by language
nfs.allowed	boolean	query	False	Filter by nfs.allowed  • Introduced in: 9.9
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.allowed	boolean	query	False	Filter by fcp.allowed  • Introduced in: 9.9
fcp.enabled	boolean	query	False	Filter by fcp.enabled

Name	Type	In	Required	Description
iscsi.allowed	boolean	query	False	Filter by iscsi.allowed  • Introduced in: 9.9
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.orga nizational_unit	string	query	False	Filter by cifs.ad_domain.orga nizational_unit

Name	Type	In	Required	Description
cifs.allowed	boolean	query	False	Filter by cifs.allowed  • Introduced in: 9.9
cifs.enabled	boolean	query	False	Filter by cifs.enabled
s3.name	string	query	False	Filter by s3.name  • Introduced in: 9.7
s3.enabled	boolean	query	False	Filter by s3.enabled  • Introduced in: 9.7
ndmp.allowed	boolean	query	False	Filter by ndmp.allowed  • Introduced in: 9.10
nsswitch.netgroup	string	query	False	Filter by nsswitch.netgroup
nsswitch.group	string	query	False	Filter by nsswitch.group
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
qos_policy.name	string	query	False	Filter qos_policy.name  • Introduced in: 9.9

Name	Type	In	Required	Description
qos_policy.uuid	string	query	False	Filter qos_policy.uuid  • Introduced in: 9.9
max_volumes	string	query	False	Filter max_volumes  • Introduced in: 9.9
fc_interfaces.name	string	query	False	Filter by fc_interfaces.name  • Introduced in: 9.7
fc_interfaces.data_protocol	string	query	False	Filter by fc_interfaces.data_protocol  • Introduced in: 9.7
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
certificate.uuid	string	query	False	Filter by certificate.uuid  • Introduced in: 9.7
anti_ransomware_default_volume_state	string	query	False	Filter by anti_ransomware_default_volume_state  • Introduced in: 9.10



Name	Type	In	Required	Description
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. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
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"
    },
    "anti_ransomware_default_volume_state": "disabled",
    "certificate": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cert1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "cifs": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ad_domain": {
        "fqdn": "example.com"
      },
      "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"
]
},
"fc_interfaces": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
},
"data_protocol": "fcp",
"location": {
  "port": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
  },
  "name": "0a",
  "node": {
    "name": "node1"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
},
"name": "lif1",
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"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": "default-management",
      "services": {
      },
      "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": {
  "servers": {
  }
},
"name": "svml",
"nfs": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"nis": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "servers": {
  }
},
"nsswitch": {
  "group": {
  },
  "hosts": {
  },
  "namemap": {
  },
  "netgroup": {
  },
  "passwd": {
  }
},
"nvme": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
}

```

```

    }
  },
  "qos_policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "max_throughput_iops": 10000,
    "max_throughput_mbps": 500,
    "min_throughput_iops": 2000,
    "min_throughput_mbps": 500,
    "name": "performance",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "routes": {
    "destination": {
      "address": "10.10.10.7",
      "family": "ipv4",
      "netmask": "24"
    },
    "gateway": "10.1.1.1"
  },
  "s3": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "certificate": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cert1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "name": "s3-server-1"
  },
  "snapmirror": {
    "protected_volumes_count": 0
  },
  "snapshot_policy": {
    "_links": {

```

```
    "self": {
      "href": "/api/resourcelink"
    },
    "name": "default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "state": "running",
  "subtype": "default",
  "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
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	
uuid	string	

certificate

Support for this field will be removed in a future release. Please use `/svm/svms/{svm.uuid}/web` for this field. Certificate for incoming TLS connection requests.

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

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>	
allowed	boolean	If this is set to true, an SVM administrator can manage the CIFS service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the CIFS service.
name	string	The NetBIOS name of the CIFS server.

#### dns

Name	Type	Description
_links	<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.

#### node

The node on which the FC port is located.

Name	Type	Description
name	string	The name of the node on which the FC port is located.

#### fc\_port\_reference

An FC port is the physical port of an FC adapter on a cluster node that can be connected to an FC network.

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

Name	Type	Description
name	string	The name of the FC port.
node	<a href="#">node</a>	The node on which the FC port is located.
uuid	string	The unique identifier of the FC port.

#### location

The location of the Fibre Channel interface is defined by the location of its port.

Name	Type	Description
port	<a href="#">fc_port_reference</a>	An FC port is the physical port of an FC adapter on a cluster node that can be connected to an FC network.

#### fc\_interface\_svm

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
data_protocol	string	The data protocol for which the Fibre Channel interface is configured.
location	<a href="#">location</a>	The location of the Fibre Channel interface is defined by the location of its port.
name	string	The name of the Fibre Channel interface.
uuid	string	The unique identifier of the Fibre Channel interface.

#### fcv

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

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the FCP service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the FCP service.

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.
services	array[string]	The services associated with the interface.
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>	

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the iSCSI service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the iSCSI service.

#### 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]	

#### ndmp

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the NDMP service. If it is false, only the cluster administrator can manage the service.

#### nfs

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
allowed	boolean	If this is set to true, an SVM administrator can manage the NFS service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the NFS service.

#### 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>	
allowed	boolean	If this is set to true, an SVM administrator can manage the NVMe service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the NVMe service.

#### qos\_policy

This optionally specifies which QoS policy group to apply to the Vserver. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
max_throughput_iops	integer	Specifies the maximum throughput in IOPS, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.
max_throughput_mbps	integer	Specifies the maximum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.
min_throughput_iops	integer	Specifies the minimum throughput in IOPS, 0 means none. Setting "min_throughput" is supported on AFF platforms only, unless FabricPool tiering policies are set. This is mutually exclusive with name and UUID during POST and PATCH.
min_throughput_mbps	integer	Specifies the minimum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.



Name	Type	Description
name	string	The QoS policy group name. This is mutually exclusive with UUID and other QoS attributes during POST and PATCH.
uuid	string	The QoS policy group UUID. This is mutually exclusive with name and other QoS attributes during POST and PATCH.

## 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, the default value is 64 with a valid range of 1 to 127. 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.

## certificate

Specifies the certificate that will be used for creating HTTPS connections to the S3 server.

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

## s3

Name	Type	Description
_links	<a href="#">_links</a>	
certificate	<a href="#">certificate</a>	Specifies the certificate that will be used for creating HTTPS connections to the S3 server.
enabled	boolean	Specifies whether or not to enable S3. Setting this value to true creates a service if one is not yet created.
is_http_enabled	boolean	Specifies whether HTTP is enabled on the S3 server. By default, HTTP is disabled on the S3 server.
is_https_enabled	boolean	Specifies whether HTTPS is enabled on the S3 server. By default, HTTPS is enabled on the S3 server.
name	string	Specifies the name of the S3 server. A server name length can range from 1 to 253 characters and can only contain the following combination of characters 0-9, A-Z, a-z, ".", and "-".
port	integer	Specifies the HTTP listener port for the S3 server. By default, HTTP is enabled on port 80.
secure_port	integer	Specifies the HTTPS listener port for the S3 server. By default, HTTPS is enabled on port 443.

#### snapmirror

Specifies attributes for SVM DR protection.

Name	Type	Description
is_protected	boolean	Specifies whether the SVM is a SnapMirror source SVM, using SnapMirror to protect its data.
protected_volumes_count	integer	Specifies the number of SVM DR protected volumes in the SVM.

## 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.
aggregates_delegated	boolean	This property is true when the administrator has delegated the aggregates for the SVM volumes.
anti_ransomware_default_volume_state	string	Specifies the default Anti-ransomware state of the volumes in the SVM. Default "anti_ransomware_default_volume_state" property is disabled for POST operation. If this value is "disabled", Anti-ransomware protection is disabled by default on the new volumes that are created in the SVM. If this value is "dry_run", Anti-ransomware protection is in learning mode by default on the new volumes that are created in the SVM. When the Anti-ransomware license is not present, this property is ignored and volumes will be created with the "disabled" state.
certificate	<a href="#">certificate</a>	Support for this field will be removed in a future release. Please use <code>/svm/svms/{svm.uuid}/web</code> for this field. Certificate for incoming TLS connection requests.
cifs	<a href="#">cifs</a>	

Name	Type	Description
comment	string	Comment
dns	<a href="#">dns</a>	
fc_interfaces	array[ <a href="#">fc_interface_svm</a> ]	FC Interface for the SVM
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>	
max_volumes	string	This property is used by cluster administrator to specify the limit on maximum number of volumes allowed in the SVM. The value can be either the string "unlimited" or a number.
name	string	The name of the SVM.
ndmp	<a href="#">ndmp</a>	
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
qos_policy	<a href="#">qos_policy</a>	This optionally specifies which QoS policy group to apply to the Vserver. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated.
routes	array[ <a href="#">network_route_for_svm</a> ]	Optional array of routes for the SVM
s3	<a href="#">s3</a>	
snapmirror	<a href="#">snapmirror</a>	Specifies attributes for SVM DR protection.
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

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

## Create and provision an SVM

POST /svm/svms

**Introduced In:** 9.6

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 must not be greater than five.
- If a sixth SVM POST request is issued, the following error message is generated: "Maximum allowed SVM jobs exceeded. Wait for the existing SVM jobs to complete and try again."

### 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
- `fc_interfaces` - If provided, the following fields are required:
  - `fc_interfaces.name` - Fibre Channel interface name
  - `fc_interfaces.data_protocol` - Fibre Channel interface data protocol
  - `fc_interfaces.location.port.uuid` or `fc_interfaces.location.port.name` and `fc_interfaces.location.port.node.name` - Either port UUID or port name and node name together must be provided.
- `s3` - If provided, the following field should also be specified:
  - `<code>s3.name</code>` - Name of the S3 server. If `<code>s3.name</code>` is not specified while `<code>s3.enabled</code>` is set to 'true', the S3 server will be created with the default name `<svm.name>_S3Server</svm.name>`

## 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 )
- `anti_ransomware_default_volume_state` - *disabled*

## 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
- vserver object-store-server create
- vserver add-protocols
- vserver remove-protocols

## 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"]}}'
```

## 1. Creates an SVM and configures an S3 server

```
POST "/api/svm/svms" '{"name":"svm5", "s3":{"name":"s3-server-1",
"enabled":true}}'
```

## 1. Creates an SVM and disallows NVMe service for the SVM

```
POST "/api/svm/svms" '{"name":"testVs", "nvme":{"allowed":"false"}}'
```

1. Creates an SVM, allows and configures the NFS service for the SVM

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

1. Create an SVM and set the max volume limit for the SVM

```
POST "/api/svm/svms/" '{"name":"testVs", "max_volumes":"200"}'
```

1. Creates an SVM and disallows the NDMP service for the SVM.

```
POST "/api/svm/svms" '{"name":"testVs", "ndmp":{"allowed":"false"}}'
```

## Learn more

- [DOC /svm/svms](#)

## Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. <ul style="list-style-type: none"><li>• Default value:</li></ul>

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>

## 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.
aggregates_delegated	boolean	This property is true when the administrator has delegated the aggregates for the SVM volumes.

Name	Type	Description
anti_ransomware_default_volume_state	string	Specifies the default Anti-ransomware state of the volumes in the SVM. Default "anti_ransomware_default_volume_state" property is disabled for POST operation. If this value is "disabled", Anti-ransomware protection is disabled by default on the new volumes that are created in the SVM. If this value is "dry_run", Anti-ransomware protection is in learning mode by default on the new volumes that are created in the SVM. When the Anti-ransomware license is not present, this property is ignored and volumes will be created with the "disabled" state.
certificate	<a href="#">certificate</a>	Support for this field will be removed in a future release. Please use /svm/svms/{svm.uuid}/web for this field. Certificate for incoming TLS connection requests.
cifs	<a href="#">cifs</a>	
comment	string	Comment
dns	<a href="#">dns</a>	
fc_interfaces	array[ <a href="#">fc_interface_svm</a> ]	FC Interface for the SVM
fcip	<a href="#">fcip</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	Type	Description
max_volumes	string	This property is used by cluster administrator to specify the limit on maximum number of volumes allowed in the SVM. The value can be either the string "unlimited" or a number.
name	string	The name of the SVM.
ndmp	<a href="#">ndmp</a>	
nfs	<a href="#">nfs</a>	
nis	<a href="#">nis</a>	
nsswitch	<a href="#">nsswitch</a>	Name service switch configuration
nvme	<a href="#">nvme</a>	
qos_policy	<a href="#">qos_policy</a>	This optionally specifies which QoS policy group to apply to the Vserver. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated.
routes	array[ <a href="#">network_route_for_svm</a> ]	Optional array of routes for the SVM
s3	<a href="#">s3</a>	
snapmirror	<a href="#">snapmirror</a>	Specifies attributes for SVM DR protection.
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.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "aggregates": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "aggr1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "anti_ransomware_default_volume_state": "disabled",
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "cert1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "cifs": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ad_domain": {
      "fqdn": "example.com"
    },
    "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"
  ]
},
"fc_interfaces": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "data_protocol": "fcp",
  "location": {
    "port": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "0a",
      "node": {
        "name": "node1"
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  },
  "name": "lif1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"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": "default-management",
  "services": {
  },
  "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": {
  "servers": {
  }
},
"name": "svml",
"nfs": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"nis": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "servers": {
  }
},
"nsswitch": {
  "group": {
  },
  "hosts": {
  },
  "namemap": {
  },
  "netgroup": {
  },
  "passwd": {
  }
},
"nvme": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"qos_policy": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
```

```

    "max_throughput_iops": 10000,
    "max_throughput_mbps": 500,
    "min_throughput_iops": 2000,
    "min_throughput_mbps": 500,
    "name": "performance",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "routes": {
    "destination": {
      "address": "10.10.10.7",
      "family": "ipv4",
      "netmask": "24"
    },
    "gateway": "10.1.1.1"
  },
  "s3": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "certificate": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cert1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "name": "s3-server-1"
  },
  "snapmirror": {
    "protected_volumes_count": 0
  },
  "snapshot_policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "state": "running",
  "subtype": "default",

```

```
"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	Cannot specify options other than SVM name, comment and ipspace for a Vserver that is being configured as the destination for SVM DR.
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.

Error codes	Description
13434888	IPspace UUID and IPspace name mismatch.
13434889	Internal Error. Wait and retry.
13434894	Maximum allowed SVM jobs exceeded. Wait for the existing SVM jobs to complete and try again.
13434908	Invalid SVM name. The name is already in use by another SVM, IPspace or cluster.
13434909	Internal Error. Failed to identify the aggregate to host SVM root volume.
13434910	Internal Error. Failed to allocate new SVM ID.
13434911	Invalid SVM name. Maximum supported length is 41 if SVM is of type \"sync-source\", otherwise 47.
13434912	Failed to find IPspace.
13434913	Internal error: Failed to check if an SVM create operation is in progress. Contact technical support for assistance.
13434914	Request to create the root volume of the SVM failed because there is not enough space in specified aggregate.
13434915	Failed to unlock the SVM because SVM create or delete job is in progress. Wait a few minutes, and then try the command again.
13434916	SVM is in the process of being created. Wait a few minutes, and then try the command again.
13434917	SVM creation successful.
13434918	IPspace name not provided for creating an SVM.

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	

certificate

Support for this field will be removed in a future release. Please use `/svm/svms/{svm.uuid}/web` for this field. Certificate for incoming TLS connection requests.

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

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.

Name	Type	Description
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>	
allowed	boolean	If this is set to true, an SVM administrator can manage the CIFS service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the CIFS service.
name	string	The NetBIOS name of the CIFS server.

#### dns

Name	Type	Description
_links	<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.

#### node

The node on which the FC port is located.

Name	Type	Description
name	string	The name of the node on which the FC port is located.

#### fc\_port\_reference

An FC port is the physical port of an FC adapter on a cluster node that can be connected to an FC network.

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



Name	Type	Description
name	string	The name of the FC port.
node	<a href="#">node</a>	The node on which the FC port is located.
uuid	string	The unique identifier of the FC port.

#### location

The location of the Fibre Channel interface is defined by the location of its port.

Name	Type	Description
port	<a href="#">fc_port_reference</a>	An FC port is the physical port of an FC adapter on a cluster node that can be connected to an FC network.

#### fc\_interface\_svm

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
data_protocol	string	The data protocol for which the Fibre Channel interface is configured.
location	<a href="#">location</a>	The location of the Fibre Channel interface is defined by the location of its port.
name	string	The name of the Fibre Channel interface.
uuid	string	The unique identifier of the Fibre Channel interface.

#### fcv

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

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the FCP service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the FCP service.

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.
services	array[string]	The services associated with the interface.
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>	

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the iSCSI service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the iSCSI service.

#### 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]	

#### ndmp

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the NDMP service. If it is false, only the cluster administrator can manage the service.

#### nfs

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
allowed	boolean	If this is set to true, an SVM administrator can manage the NFS service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the NFS service.

#### 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>	
allowed	boolean	If this is set to true, an SVM administrator can manage the NVMe service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the NVMe service.

#### qos\_policy

This optionally specifies which QoS policy group to apply to the Vserver. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
max_throughput_iops	integer	Specifies the maximum throughput in IOPS, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.
max_throughput_mbps	integer	Specifies the maximum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.
min_throughput_iops	integer	Specifies the minimum throughput in IOPS, 0 means none. Setting "min_throughput" is supported on AFF platforms only, unless FabricPool tiering policies are set. This is mutually exclusive with name and UUID during POST and PATCH.
min_throughput_mbps	integer	Specifies the minimum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.

Name	Type	Description
name	string	The QoS policy group name. This is mutually exclusive with UUID and other QoS attributes during POST and PATCH.
uuid	string	The QoS policy group UUID. This is mutually exclusive with name and other QoS attributes during POST and PATCH.

## 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, the default value is 64 with a valid range of 1 to 127. 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.

## certificate

Specifies the certificate that will be used for creating HTTPS connections to the S3 server.

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

## s3

Name	Type	Description
_links	<a href="#">_links</a>	
certificate	<a href="#">certificate</a>	Specifies the certificate that will be used for creating HTTPS connections to the S3 server.
enabled	boolean	Specifies whether or not to enable S3. Setting this value to true creates a service if one is not yet created.
is_http_enabled	boolean	Specifies whether HTTP is enabled on the S3 server. By default, HTTP is disabled on the S3 server.
is_https_enabled	boolean	Specifies whether HTTPS is enabled on the S3 server. By default, HTTPS is enabled on the S3 server.
name	string	Specifies the name of the S3 server. A server name length can range from 1 to 253 characters and can only contain the following combination of characters 0-9, A-Z, a-z, ".", and "-".
port	integer	Specifies the HTTP listener port for the S3 server. By default, HTTP is enabled on port 80.
secure_port	integer	Specifies the HTTPS listener port for the S3 server. By default, HTTPS is enabled on port 443.

#### snapmirror

Specifies attributes for SVM DR protection.

Name	Type	Description
is_protected	boolean	Specifies whether the SVM is a SnapMirror source SVM, using SnapMirror to protect its data.
protected_volumes_count	integer	Specifies the number of SVM DR protected volumes in the SVM.



## 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.
aggregates_delegated	boolean	This property is true when the administrator has delegated the aggregates for the SVM volumes.
anti_ransomware_default_volume_state	string	Specifies the default Anti-ransomware state of the volumes in the SVM. Default "anti_ransomware_default_volume_state" property is disabled for POST operation. If this value is "disabled", Anti-ransomware protection is disabled by default on the new volumes that are created in the SVM. If this value is "dry_run", Anti-ransomware protection is in learning mode by default on the new volumes that are created in the SVM. When the Anti-ransomware license is not present, this property is ignored and volumes will be created with the "disabled" state.
certificate	<a href="#">certificate</a>	Support for this field will be removed in a future release. Please use <code>/svm/svms/{svm.uuid}/web</code> for this field. Certificate for incoming TLS connection requests.
cifs	<a href="#">cifs</a>	

Name	Type	Description
comment	string	Comment
dns	<a href="#">dns</a>	
fc_interfaces	array[ <a href="#">fc_interface_svm</a> ]	FC Interface for the SVM
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>	
max_volumes	string	This property is used by cluster administrator to specify the limit on maximum number of volumes allowed in the SVM. The value can be either the string "unlimited" or a number.
name	string	The name of the SVM.
ndmp	<a href="#">ndmp</a>	
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
qos_policy	<a href="#">qos_policy</a>	This optionally specifies which QoS policy group to apply to the Vserver. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated.
routes	array[ <a href="#">network_route_for_svm</a> ]	Optional array of routes for the SVM
s3	<a href="#">s3</a>	
snapmirror	<a href="#">snapmirror</a>	Specifies attributes for SVM DR protection.
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.

#### job\_link

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

Name	Type	Description
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}

**Introduced In:** 9.6

Deletes an SVM. As a prerequisite, SVM objects must be deleted first. SnapMirror relationships must be deleted and data volumes must be offline and deleted.

- The number of parallel SVMs that can be created must not be greater than five.
- If a sixth SVM POST request is issued, the following error message is generated: "Maximum allowed SVM jobs exceeded. Wait for the existing SVM jobs to complete and try again."

### Related ONTAP commands

- `vserver delete`

### Example

Deleting 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
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"><li>• Default value: 1</li><li>• Max value: 120</li><li>• Min value: 0</li></ul>

## 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}

**Introduced In:** 9.6

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 notes

- 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.

## Expensive properties

There is an added cost to retrieving values for these properties. They are not included by default in GET results and must be explicitly requested using the `fields` query parameter. See [Requesting specific fields](#) to learn more.

- `snapmirror.*`

## Example

Retrieving an individual SVM in the cluster

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

## 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
<code>_links</code>	<code><a href="#">_links</a></code>	



Name	Type	Description
aggregates	array[ <a href="#">aggregates</a> ]	List of allowed aggregates for SVM volumes. An administrator is allowed to create volumes on these aggregates.
aggregates_delegated	boolean	This property is true when the administrator has delegated the aggregates for the SVM volumes.
anti_ransomware_default_volume_state	string	Specifies the default Anti-ransomware state of the volumes in the SVM. Default "anti_ransomware_default_volume_state" property is disabled for POST operation. If this value is "disabled", Anti-ransomware protection is disabled by default on the new volumes that are created in the SVM. If this value is "dry_run", Anti-ransomware protection is in learning mode by default on the new volumes that are created in the SVM. When the Anti-ransomware license is not present, this property is ignored and volumes will be created with the "disabled" state.
certificate	<a href="#">certificate</a>	Support for this field will be removed in a future release. Please use /svm/svms/{svm.uuid}/web for this field. Certificate for incoming TLS connection requests.
cifs	<a href="#">cifs</a>	
comment	string	Comment
dns	<a href="#">dns</a>	
fc_interfaces	array[ <a href="#">fc_interface_svm</a> ]	FC Interface for the SVM
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>	

Name	Type	Description
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	
max_volumes	string	This property is used by cluster administrator to specify the limit on maximum number of volumes allowed in the SVM. The value can be either the string "unlimited" or a number.
name	string	The name of the SVM.
ndmp	ndmp	
nfs	nfs	
nis	nis	
nsswitch	nsswitch	Name service switch configuration
nvme	nvme	
qos_policy	qos_policy	This optionally specifies which QoS policy group to apply to the Vserver. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated.
routes	array[network_route_for_svm]	Optional array of routes for the SVM
s3	s3	
snapmirror	snapmirror	Specifies attributes for SVM DR protection.
snapshot_policy	snapshot_policy	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 response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "aggregates": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "aggr1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "anti_ransomware_default_volume_state": "disabled",
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "cert1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "cifs": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ad_domain": {
      "fqdn": "example.com"
    },
    "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"
  ]
},
"fc_interfaces": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "data_protocol": "fcp",
  "location": {
    "port": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "0a",
      "node": {
        "name": "node1"
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  },
  "name": "lif1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"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": "default-management",
  "services": {
  },
  "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": {
  "servers": {
  }
},
"name": "svml",
"nfs": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"nis": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "servers": {
  }
},
"nsswitch": {
  "group": {
  },
  "hosts": {
  },
  "namemap": {
  },
  "netgroup": {
  },
  "passwd": {
  }
},
"nvme": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"qos_policy": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
```

```
"max_throughput_iops": 10000,
"max_throughput_mbps": 500,
"min_throughput_iops": 2000,
"min_throughput_mbps": 500,
"name": "performance",
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"routes": {
  "destination": {
    "address": "10.10.10.7",
    "family": "ipv4",
    "netmask": "24"
  },
  "gateway": "10.1.1.1"
},
"s3": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "cert1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "name": "s3-server-1"
},
"snapmirror": {
  "protected_volumes_count": 0
},
"snapshot_policy": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "default",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"state": "running",
"subtype": "default",
```



```
"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	

certificate

Support for this field will be removed in a future release. Please use `/svm/svms/{svm.uuid}/web` for this field. Certificate for incoming TLS connection requests.

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

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.

Name	Type	Description
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>	
allowed	boolean	If this is set to true, an SVM administrator can manage the CIFS service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the CIFS service.
name	string	The NetBIOS name of the CIFS server.

#### dns

Name	Type	Description
_links	<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.

#### node

The node on which the FC port is located.

Name	Type	Description
name	string	The name of the node on which the FC port is located.

#### fc\_port\_reference

An FC port is the physical port of an FC adapter on a cluster node that can be connected to an FC network.

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

Name	Type	Description
name	string	The name of the FC port.
node	<a href="#">node</a>	The node on which the FC port is located.
uuid	string	The unique identifier of the FC port.

#### location

The location of the Fibre Channel interface is defined by the location of its port.

Name	Type	Description
port	<a href="#">fc_port_reference</a>	An FC port is the physical port of an FC adapter on a cluster node that can be connected to an FC network.

#### fc\_interface\_svm

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
data_protocol	string	The data protocol for which the Fibre Channel interface is configured.
location	<a href="#">location</a>	The location of the Fibre Channel interface is defined by the location of its port.
name	string	The name of the Fibre Channel interface.
uuid	string	The unique identifier of the Fibre Channel interface.

#### fcv

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

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the FCP service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the FCP service.

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.
services	array[string]	The services associated with the interface.
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>	

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the iSCSI service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the iSCSI service.

#### 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]	

#### ndmp

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the NDMP service. If it is false, only the cluster administrator can manage the service.

#### nfs



Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
allowed	boolean	If this is set to true, an SVM administrator can manage the NFS service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the NFS service.

#### 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>	
allowed	boolean	If this is set to true, an SVM administrator can manage the NVMe service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the NVMe service.

#### qos\_policy

This optionally specifies which QoS policy group to apply to the Vserver. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
max_throughput_iops	integer	Specifies the maximum throughput in IOPS, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.
max_throughput_mbps	integer	Specifies the maximum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.
min_throughput_iops	integer	Specifies the minimum throughput in IOPS, 0 means none. Setting "min_throughput" is supported on AFF platforms only, unless FabricPool tiering policies are set. This is mutually exclusive with name and UUID during POST and PATCH.
min_throughput_mbps	integer	Specifies the minimum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.

Name	Type	Description
name	string	The QoS policy group name. This is mutually exclusive with UUID and other QoS attributes during POST and PATCH.
uuid	string	The QoS policy group UUID. This is mutually exclusive with name and other QoS attributes during POST and PATCH.

## 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, the default value is 64 with a valid range of 1 to 127. 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.

## certificate

Specifies the certificate that will be used for creating HTTPS connections to the S3 server.

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

## s3

Name	Type	Description
_links	<a href="#">_links</a>	
certificate	<a href="#">certificate</a>	Specifies the certificate that will be used for creating HTTPS connections to the S3 server.
enabled	boolean	Specifies whether or not to enable S3. Setting this value to true creates a service if one is not yet created.
is_http_enabled	boolean	Specifies whether HTTP is enabled on the S3 server. By default, HTTP is disabled on the S3 server.
is_https_enabled	boolean	Specifies whether HTTPS is enabled on the S3 server. By default, HTTPS is enabled on the S3 server.
name	string	Specifies the name of the S3 server. A server name length can range from 1 to 253 characters and can only contain the following combination of characters 0-9, A-Z, a-z, ".", and "-".
port	integer	Specifies the HTTP listener port for the S3 server. By default, HTTP is enabled on port 80.
secure_port	integer	Specifies the HTTPS listener port for the S3 server. By default, HTTPS is enabled on port 443.

#### snapmirror

Specifies attributes for SVM DR protection.

Name	Type	Description
is_protected	boolean	Specifies whether the SVM is a SnapMirror source SVM, using SnapMirror to protect its data.
protected_volumes_count	integer	Specifies the number of SVM DR protected volumes in the SVM.

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}

**Introduced In:** 9.6

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`

- security ssl modify
- vserver add-protocols
- vserver remove-protocols

## 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"}}'
```

1. Updates the TLS certificate for an individual SVM

```
PATCH "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
'{"certificate":{"uuid":"1cd8a442-86d1-11e0-ae1c-123478563412"}}'
```

1. Updates the QoS policy for the SVM

```
PATCH "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
'{"qos_policy_group":{"name":"qpolicy1"}}'
```

1. Allows NFS protocol which was previously disallowed for the SVM

```
PATCH "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
'{"nfs":{"allowed":"true"}}'
```

1. Updates the max volume limit for the SVM

```
PATCH "/api/svm/svms/f16f0935-5281-11e8-b94d-005056b46485"
'{"max_volumes":"200"}'
```

## 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	<p>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.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>

## 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.
aggregates_delegated	boolean	This property is true when the administrator has delegated the aggregates for the SVM volumes.



Name	Type	Description
anti_ransomware_default_volume_state	string	Specifies the default Anti-ransomware state of the volumes in the SVM. Default "anti_ransomware_default_volume_state" property is disabled for POST operation. If this value is "disabled", Anti-ransomware protection is disabled by default on the new volumes that are created in the SVM. If this value is "dry_run", Anti-ransomware protection is in learning mode by default on the new volumes that are created in the SVM. When the Anti-ransomware license is not present, this property is ignored and volumes will be created with the "disabled" state.
certificate	<a href="#">certificate</a>	Support for this field will be removed in a future release. Please use /svm/svms/{svm.uuid}/web for this field. Certificate for incoming TLS connection requests.
cifs	<a href="#">cifs</a>	
comment	string	Comment
dns	<a href="#">dns</a>	
fc_interfaces	array[ <a href="#">fc_interface_svm</a> ]	FC Interface for the SVM
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	Type	Description
max_volumes	string	This property is used by cluster administrator to specify the limit on maximum number of volumes allowed in the SVM. The value can be either the string "unlimited" or a number.
name	string	The name of the SVM.
ndmp	<a href="#">ndmp</a>	
nfs	<a href="#">nfs</a>	
nis	<a href="#">nis</a>	
nsswitch	<a href="#">nsswitch</a>	Name service switch configuration
nvme	<a href="#">nvme</a>	
qos_policy	<a href="#">qos_policy</a>	This optionally specifies which QoS policy group to apply to the Vserver. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated.
routes	array[ <a href="#">network_route_for_svm</a> ]	Optional array of routes for the SVM
s3	<a href="#">s3</a>	
snapmirror	<a href="#">snapmirror</a>	Specifies attributes for SVM DR protection.
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.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "aggregates": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "aggr1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "anti_ransomware_default_volume_state": "disabled",
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "cert1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "cifs": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ad_domain": {
      "fqdn": "example.com"
    },
    "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"
  ]
},
"fc_interfaces": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "data_protocol": "fcp",
  "location": {
    "port": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "0a",
      "node": {
        "name": "node1"
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  },
  "name": "lif1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"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": "default-management",
  "services": {
  },
  "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": {
  "servers": {
  }
},
"name": "svml",
"nfs": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"nis": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "servers": {
  }
},
"nsswitch": {
  "group": {
  },
  "hosts": {
  },
  "namemap": {
  },
  "netgroup": {
  },
  "passwd": {
  }
},
"nvme": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"qos_policy": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},

```

```

    "max_throughput_iops": 10000,
    "max_throughput_mbps": 500,
    "min_throughput_iops": 2000,
    "min_throughput_mbps": 500,
    "name": "performance",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "routes": {
    "destination": {
      "address": "10.10.10.7",
      "family": "ipv4",
      "netmask": "24"
    },
    "gateway": "10.1.1.1"
  },
  "s3": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "certificate": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cert1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "name": "s3-server-1"
  },
  "snapmirror": {
    "protected_volumes_count": 0
  },
  "snapshot_policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "state": "running",
  "subtype": "default",

```

```
"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

## 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.
13434902	Modification of NSSwitch parameters failed for the SVM.



Error codes	Description
13434906	Operation not supported for an SVM of type sync-destination.
12451843	Certificate does not exist.
13434908	Invalid SVM name. The name is already in use by another SVM, IPspace or cluster.
13434916	SVM is in the process of being created. Wait a few minutes, and then try the command again.
13434915	Failed to unlock the SVM because SVM create or delete job is in progress. Wait a few minutes, and then try the command again.
13434911	Invalid SVM name. Maximum supported length is 41 if SVM is of type \"sync-source\", otherwise 47.

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	

certificate

Support for this field will be removed in a future release. Please use `/svm/svms/{svm.uuid}/web` for this field. Certificate for incoming TLS connection requests.

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

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.

Name	Type	Description
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>	
allowed	boolean	If this is set to true, an SVM administrator can manage the CIFS service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the CIFS service.
name	string	The NetBIOS name of the CIFS server.

#### dns

Name	Type	Description
_links	<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.

#### node

The node on which the FC port is located.

Name	Type	Description
name	string	The name of the node on which the FC port is located.

#### fc\_port\_reference

An FC port is the physical port of an FC adapter on a cluster node that can be connected to an FC network.

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

Name	Type	Description
name	string	The name of the FC port.
node	<a href="#">node</a>	The node on which the FC port is located.
uuid	string	The unique identifier of the FC port.

#### location

The location of the Fibre Channel interface is defined by the location of its port.

Name	Type	Description
port	<a href="#">fc_port_reference</a>	An FC port is the physical port of an FC adapter on a cluster node that can be connected to an FC network.

#### fc\_interface\_svm

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
data_protocol	string	The data protocol for which the Fibre Channel interface is configured.
location	<a href="#">location</a>	The location of the Fibre Channel interface is defined by the location of its port.
name	string	The name of the Fibre Channel interface.
uuid	string	The unique identifier of the Fibre Channel interface.

#### fcv

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

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the FCP service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the FCP service.

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.
services	array[string]	The services associated with the interface.
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>	

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the iSCSI service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the iSCSI service.

#### 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]	

#### ndmp

Name	Type	Description
allowed	boolean	If this is set to true, an SVM administrator can manage the NDMP service. If it is false, only the cluster administrator can manage the service.

#### nfs



Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
allowed	boolean	If this is set to true, an SVM administrator can manage the NFS service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the NFS service.

#### 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>	
allowed	boolean	If this is set to true, an SVM administrator can manage the NVMe service. If it is false, only the cluster administrator can manage the service.
enabled	boolean	If allowed, setting to true enables the NVMe service.

#### qos\_policy

This optionally specifies which QoS policy group to apply to the Vserver. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
max_throughput_iops	integer	Specifies the maximum throughput in IOPS, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.
max_throughput_mbps	integer	Specifies the maximum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.
min_throughput_iops	integer	Specifies the minimum throughput in IOPS, 0 means none. Setting "min_throughput" is supported on AFF platforms only, unless FabricPool tiering policies are set. This is mutually exclusive with name and UUID during POST and PATCH.
min_throughput_mbps	integer	Specifies the minimum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH.

Name	Type	Description
name	string	The QoS policy group name. This is mutually exclusive with UUID and other QoS attributes during POST and PATCH.
uuid	string	The QoS policy group UUID. This is mutually exclusive with name and other QoS attributes during POST and PATCH.

## 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, the default value is 64 with a valid range of 1 to 127. 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.

## certificate

Specifies the certificate that will be used for creating HTTPS connections to the S3 server.

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

## s3

Name	Type	Description
_links	<a href="#">_links</a>	
certificate	<a href="#">certificate</a>	Specifies the certificate that will be used for creating HTTPS connections to the S3 server.
enabled	boolean	Specifies whether or not to enable S3. Setting this value to true creates a service if one is not yet created.
is_http_enabled	boolean	Specifies whether HTTP is enabled on the S3 server. By default, HTTP is disabled on the S3 server.
is_https_enabled	boolean	Specifies whether HTTPS is enabled on the S3 server. By default, HTTPS is enabled on the S3 server.
name	string	Specifies the name of the S3 server. A server name length can range from 1 to 253 characters and can only contain the following combination of characters 0-9, A-Z, a-z, ".", and "-".
port	integer	Specifies the HTTP listener port for the S3 server. By default, HTTP is enabled on port 80.
secure_port	integer	Specifies the HTTPS listener port for the S3 server. By default, HTTPS is enabled on port 443.

#### snapmirror

Specifies attributes for SVM DR protection.

Name	Type	Description
is_protected	boolean	Specifies whether the SVM is a SnapMirror source SVM, using SnapMirror to protect its data.
protected_volumes_count	integer	Specifies the number of SVM DR protected volumes in the SVM.

## 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.
aggregates_delegated	boolean	This property is true when the administrator has delegated the aggregates for the SVM volumes.
anti_ransomware_default_volume_state	string	Specifies the default Anti-ransomware state of the volumes in the SVM. Default "anti_ransomware_default_volume_state" property is disabled for POST operation. If this value is "disabled", Anti-ransomware protection is disabled by default on the new volumes that are created in the SVM. If this value is "dry_run", Anti-ransomware protection is in learning mode by default on the new volumes that are created in the SVM. When the Anti-ransomware license is not present, this property is ignored and volumes will be created with the "disabled" state.
certificate	<a href="#">certificate</a>	Support for this field will be removed in a future release. Please use <code>/svm/svms/{svm.uuid}/web</code> for this field. Certificate for incoming TLS connection requests.
cifs	<a href="#">cifs</a>	

Name	Type	Description
comment	string	Comment
dns	<a href="#">dns</a>	
fc_interfaces	array[ <a href="#">fc_interface_svm</a> ]	FC Interface for the SVM
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>	
max_volumes	string	This property is used by cluster administrator to specify the limit on maximum number of volumes allowed in the SVM. The value can be either the string "unlimited" or a number.
name	string	The name of the SVM.
ndmp	<a href="#">ndmp</a>	
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
qos_policy	<a href="#">qos_policy</a>	This optionally specifies which QoS policy group to apply to the Vserver. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated.
routes	array[ <a href="#">network_route_for_svm</a> ]	Optional array of routes for the SVM
s3	<a href="#">s3</a>	
snapmirror	<a href="#">snapmirror</a>	Specifies attributes for SVM DR protection.
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.

#### job\_link

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

Name	Type	Description
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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