



Manage authentication keys

REST API reference

NetApp
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```
# The API:
GET /api/security/key-managers/{security_key_manager.uuid}/auth-keys

# The call:
curl -X GET 'https://<mgmt-ip>/api/security/key-managers/5fb1701a-d922-11e8-bfe8-005056bb017d/auth-keys?fields=*' -H 'accept: application/hal+json'

# The response:
{
  "num_records": 2,
  "records": [
    {
      "security_key_manager": {
        "uuid": "d36a654d-14b4-11ed-b82e-005056bb8f59"
      },
      "key_id":
"00000000000000000200000000000100052ab79fc51a430dbb16f1c0d2054cfe000000000
0000000",
      "key_tag": "vsim1"
    },
    {
      "security_key_manager": {
        "uuid": "d36a654d-14b4-11ed-b82e-005056bb8f59"
      },
      "key_id":
"000000000000000002000000000001003f32ce2dc55d2764c07da74e722c179b000000000
0000000",
      "key_tag": "vsim1"
    }
  ]
}
```

Retrieving a specific authentication key associated with the admin SVM.

The following example shows how to a specific authentication key associated with the admin SVM and return the key-tag.

```
= The API:

GET /api/security/key-managers/{security_key_manager.uuid}/auth-
keys/{key-id}
```

= The call:

```
curl -X GET 'https://+++<mgmt-ip>+++/api/security/key-managers/5fb1701a-  
d922-11e8-bfe8-005056bb017d/auth-  
keys/0000000000000000020000000000010041a2dda969b0d179db8f1c78d629d0f100000  
00000000000?fields=key_tag' -H 'accept: application/hal+json'+++</mgmt-  
ip>+++
```

= The response:

```
{  
  "security_key_manager": {  
    "uuid": "d36a654d-14b4-11ed-b82e-005056bb8f59"  
  },  
  "key_id":  
    "0000000000000000020000000000010041a2dda969b0d179db8f1c78d629d0f1000000000  
0000000",  
  "key_tag": "vsim1"  
}
```

```
[[IDc6ae5e891100bb509ccc70086101151f]]
```

= Retrieve authentication keys associated with the admin SVM

```
[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-  
block]#`/security/key-managers/{security_key_manager.uuid}/auth-keys`#
```

Introduced In: 9.12

Retrieves a list of all authentication keys associated with the admin SVM.

== Related ONTAP commands

* `security key-manager key query`

== Required properties

* `security\_key\_manager.uuid` - UUID of the external key manager.

== Parameters

```
[cols=5*,options=header]
```

```
|===
```

```

|Name
|Type
|In
|Required
|Description

|key_tag
|string
|query
|False
a|Filter by key_tag

|key_id
|string
|query
|False
a|Filter by key_id

|security_key_manager.uuid
|string
|path
|True
a|External key manager UUID

|fields
|array[string]
|query
|False
a|Specify the fields to return.

|max_records
|integer
|query
|False
a|Limit the number of records returned.

|return_timeout
|integer
|query
|False
a|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.

* Default value: 15

* Max value: 120

* Min value: 0

|return_records

|boolean

|query

|False

a|The default is true for GET calls. When set to false, only the number of records is returned.

* Default value: 1

|order_by

|array[string]

|query

|False

a|Order results by specified fields and optional [asc|desc] direction. Default direction is 'asc' for ascending.

|===

== Response

Status: 200, Ok

[cols=3*,options=header]

|===

|Name

|Type

|Description

|_links

|link:#_links[_links]

a|

|num_records

|integer

a|Number of records

```

|records
|array[link:#key_manager_auth_key[key_manager_auth_key]]
a|

|===

.Example response
[%collapsible%closed]
=====
[source,json,subs=+macros]
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "key_id":
"0000000000000000002000000000001003aa8ce6a4fea3e466620134bea9510a1000000000
0000000",
      "key_tag": "Authentication-Key-01",
      "security_key_manager": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563434"
      }
    }
  ]
}
=====

== Error

```

ONTAP Error Response Codes

|===

| Error Code | Description

| 65536828

| External key management is not enabled for the SVM.

| 65536856

| No key servers found for the SVM.

| 65536896

| External key management is not configured on the partner site.

| 65538800

| External KMIP DKMIP keymanager not configured on administrative Vserver.

| 65538801

| Internal error while accessing keymanager database.

| 65538802

| The UUID provided is not associated with the administrator SVM key manager.

|===

Also see the table of common errors in the [xref:{relative_path}getting_started_with_the_ontap_rest_api.html#Response_body\[Response body\]](#) overview section of this documentation.

[cols=3*,options=header]

|===

|Name

|Type

|Description

|error

|link:#returned_error[returned_error]

a|

|===

```

.Example error
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
|===
|Name
|Type
|Description

|href
|string
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

```

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|next
|link:#href[href]
a|

|self
|link:#href[href]
a|

|===

[#self_link]
[.api-collapsible-fifth-title]
self_link

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

```

|===

```
[#security_key_manager]
[.api-collapsible-fifth-title]
security_key_manager
```

Security key manager object reference.

```
[cols=3*,options=header]
```

|===

|Name

|Type

|Description

|_links

|link:#_links[_links]

a|

|uuid

|string

a|Key manager UUID

|===

```
[#key_manager_auth_key]
[.api-collapsible-fifth-title]
key_manager_auth_key
```

```
[cols=3*,options=header]
```

|===

|Name

|Type

|Description

|_links

|link:#self_link[self_link]

a|

|key_id

|string

a|Key identifier.

```
|key_tag
|string
a|Optional parameter to define key-tag for the authentication key, length
0-32 characters.
```

```
|security_key_manager
|link:#security_key_manager[security_key_manager]
a|Security key manager object reference.
```

```
|===
```

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
|code
|string
a|Argument code
```

```
|message
|string
a|Message argument
```

```
|===
```

```
[#returned_error]
[.api-collapsible-fifth-title]
returned_error
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments
```

```
|code
|string
a|Error code
```

```
|message
|string
a|Error message
```

```
|target
|string
a|The target parameter that caused the error.
```

```
|===
```

```
//end collapsible .Definitions block
====
```

```
[[ID1cd1f280b187c3d5863fd8d0ad903d92]]
= Create an authentication key
```

```
[.api-doc-operation .api-doc-operation-post]#POST# [.api-doc-code-
block]#`/security/key-managers/{security_key_manager.uuid}/auth-keys`#
```

Introduced In: 9.12

Creates an authentication key.

== Related ONTAP commands

* `security key-manager key create`

== Required properties

* `security\_key\_manager.uuid` - UUID of the external key manager.

== Parameters

```
[cols=5*,options=header]
|===
```

```
|Name
|Type
|In
|Required
|Description
```

```
|security_key_manager.uuid
|string
|path
|True
a|External key manager UUID
```

```
|return_records
|boolean
|query
|False
a|The default is false. If set to true, the records are returned.
```

* Default value:

```
|===
```

== Request Body

```
[cols=3*,options=header]
|===
```

```
|Name
|Type
|Description
```

```
|key_id
|string
a|Key identifier.
```

```
|key_tag
|string
a|Optional parameter to define key-tag for the authentication key, length
```

```
|passphrase
|string
a|Authentication passphrase, length 20-32 characters. May contain the '='
character.
```

$$| \quad = \quad = \quad =$$

status: 201, Created

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```

|records
|array[link:#key_manager_auth_key[key_manager_auth_key]]
a|

|===

.Example response
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "records": [
    {
      "key_id":
"000000000000000000002000000000001003aa8ce6a4fea3e466620134bea9510a1000000000
0000000",
      "key_tag": "Authentication-Key-01",
      "passphrase": "AuthenticationKey_01",
      "security_key_manager": {
        "uuid": "1cd8a442-86d1-11e0-aelc-123478563434"
      }
    }
  ]
}
====

=== Headers

[cols=3*,options=header]
|===
//header
|Name
|Description
|Type
//end header

//start row
|Location
|Useful for tracking the resource location
|string
//end row
//end table
|===

```

== Error

Status: Default

ONTAP Error Response Codes

```
|===  
| Error Code | Description  
  
| 65536048  
| The maximum number of authentication keys are already configured.  
  
| 65536053  
| Invalid passphrase length; passphrase must be 20-32 ASCII-range  
characters.  
  
| 65536056  
| The key tag value provided contains invalid characters.  
  
| 65536056  
| The key-tag option cannot contain any spaces, tabs or new lines.  
  
| 65536076  
| Failed to push authentication key to any registered key servers.  
  
| 65536160  
| Unable to determine the current number of configured authentication  
keys.  
  
| 65536264  
| Failed to create authentication key.  
  
| 65536265  
| Failed to create a key-id for the authentication key.  
  
| 65536828  
| External key management is not enabled for the SVM.  
  
| 65536856  
| No key servers found for the SVM.  
  
| 65536872  
| Error cleaning up key database after key creation error.  
  
| 65536896  
| External key management is not configured on the partner site.
```

```

| 65536987
| One or more key servers are unavailable.

| 65538800
| External KMIP DKMIP keymanager not configured on administrative Vserver.

| 65538801
| Internal error while accessing keymanager database.

| 65538802
| The UUID provided is not associated with the administrator SVM key
manager.

| 66060289
| Failed to store authentication key on key server.

| 66060304
| Invalid key length.
|===

```

Also see the table of common errors in the [xref:{relative_path}getting_started_with_the_ontap_rest_api.html#Response_body\[Response body\]](#) overview section of this documentation.

== Definitions

```

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
|===
|Name
|Type
|Description

|href
|string
a|

```

```

|===

[#self_link]
[.api-collapsible-fifth-title]
self_link
[#_links]
[.api-collapsible-fifth-title]
_links
[#security_key_manager]
[.api-collapsible-fifth-title]
security_key_manager

Security key manager object reference.

```

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

```

```

|uuid
|string
a|Key manager UUID

```

```

|===

[#key_manager_auth_key]
[.api-collapsible-fifth-title]
key_manager_auth_key

```

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

```

```

|key_id
|string
a|Key identifier.

```

```

|key_tag
|string

```

a|Optional parameter to define key-tag for the authentication key, length 0-32 characters.

|passphrase

|string

a|Authentication passphrase, length 20-32 characters. May contain the '=' character.

|security_key_manager

|link:#security_key_manager[security_key_manager]

a|Security key manager object reference.

|===

[#error_arguments]

[.api-collapsible-fifth-title]

error_arguments

[cols=3*,options=header]

|===

|Name

|Type

|Description

|code

|string

a|Argument code

|message

|string

a|Message argument

|===

[#returned_error]

[.api-collapsible-fifth-title]

returned_error

[cols=3*,options=header]

|===

```

|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments


|code
|string
a|Error code


|message
|string
a|Error message


|target
|string
a|The target parameter that caused the error.


|===

//end collapsible .Definitions block
====

[[ID6cdb84b6a99d8682ede47d85226684a0]]
= Delete an authentication key

[.api-doc-operation .api-doc-operation-delete]#DELETE# [.api-doc-code-
block]#`/security/key-managers/{security_key_manager.uuid}/auth-
keys/{key_id}`#

*Introduced In:* 9.12

Deletes an authentication key.

== Related ONTAP commands

* `security key-manager key delete`

```

== Required properties

* `security\_key\_manager.uuid` - UUID of the external key manager.
* `key\_id` - Key ID of the authentication key to be deleted.

== Parameters

[cols=5*,options=header]

|==

|Name

|Type

|In

|Required

|Description

|security_key_manager.uuid

|string

|path

|True

a|External key manager UUID

|key_id

|string

|path

|True

a|Key ID of the authentication key to be deleted.

|==

== Response

Status: 200, Ok

== Error

Status: Default

ONTAP Error Response Codes

|==

| Error Code | Description

```

| 65536828
| External key management is not enabled for the SVM.

| 65536859
| Authentication key-Id provided for deletion is in use.

| 65536860
| Key-id provided for deletion is not an authentication key.

| 65538800
| External KMIP DKMIP keymanager not configured on administrative Vserver.

| 65538801
| Internal error while accessing keymanager database.

| 65538802
| The UUID provided is not associated with the administrator SVM key
manager.

| 66060296
| Failed to delete key from an external key server.
|===

```

Also see the table of common errors in the [xref:{relative_path}getting_started_with_the_ontap_rest_api.html#Response_body\[Response body\] overview](#) section of this documentation.

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|error
|link:#returned_error[returned_error]
a|

```

```

|===

```

```

.Example error
[%collapsible%closed]
====
[source,json,subs=+macros]
{

```

```

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

```

====

== Definitions

```

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block

```

====

```

[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments

```

```

[cols=3*,options=header]

```

|===

```

|Name
|Type
|Description

```

```

|code
|string
a|Argument code

```

```

|message
|string
a|Message argument

```

|===

```

[#returned_error]
[.api-collapsible-fifth-title]
returned_error

```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments
```

```
|code
|string
a|Error code
```

```
|message
|string
a|Error message
```

```
|target
|string
a|The target parameter that caused the error.
```

```
|===
```

```
//end collapsible .Definitions block
====
```

```
[[ID2666a3dab7a2e78cc3b26ace993088c4]]
= List all authentication keys associated with the admin SVM
```

```
[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-
block]#`/security/key-managers/{security_key_manager.uuid}/auth-
keys/{key_id}`#
```

```
*Introduced In:* 9.12
```

```
Retrieves the authentication key identified by the 'key_id' and associated
with the admin SVM.
```

== Related ONTAP commands

* `security key-manager key query`

== Required properties

* `security\_key\_manager.uuid` - UUID of the external key manager.

* `key\_id` - Key ID of the authentication key to be retrieved.

== Parameters

[cols=5*,options=header]

|==

|Name

|Type

|In

|Required

|Description

|key_tag

|string

|query

|False

a|Filter by key_tag

|security_key_manager.uuid

|string

|path

|True

a|External key manager UUID

|key_id

|string

|path

|True

a|Key ID of the authentication key to be retrieved.

|fields

|array[string]

|query

|False

a|Specify the fields to return.

```
|max_records
|integer
|query
|False
a|Limit the number of records returned.
```

```
|return_timeout
|integer
|query
|False
a|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.
```

```
* Default value: 15
* Max value: 120
* Min value: 0
```

```
|return_records
|boolean
|query
|False
a|The default is true for GET calls. When set to false, only the number
of records is returned.
```

```
* Default value: 1
```

```
|order_by
|array[string]
|query
|False
a|Order results by specified fields and optional [asc|desc] direction.
Default direction is 'asc' for ascending.
```

```
|===
```

```
== Response
```

Status: 200, Ok

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#self_link[self_link]
a|

|key_id
|string
a|Key identifier.

|key_tag
|string
a|Optional parameter to define key-tag for the authentication key, length
0-32 characters.

|security_key_manager
|link:#security_key_manager[security_key_manager]
a|Security key manager object reference.

|===

.Example response
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "key_id":
"00000000000000000000000020000000000001003aa8ce6a4fea3e466620134bea9510a1000000000
0000000",
  "key_tag": "Authentication-Key-01",
  "security_key_manager": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"

```

```

    }
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563434"
}
}
====

== Error

```

Status: Default

ONTAP Error Response Codes

```

|===
| Error Code | Description
|
| 65536828
| External key management is not enabled for the SVM.
|
| 65536856
| No key servers found for the SVM.
|
| 65536896
| External key management is not configured on the partner site.
|
| 65538800
| External KMIP DKMIP keymanager not configured on administrative Vserver.
|
| 65538801
| Internal error while accessing keymanager database.
|
| 65538802
| The UUID provided is not associated with the administrator SVM key
manager.
|===

```

Also see the table of common errors in the [xref:{relative_path}getting_started_with_the_ontap_rest_api.html#Response_body\[Response body\]](#) overview section of this documentation.

```

[cols=3*,options=header]
|===
|Name
|Type

```

```

|Description

|error
|link:#returned_error[returned_error]
a|

|===

.Example error
[%collapsible%closed]
=====
[source,json,subs=+macros]
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
=====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
=====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
|===
|Name
|Type
|Description

|href

```

```

|string
a|

|===

[#self_link]
[.api-collapsible-fifth-title]
self_link

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

|===

[#security_key_manager]
[.api-collapsible-fifth-title]
security_key_manager

Security key manager object reference.

```

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|uuid
|string
a|Key manager UUID

|===

[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments

[cols=3*,options=header]
|===
|Name
|Type
|Description

|code
|string
a|Argument code

|message
|string
a|Message argument

|===

[#returned_error]
[.api-collapsible-fifth-title]
returned_error

[cols=3*,options=header]
|===

```

```
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments
```

```
|code
|string
a|Error code
```

```
|message
|string
a|Error message
```

```
|target
|string
a|The target parameter that caused the error.
```

```
|===
```

```
//end collapsible .Definitions block
====
```

```
:leveloffset: -1
```

```
:leveloffset: -1
```

```
<<<
```

```
*Copyright information*
```

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