Manage SSH security configuration

REST API reference

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Manage SSH security configuration

Security SSH svms svm.uuid endpoint overview

Overview

This endpoint is used to retrieve or modify the SSH security configuration to an SVM.

The SSH security algorithms include key exchange algorithms, ciphers for payload encryption, MAC algorithms, and the maximum authentication retry attempts allowed before closing the connection. svm.uuid corresponds to the UUID of the SVM for which the SSH security setting is being retrieved or modified and it is obtained from the response body of a GET operation performed on the *api/security/ssh/svms* API.

Examples

Updating the SSH security parameters

Specify the algorithms in the body of the PATCH request.

```
# The API:
PATCH "/api/security/ssh/svms/{svm.uuid}"

# The call:
curl -X PATCH "https://<mgmt-ip>/api/security/ssh/svms/02c9e252-41be-11e9-
81d5-00a0986138f7" -d '{ "ciphers": [ "aes256_ctr", "aes192_ctr" ],
"key_exchange_algorithms": [ "diffie_hellman_group_exchange_sha256",
"diffie_hellman_group14_sha1" ], "mac_algorithms": [ "hmac_sha2_512_etm",
"umac_128_etm" ], "max_authentication_retry_count": 3 }'
```

Retrieving the SSH security configuration of an SVM

```
# The API:
GET "/api/security/ssh/svms/{svm.uuid}"

# The call:
curl -X GET "https://<mgmt-ip>/api/security/ssh/svms/02c9e252-41be-11e9-
81d5-00a0986138f7"

# The response:
{
"ciphers": [
  "aes256_ctr",
  "aes192_ctr"
],
"key_exchange_algorithms": [
  "diffie_hellman_group_exchange_sha256",
  "diffie_hellman_group14_sha1"
],
"mac_algorithms": [
  "hmac_sha2_512_etm",
  "umac_128_etm"
],
"max_authentication_retry_count": 3,
"svm": {
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7",
  "_links": {
    "self": {
      "href": "/api/svm/svms/02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  }
},
"_links": {
  "self": {
    "href": "/api/security/ssh/svms/02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
}
```

Retrieve the SSH server configuration for an SVM

GET `/security/ssh/svms/{svm.uuid}`

Introduced In: 9.10

Retrieves the SSH server configuration for the specified SVM.

Related ONTAP commands

- `security ssh`

Parameters

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

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
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	svm	SVM name and UUID for which the SSH server is configured.

Example response


```
{
  "_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
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.
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[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update the SSH server configuration for an SVM

PATCH `/security/ssh/svms/{svm.uuid}`

Introduced In: 9.10

Updates the SSH server configuration for the specified SVM.

Optional parameters

- `ciphers` - Encryption algorithms for the payload
- `key_exchange_algorithms` - SSH key exchange algorithms
- `mac_algorithms` - MAC algorithms
- `max_authentication_retry_count` - Maximum authentication retries allowed before closing the connection

Related ONTAP commands

- `security ssh`

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID

Request Body

Name	Type	Description
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	svm	SVM name and UUID for which the SSH server is configured.

Example request

```
{
  "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": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
10682372	There must be at least one key exchange algorithm associated with the SSH configuration.
10682373	There must be at least one cipher associated with the SSH configuration.
10682375	Failed to modify SSH key exchange algorithms.
10682378	Failed to modify SSH ciphers.

Error Code	Description
10682399	Key exchange algorithm not supported in FIPS-enabled mode.
10682400	Failed to modify SSH MAC algorithms.
10682401	MAC algorithm not supported in FIPS-enabled mode.
10682403	There must be at least one MAC algorithm with the SSH configuration.
10682413	Failed to modify maximum authentication retry attempts.
10682418	Cipher not supported in FIPS-enabled mode.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

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

Name	Type	Description
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

svm_ssh_server

Name	Type	Description
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	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

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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