View SSH SVMs

REST API reference

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Table of Contents

View SSH SVMs . . . 1
Security SSH svms endpoint overview . . . 1
Example . . . 1
Retrieve the SSH server configuration for all SVMs . . . 3
Related ONTAP commands . . . 3
Parameters . . . 3
Response . . . 5
Error . . . 7
Definitions . . . 7

View SSH SVMs

Security SSH svms endpoint overview

Overview

This endpoint is used to retrieve the SSH security configuration for all data SVMs. The configuration consists of SSH security parameters. The security algorithms include SSH key exchange algorithms, ciphers for payload encryption, MAC algorithms, host key algorithms, maximum authentication retry attempts allowed before closing the connection, and *ssh-rsa* enabled status for public key algorithms. 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 data SVM, perform a PATCH operation on the *api/security/ssh/svms/{svm.uuid}* endpoint.

Example

Retrieving the SSH security configuration of all SVMs.

Retrieves the SSH security configurations associated with the owners or filtered list (for a specific data SVM and so on).

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

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

# The response
{
"records": [
  {
    "svm": {
      "uuid": "739e5da5-1a50-11ee-9cb0-005056bb97dc",
      "name": "svm1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/739e5da5-1a50-11ee-9cb0-005056bb97dc"
        }
      }
     },
     "ciphers": [
       "aes256_ctr",
       "aes192_ctr",
       "aes128_ctr",
       "aes128_gcm",
       "aes256_gcm"
```

```
      ],
      "key_exchange_algorithms": [
        "diffie_hellman_group_exchange_sha256",
        "ecdh_sha2_nistp256",
        "ecdh_sha2_nistp384",
        "ecdh_sha2_nistp521",
        "curve25519_sha256",
        "diffie_hellman_group16_sha512",
        "diffie_hellman_group18_sha512"
      ],
      "mac_algorithms": [
        "hmac_sha2_256",
        "hmac_sha2_512",
        "hmac_sha2_256_etm",
        "hmac_sha2_512_etm",
        "umac_64",
        "umac_128",
        "umac_64_etm",
        "umac_128_etm"
      ],
      "host_key_algorithms": [
        "ecdsa_sha2_nistp256",
        "ssh_rsa",
        "ssh_ed25519"
      ],
      "is_rsa_in_publickey_algorithms_enabled": true,
      "max_authentication_retry_count": 6,
      "_links": {
        "self": {
          "href": "/api/security/ssh/svms/739e5da5-1a50-11ee-9cb0-
005056bb97dc"
        }
      }
    }
  ],
  "num_records": 1,
    "_links": {
      "self": {
        "href": "/api/security/ssh/svms?fields=*"
     }
   }
}

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

```
# The response:
{
"records": [
  {
    "svm": {
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7",
      "name": "svm1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/02c9e252-41be-11e9-81d5-00a0986138f7"
        }
      }
    },
    "_links": {
      "self": {
        "href": "/api/security/ssh/svms/02c9e252-41be-11e9-81d5-
00a0986138f7"
      }
    }
  }
],
"num_records": 1,
  "_links": {
    "self": {
      "href": "/api/security/ssh/svms"
    }
  }
}
```

Retrieve the SSH server configuration for all SVMs

GET `/security/ssh/svms`

Introduced In: 9.10

Retrieves the SSH server configuration for all the data SVMs.

Related ONTAP commands

- `security ssh`

Parameters

Name	Type	In	Required	Description
is_rsa_in_publickey_algorithms_enabled	boolean	query	False	Filter by is_rsa_in_publickey_algorithms_enabled • Introduced in: 9.16
host_key_algorithms	string	query	False	Filter by host_key_algorithms • Introduced in: 9.16
mac_algorithms	string	query	False	Filter by mac_algorithms
ciphers	string	query	False	Filter by ciphers
key_exchange_algorithms	string	query	False	Filter by key_exchange_algorithms
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
max_authentication_retry_count	integer	query	False	Filter by max_authentication_retry_count • Max value: 6 • Min value: 2
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. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Max value: 120 • Min value: 0 • Default value: 1
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
num_records	integer	Number of records.
records	array[svm_ssh_server]	

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"
      ],
      "host_key_algorithms": [
        "ecdsa_sha2_nistp256",
        "ssh_ed25519",
        "ssh_rsa"
      ],
      "key_exchange_algorithms": [
        "diffie_hellman_group_exchange_sha256",
        "ecdh_sha2_nistp256"
      ],
      "mac_algorithms": [
        "hmac_sha2_512",
        "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	returned_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	href	
self	href	

_links

Name	Type	Description
self	href	

svm

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

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

svm_ssh_server

Name	Type	Description
_links	_links	
ciphers	array[string]	Ciphers for encrypting the data.
host_key_algorithms	array[string]	Host key algorithms. The host key algorithm 'ssh_ed25519' can be configured only in non-FIPS mode.

Name	Type	Description
is_rsa_in_publickey_algorithms_enabled	boolean	Enables or disables the *ssh-rsa* signature scheme, which uses the SHA-1 hash algorithm, for RSA keys in public key algorithms. If this flag is *false*, older SSH implementations might fail to authenticate using RSA keys. This flag should be enabled only as a temporary measure until legacy SSH client implementations can be upgraded or reconfigured with another key type, for example: ECDSA.
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	svm	SVM name and UUID for which the SSH server is configured.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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