



Manage authentication keys

ONTAP 9.12.1 REST API reference

NetApp
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Table of Contents

- Manage authentication keys 1
- Security key-managers security_key_manager.uuid auth-keys endpoint overview 1

Manage authentication keys

Security key-managers security_key_manager.uuid auth-keys endpoint overview

Overview

Used to create and list authentication keys (NSE-AK).

Example

Creates an authentication key.



an external key manager must be configured on the admin SVM, as the authentication key will be associated with the admin SVM. The following example shows how to create an authentication key.

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

# The call:
curl -X POST 'https://<mgmt-ip>/api/security/key-managers/5fb1701a-d922-11e8-bfe8-005056bb017d/auth-keys?return_timeout=15&return_records=true' -H 'accept: application/hal+json'

# The response:
{
  "num_records": 1,
  "records": [
    {
      "key_id":
      "00000000000000000000200000000000100531d8cdc38437c2627b6b1726dd2675c00000000
      000000",
      "key_tag": "vsim1"
    }
  ]
}
```

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

The following example shows how to retrieve a list of all of the authentication keys associated with the admin SVM.

```

# 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/0000000000000000020000000000010041a2dda969b0d179db8f1c78d629d0f100000000000000?fields=key_tag' -H 'accept: application/hal+json'+++</mgmt-ip>+++
```

= The response:

```
{
  "security_key_manager": {
    "uuid": "d36a654d-14b4-11ed-b82e-005056bb8f59"
  },
  "key_id":
  "0000000000000000020000000000010041a2dda969b0d179db8f1c78d629d0f100000000000000",
  "key_tag": "vsim1"
}
```

[[ID3bb7d5be155f20285bf1a22e7280ab5d]]

= 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_id  
|string  
|query  
|False  
a|Filter by key_id
```

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

```
|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: 1
- * 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":
"00000000000000000000100000000000123456789asdfghjklqwertyuio12345678000000000
0000090",
    "key_tag": "Authentication Key-01",
    "passphrase": "AuthenticationKey_01"
  }
}
=====

== Error

```

Status: Default

ONTAP Error Response Codes

```

|===
| Error Code | Description
| 65536074

```



```
| No key servers found.

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

| 65536856
| No key servers found.

| 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.
|===
```

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

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|error
```

```
|link:#error[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|

|===

[#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.

```

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

```
|===
```

```
[#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
```

```
|===
```

```
[#error]
[.api-collapsible-fifth-title]
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
=====

[[ID375ef177bfd8820ce96b0cf19428a24c]]
= 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

|_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.

```

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

```
|===
```

```
.Example request
```

```
[%collapsible%closed]
```

```
====
```

```
[source,json,subs=+macros]
```

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "key_id":
"00000000000000000100000000000123456789asdfghjklqwertyuio12345678000000000
0000090",
  "key_tag": "Authentication Key-01",
  "passphrase": "AuthenticationKey_01"
}
```

```
====
```

```
== Response
```

Status: 201, Created

```
[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":
"00000000000000000000100000000000123456789asdfghjklqwertyuio12345678000000000
0000090",
    "key_tag": "Authentication Key-01",
    "passphrase": "AuthenticationKey_01"
  }
}
=====

=== 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.

| 65536074
| No key servers found.

| 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.

| 65536872
| Error cleaning up key database after key creation error.

| 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.

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

| 66060302
| Failed to create authentication key.

| 66060304
| Invalid key length.
|===

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

|error
|link:#error[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|

|===

[#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.

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

|===

[#_links]

```

```

[.api-collapsible-fifth-title]
_links

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

|next
|link:href[href]
a|

|self
|link:href[href]
a|

|===

[#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

|===

[#error]
[.api-collapsible-fifth-title]
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
====

[[ID74a7d01e4852a2099d9c9d7098b5ee06]]
= 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.

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

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|error
```

```
|link:#error[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

```

```

|===

```

```

[#error]

```

```

[.api-collapsible-fifth-title]

```

```

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
=====

[[IDb6cda3619bdc4e2bc0b98a6d75caa89f]]
= 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 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.  
* `key_id` - Key ID of the authentication key to be deleted.
```

```
== 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 deleted.
```

```
|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: 1
* 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.
```

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

```
|===
```

.Example response

```
[%collapsible%closed]
```

```
=====
```

```
[source,json,subs=+macros]
```

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "key_id":
  "000000000000000000000000000000001000000000000123456789asdfghjklqwertyuio123456780000000000
  0000090",
  "key_tag": "Authentication Key-01",
  "passphrase": "AuthenticationKey_01"
}
```

```
=====
```

```
== Error
```

Status: Default

ONTAP Error Response Codes

|===

| Error Code | Description

| 65536074

| No key servers found.

| 65536828

| External key management is not enabled for the SVM.

| 65536856

| No key servers found.

| 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.

|===

[cols=3*,options=header]

|===

|Name

|Type

|Description

|error

|link:#error[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|

|===

[#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

|===

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