



## **View SSH SVMs**

ONTAP 9.12.1 REST API reference

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# View SSH SVMs

## Security SSH svms endpoint overview

### Overview

This endpoint is used to retrieve the SSH security configuration for all SVMs. The configuration consists of SSH security parameters. The security algorithms include SSH key exchange algorithms, ciphers for payload encryption, MAC algorithms, and the maximum authentication retry attempts allowed before closing the connection. The SSH configuration for a newly created SVM is the same as the SSH configuration at cluster level. When the cluster SSH configuration is updated using `/security/ssh` endpoint, the SSH configuration of existing SVMs is not impacted. To customize the SSH security parameters for a particular SVM, perform a PATCH operation on the `api/security/ssh/svms/{svm.uid}` endpoint.

### Example

#### Retrieving the SSH security configuration of all SVMs.

```
# The API:
GET "/api/security/ssh/svms"

# The call:
curl -X GET "https://<mgmt-ip>/api/security/ssh/svms"

# The response:
{
  "num_records": 1,
  "records": [
    {
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7",
        "_links": {
          "self": {
            "href": "/api/svm/svms/02c9e252-41be-11e9-81d5-00a0986138f7"
          }
        }
      },
      "ciphers": [
        "aes256_ctr",
        "aes192_ctr",
        "aes128_ctr"
      ],
      "key_exchange_algorithms": [
        "diffie_hellman_group_exchange_sha256",
        "diffie_hellman_group14_sha1"
      ]
    }
  ]
}
```

```

    "mac_algorithms": [
      "hmac_sha1",
      "hmac_sha2_512_etm"
    ],
    "max_authentication_retry_count": 6,
    "_links": {
      "self": {
        "href": "/api/security/ssh/svms/02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  },
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  }
}

```

## Retrieve the SSH server configuration for all SVMs

GET /security/ssh/svms

**Introduced In:** 9.10

Retrieves the SSH server configuration for all the SVMs.

### Related ONTAP commands

- security ssh

### Parameters

Name	Type	In	Required	Description
mac_algorithms	string	query	False	Filter by mac_algorithms
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name

Name	Type	In	Required	Description
key_exchange_algorithms	string	query	False	Filter by key_exchange_algorithms
ciphers	string	query	False	Filter by ciphers
max_authentication_retry_count	integer	query	False	Filter by max_authentication_retry_count <ul style="list-style-type: none"> <li>• Max value: 6</li> <li>• Min value: 2</li> </ul>
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. <ul style="list-style-type: none"> <li>• Max value: 120</li> <li>• Min value: 0</li> <li>• Default value: 1</li> </ul>

Name	Type	In	Required	Description
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_ssh_server</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ciphers": [
      "aes256_ctr",
      "aes192_ctr",
      "aes128_ctr"
    ],
    "key_exchange_algorithms": [
      "diffie_hellman_group_exchange_sha256",
      "diffie_hellman_group14_sha1"
    ],
    "mac_algorithms": [
      "hmac_sha1",
      "hmac_sha2_512_etm"
    ],
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  }
}
```

## Error

Status: Default, Error

Name	Type	Description
error	error	

### Example error

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

## Definitions



## See Definitions

href

Name	Type	Description
href	string	

\_links

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

\_links

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

svm

SVM name and UUID for which the SSH server is configured.

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

svm\_ssh\_server

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
ciphers	array[string]	Ciphers for encrypting the data.
key_exchange_algorithms	array[string]	Key exchange algorithms.
mac_algorithms	array[string]	MAC algorithms.
max_authentication_retry_count	integer	Maximum authentication retries allowed before closing the connection.
svm	<a href="#">svm</a>	SVM name and UUID for which the SSH server is configured.

## 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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