



View SSH SVMs

ONTAP 9.14.1 REST API reference

NetApp
May 08, 2024

This PDF was generated from https://docs.netapp.com/us-en/ontap-restapi/ontap/security_ssh_svms_endpoint_overview.html on May 08, 2024. Always check docs.netapp.com for the latest.

Table of Contents

- View SSH SVMs..... 1
 - Security SSH svms endpoint overview 1
 - Retrieve the SSH server configuration for all SVMs 3

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.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 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"
    ],
    "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"
    ],
    "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 SVMs.

Related ONTAP commands

- security ssh

Parameters

Name	Type	In	Required	Description
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
max_authentication_retry_count	integer	query	False	Filter by max_authentication_retry_count <ul style="list-style-type: none"> • Max value: 6 • Min value: 2

Name	Type	In	Required	Description
ciphers	string	query	False	Filter by ciphers
key_exchange_algorithms	string	query	False	Filter by key_exchange_algorithms
mac_algorithms	string	query	False	Filter by mac_algorithms
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	<p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> • Default value: 1
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"> • 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"
    ],
    "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.
key_exchange_algorithms	array[string]	Key exchange algorithms.
mac_algorithms	array[string]	MAC algorithms.

Name	Type	Description
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.

Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.