



# **Manage SVMs**

## REST API reference

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# Manage SVMs

## SVM svms endpoint overview

### Managing SVMs

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

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

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

1. Data access protocol configuration Configures data access protocols, such as NFS, CIFS, iSCSI, and Fibre Channel (FC) protocol (Fibre Channel over Ethernet included).
2. Services configuration Configures services such as LDAP, NIS, and DNS.
3. Monitoring SVM Monitors jobs, network connections, network interfaces, and SVM health.
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?fcg.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<br><br>• 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<br><br>• 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<br><br>• 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<br><br>• 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<br>nizational_unit | string  | query | False    | Filter by cifs.ad_domain.orga<br>nizational_unit    |

| Name              | Type    | In    | Required | Description   |
|-------------------|---------|-------|----------|---|
| cifs.allowed      | boolean | query | False    | Filter by cifs.allowed<br><br>• Introduced in: 9.9  |
| cifs.enabled      | boolean | query | False    | Filter by cifs.enabled                              |
| s3.name           | string  | query | False    | Filter by s3.name<br><br>• Introduced in: 9.7       |
| s3.enabled        | boolean | query | False    | Filter by s3.enabled<br><br>• Introduced in: 9.7    |
| ndmp.allowed      | boolean | query | False    | Filter by ndmp.allowed<br><br>• 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<br><br>• Introduced in: 9.9  |



| Name                                 | Type   | In    | Required | Description   |
|--------------------------------------|--------|-------|----------|---|
| qos_policy.uuid                      | string | query | False    | Filter qos_policy.uuid<br><br>• Introduced in: 9.9                          |
| max_volumes                          | string | query | False    | Filter max_volumes<br><br>• Introduced in: 9.9                              |
| fc_interfaces.name                   | string | query | False    | Filter by fc_interfaces.name<br><br>• Introduced in: 9.7                    |
| fc_interfaces.data_protocol          | string | query | False    | Filter by fc_interfaces.data_protocol<br><br>• 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<br><br>• Introduced in: 9.7                      |
| anti_ransomware_default_volume_state | string | query | False    | Filter by anti_ransomware_default_volume_state<br><br>• 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.<br><br>• Default value: 1  |
| return_timeout | integer       | query | False    | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.<br><br>• Default value: 1<br>• Max value: 120<br>• Min value: 0 |
| order_by       | array[string] | query | False    | Order results by specified fields and optional [asc  |

## Response

Status: 200, Ok

| Name        | Type                         | Description       |
|-------------|------------------------------|-------------------|
| _links      | <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": "string",
      "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",
        "organizational_unit": "string"
    },
    "name": "CIFS1"
},
"comment": "string",
"dns": {
    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
    },
    "domains": [
        "example.com",
        "example2.example3.com"
    ],
    "servers": [
        "10.224.65.20",
        "2001:db08:a0b:12f0::1"
    ]
},
"fc_interfaces": [
    {
        "_links": {
            "self": {
                "href": "/api/resourcelink"
            }
        },
        "data_protocol": "string",
        "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"
    },
    "name": "lif1",
    "services": [
      "data_nfs"
    ],
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
],
"ipspace": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "exchange",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"iscsi": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"language": "c.utf_8",
"ldap": {
  "ad_domain": "string",
  "base_dn": "string",
  "bind_dn": "string",
  "servers": [
    "string"
  ]
},
"max_volumes": "string",
"name": "svm1",
"nfs": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"nis": {

```

```

    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "domain": "string",
    "servers": [
      "string"
    ]
  },
  "nsswitch": {
    "group": [
      "string"
    ],
    "hosts": [
      "string"
    ],
    "namemap": [
      "string"
    ],
    "netgroup": [
      "string"
    ],
    "passwd": [
      "string"
    ]
  },
  "nvme": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "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"
  }
}

```

```

    },
    "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": "string",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
]
}

```

## Error

Status: Default, Error

| Name  | Type  | Description |
|-------|-------|-------------|
| error | error |             |

### Example error

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

### Definitions



## See Definitions

href

| Name | Type   | Description |
|------|--------|-------------|
| href | string |             |

\_links

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

\_links

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

aggregates

Aggregate

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

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

#### 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 |
|--------|------------------------|-------------|
| _links | <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  |
|---------------|------------------------|--|
| _links        | <a href="#">_links</a> |  |
| data_protocol | string                 | The data protocol for which the Fibre Channel interface is configured. |
| name          | string                 | The name of the Fibre Channel interface.                               |
| uuid          | string                 | The unique identifier of the Fibre Channel interface.                  |

#### fcp

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

| Name    | Type    | Description  |
|---------|---------|--|
| enabled | boolean | If allowed, setting to true enables the FCP service. |

ip

IP information

| Name    | Type   | Description          |
|---------|--------|----------------------|
| address | string | IPv4 or IPv6 address |

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

nsswitch

Name service switch configuration

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

nvme

| Name    | Type                   | Description  |
|---------|------------------------|--|
| _links  | <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                   | 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 |

| Name    | Type   | Description   |
|---------|--------|---|
| 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      |
|--------|------------------------|------------------|
| _links | <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.             |

| Name             | Type    | Description  |
|------------------|---------|--|
| 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> |             |

| 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.  |

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

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

#### error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

#### error

| Name      | Type                                     | Description                                 |
|-----------|--|---|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Create and provision an SVM

POST /svm/svms

**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' is not specified while </code>s3.enabled`` 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"},  
"fcg":{"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    | <p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"><li>• Default value:</li></ul>  |
| 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  |
|--------------------------------------|---|--|
| 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. |
| 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            | <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>                           |  |
| 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.   |
| 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

```
{
  "aggregates": [
    {
      "name": "aggr1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "anti_ransomware_default_volume_state": "string",
  "cifs": {
    "ad_domain": {
      "fqdn": "example.com",
      "organizational_unit": "string",
      "password": "string",
      "user": "string"
    },
    "name": "CIFS1"
  },
  "comment": "string",
  "dns": {
    "domains": [
      "example.com",
      "example2.example3.com"
    ],
    "servers": [
      "10.224.65.20",
      "2001:db08:a0b:12f0::1"
    ]
  },
  "fc_interfaces": [
    {
      "data_protocol": "string",
      "location": {
        "port": {
          "name": "0a",
          "node": {
            "name": "node1"
          }
        },
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    },
    {
      "name": "lif1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
}
```

```

"ip_interfaces": [
  {
    "ip": {
      "address": "10.10.10.7",
      "netmask": "24"
    },
    "location": {
      "broadcast_domain": {
        "name": "bd1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "home_node": {
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    },
    "name": "lif1",
    "service_policy": "string",
    "services": [
      "data_nfs"
    ],
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
],
"ipspace": {
  "name": "exchange",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"language": "c.utf_8",
"ldap": {
  "ad_domain": "string",
  "base_dn": "string",
  "bind_dn": "string",
  "servers": [
    "string"
  ]
},
"max_volumes": "string",
"name": "svml",
"nis": {
  "domain": "string",
  "servers": [
    "string"
  ]
},
"nsswitch": {

```

```

    "group": [
        "string"
    ],
    "hosts": [
        "string"
    ],
    "namemap": [
        "string"
    ],
    "netgroup": [
        "string"
    ],
    "passwd": [
        "string"
    ]
},
"routes": [
    {
        "destination": {
            "address": "10.10.10.7",
            "netmask": "24"
        },
        "gateway": "10.1.1.1"
    }
],
"s3": {
    "certificate": {
        "name": "cert1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "name": "s3-server-1"
},
"snapmirror": {
    "protected_volumes_count": 0
},
"snapshot_policy": {
    "name": "default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"subtype": "string",
"uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}

```



## Response

Status: 202, Accepted

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

### Example response

```
{
  "job": {
    "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.   |
| 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.   |

| Error codes | Description   |
|-------------|---|
| 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.  |

## Definitions

## See Definitions

href

| Name | Type   | Description |
|------|--------|-------------|
| href | string |             |

\_links

aggregates

Aggregate

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

| Name | Type   | Description  |
|------|--------|--|
| user | string | The user account used to add this CIFS server to the Active Directory. Valid in POST only. |

#### cifs

| Name      | Type                      | Description  |
|-----------|---------------------------|--|
| 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  |
|---------|---------------|--|
| 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              |
|------|--------|--------------------------|
| name | string | The name of the FC port. |

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

fcp

| 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   |
|------|--------|---|
| name | string | Name of the broadcast domain, scoped to its IPspace |
| uuid | string | Broadcast domain UUID                               |

home\_node

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

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

## iscsi

| 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. |



| Name    | Type          | Description   |
|---------|---------------|---|
| 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   |
|---------|---------|---|
| 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   |
|---------|---------|---|
| domain  | string  | The NIS domain to which this configuration belongs.                         |
| enabled | boolean | Enable NIS? Setting to true creates a configuration if not already created. |

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

| Name                | Type    | Description   |
|---------------------|---------|---|
| 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                | 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  |
| 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      |
|------|--------|------------------|
| name | string | Certificate name |
| uuid | string | Certificate UUID |

#### s3

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

| Name        | Type    | Description  |
|-------------|---------|--|
| 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 |
|------|--------|-------------|
| name | string |             |
| uuid | string |             |

svm

| 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.                 |

| 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. |
| 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>                           |  |
| 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.   |
| 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   |
|------|--------|---|
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

#### error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

#### error

| Name      | Type                                     | Description                                 |
|-----------|--|---|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Delete an SVM

DELETE /svm/svms/{uuid}

**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>            |  |
| <code>aggregates</code> | <code>array[<a href="#">aggregates</a>]</code> | List of allowed aggregates for SVM volumes. An administrator is allowed to create volumes on these aggregates. |

| Name                                 | Type                                      | Description  |
|--------------------------------------|---|--|
| 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            | <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>            |   |
| 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. |
| 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   |

| Name    | Type   | Description  |
|---------|--------|--|
| 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": "string",
  "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",
      "organizational_unit": "string"
    },
    "name": "CIFS1"
  },
  "comment": "string",
  "dns": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}
```

```

    }
  },
  "domains": [
    "example.com",
    "example2.example3.com"
  ],
  "servers": [
    "10.224.65.20",
    "2001:db08:a0b:12f0::1"
  ]
},
"fc_interfaces": [
  {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "data_protocol": "string",
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
],
"fc": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"ip_interfaces": [
  {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7"
    },
    "name": "lif1",
    "services": [
      "data_nfs"
    ],
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
]

```

```

],
"ipospace": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "exchange",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"iscsi": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"language": "c.utf_8",
"ldap": {
  "ad_domain": "string",
  "base_dn": "string",
  "bind_dn": "string",
  "servers": [
    "string"
  ]
},
"max_volumes": "string",
"name": "svm1",
"nfs": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"nis": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "domain": "string",
  "servers": [
    "string"
  ]
},

```

```

"nsswitch": {
  "group": [
    "string"
  ],
  "hosts": [
    "string"
  ],
  "namemap": [
    "string"
  ],
  "netgroup": [
    "string"
  ],
  "passwd": [
    "string"
  ]
},
"nvme": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"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"
},
"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": "string",
"uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}

```

## Error

Status: Default, Error

| Name  | Type  | Description |
|-------|-------|-------------|
| error | error |             |

### Example error

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

### Definitions

## See Definitions

href

| Name | Type   | Description |
|------|--------|-------------|
| href | string |             |

\_links

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

aggregates

Aggregate

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

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. |

#### 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 |
|--------|------------------------|-------------|
| _links | <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  |
|---------------|------------------------|--|
| _links        | <a href="#">_links</a> |  |
| data_protocol | string                 | The data protocol for which the Fibre Channel interface is configured. |
| name          | string                 | The name of the Fibre Channel interface.                               |
| uuid          | string                 | The unique identifier of the Fibre Channel interface.                  |

#### fcp

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

| Name    | Type    | Description  |
|---------|---------|--|
| enabled | boolean | If allowed, setting to true enables the FCP service. |

ip

IP information

| Name    | Type   | Description          |
|---------|--------|----------------------|
| address | string | IPv4 or IPv6 address |

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

nsswitch

Name service switch configuration

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

nvme

| Name    | Type                   | Description  |
|---------|------------------------|--|
| _links  | <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                   | 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 |

| Name    | Type   | Description   |
|---------|--------|---|
| 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      |
|--------|------------------------|------------------|
| _links | <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.             |



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

| 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>             |   |
| 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. |
| 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   |
| uuid            | string                          | The unique identifier of the SVM.   |

## Example request

```
{
  "aggregates": [
    {
      "name": "aggr1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "anti_ransomware_default_volume_state": "string",
  "certificate": {
    "name": "cert1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "cifs": {
    "enabled": null
  },
  "comment": "string",
  "fc_interfaces": [
    {
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "fcg": {
    "enabled": null
  },
  "ip_interfaces": [
    {
      "services": [
        "data_nfs"
      ],
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "iscsi": {
    "enabled": null
  },
  "language": "c.utf_8",
  "max_volumes": "string",
  "name": "svm1",
  "nfs": {
    "enabled": null
  },
  "nsswitch": {
    "group": [
      "string"
    ]
  }
}
```



```

    ],
    "hosts": [
        "string"
    ],
    "namemap": [
        "string"
    ],
    "netgroup": [
        "string"
    ],
    "passwd": [
        "string"
    ]
},
"nvme": {
    "enabled": null
},
"qos_policy": {
    "max_throughput_iops": 10000,
    "max_throughput_mbps": 500,
    "min_throughput_iops": 2000,
    "min_throughput_mbps": 500,
    "name": "performance",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"snapmirror": {
    "protected_volumes_count": 0
},
"snapshot_policy": {
    "name": "default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"state": "running",
"uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}

```

## Response

Status: 202, Accepted

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

## Example response

```
{
  "job": {
    "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.   |
| 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.                             |

## Definitions

## See Definitions

href

| Name | Type   | Description |
|------|--------|-------------|
| href | string |             |

\_links

aggregates

Aggregate

| Name | Type   | Description |
|------|--------|-------------|
| 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      |
|------|--------|------------------|
| name | string | Certificate name |
| uuid | string | Certificate UUID |

ad\_domain

cifs

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

dns

| 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              |
|------|--------|--------------------------|
| name | string | The name of the FC port. |

| Name | Type                 | Description                               |
|------|----------------------|---|
| 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   |
|------|--------|---|
| uuid | string | The unique identifier of the Fibre Channel interface. |

fcp

| 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. |

ip

IP information

broadcast\_domain

Broadcast domain UUID along with a readable name.

| Name | Type   | Description   |
|------|--------|---|
| name | string | Name of the broadcast domain, scoped to its IPspace |

| Name | Type   | Description           |
|------|--------|-----------------------|
| uuid | string | Broadcast domain UUID |

home\_node

| Name | Type   | Description |
|------|--------|-------------|
| 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                                      |
|----------|--------------------|--|
| ip       | <a href="#">ip</a> | IP information                                   |
| 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  |
|------|--------|--------------|
| name | string | IPspace name |
| uuid | string | IPspace UUID |

iscsi

| 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. |

#### 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   |
|---------|---------|---|
| 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. |

#### nis

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



## 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   |
|---------------------|---------|---|
| 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                | 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  |
| 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      |
|------|--------|------------------|
| name | string | Certificate name |
| uuid | string | Certificate UUID |

#### s3

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

| Name             | Type    | Description  |
|------------------|---------|--|
| 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 |
|------|--------|-------------|
| name | string |             |
| uuid | string |             |

#### svm

| 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  |
| 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  |
| 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.                          |
| 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>             |   |
| 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. |
| 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   |
| uuid            | string                          | The unique identifier of the SVM.   |

job\_link

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

#### error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

#### error

| Name      | Type                                     | Description                                 |
|-----------|--|---|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

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