



## **View security key managers**

ONTAP 9.13.1 REST API reference

NetApp  
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# View security key managers

## Security key-managers security\_key\_manager.uuid keys node.uuid key-ids endpoint overview

### Overview

Retrieves the key manager keys on the give node. The following operations are supported:

- Get

### Examples

#### Retrieving key manager key-id information for a node

The following example shows how to retrieve key-ids present on a node for a key manager.

```

# The API:
GET /api/security/key-
managers/{security_key_manager.uuid}/keys/{node.uuid}/key-ids

# The call:
curl -X GET 'https://<mgmt-ip>/api/security/key-managers/f4f98a48-8a5c-
c548-cd03-c6335f5803a8/keys/00000000-0000-0000-0000-000000000000/key-
ids/000000000000000002000000000005009ad4da8fea2cafe2bed803078b780ebe000000
0000000c01' -H 'accept: application/hal+json'

# The response:
{
  "security_key_manager": {
    "uuid": "f4f98a48-8a5c-c548-cd03-c6335f5803a8"
  },
  "node": {
    "uuid": "00000000-0000-0000-0000-000000000000"
  },
  "key_id":
"000000000000000002000000000005009ad4da8fea2cafe2bed803078b780ebe000000000
0000c01",
  "svm": {
    "name": "cluster-1"
  },
  "key_tag": "4d82cc07-f9e0-114e-55dc-82a224bea631",
  "key_type": "vek",
  "restored": false,
  "key_store": "onboard",
  "key_user": "datavs",
  "key_manager": "onboard",
  "key_store_type": "okm",
  "encryption_algorithm": "XTS-AES-256",
  "_links": {
    "self": {
      "href": "/api/security/key-managers/f4f98a48-8a5c-c548-cd03-
c6335f5803a8/keys/00000000-0000-0000-0000-000000000000/key-
ids/000000000000000002000000000005009ad4da8fea2cafe2bed803078b780ebe000000
0000000c01"
    }
  }
}

```

## Retrieving key manager key-id information of a specific key-type for a node

The following example shows how to retrieve key-ids of a specific key-type present on a node for a key manager.

= The API:

```
GET /api/security/key-  
manager/{security_key_manager.uuid}/keys/{node.uuid}/key-ids
```

= The call:

```
curl -X GET "https://+++<mgmt-ip>+++/api/security/key-managers/7c179931-  
044b-11ed-b7cd-005056bbc535/keys/44dac31e-0449-11ed-b7cd-005056bbc535/key-  
ids?key_type=nse_ak&return_records=true&return_timeout=15" -H "accept:  
application/json"+++</mgmt-ip>+++
```

= The response:

```
{  
  "records": [  
    {  
      "key_server": "10.225.89.34:5696",  
      "key_id":  
"000000000000000002000000000001003d5c5f8c497e8e36aa80566e08749a3d00000000  
000000",  
      "key_type": "nse_ak"  
    },  
    {  
      "key_server": "10.225.89.34:5696",  
      "key_id":  
"00000000000000000200000000000100c2dce9a3a15aeb8480db8d49c17d056c00000000  
000000",  
      "key_type": "nse_ak"  
    }  
  ],  
  "num_records": 2  
}
```

```
[[IDa46373fdb10a4c9bc5a65dd94e8e8af1]]
```

= Retrieve key manager configurations

```
[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-
```

```
block]#`/security/key-  
managers/{security_key_manager.uuid}/keys/{node.uuid}/key-ids`#
```

\*Introduced In:\* 9.11

Retrieves key manager configurations.

== Required properties

\* `security\_key\_manager.uuid` - Key manager UUID.

\* `node.uuid` - Node UUID.

== Related ONTAP commands

\* `security key-manager key query`

== Parameters

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

```
|===
```

```
|Name
```

```
|Type
```

```
|In
```

```
|Required
```

```
|Description
```

```
|key_tag
```

```
|string
```

```
|query
```

```
|False
```

```
a|Filter by key_tag
```

\* Introduced in: 9.12

```
|encryption_algorithm
```

```
|string
```

```
|query
```

```
|False
```

```
a|Filter by encryption_algorithm
```

\* Introduced in: 9.12

```
|key_user
```

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

\* Introduced in: 9.12

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

\* Introduced in: 9.12

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

\* Introduced in: 9.12

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

\* Introduced in: 9.12

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

\* Introduced in: 9.12

```
|key_type  
|string  
|query
```

```
|False
a|Filter by key_type

* Introduced in: 9.12

|key_store_type
|string
|query
|False
a|Filter by key_store_type

* Introduced in: 9.12

|node.name
|string
|query
|False
a|Filter by node.name

* Introduced in: 9.12

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

* Introduced in: 9.12

|restored
|boolean
|query
|False
a|Filter by restored

* Introduced in: 9.12

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



\* Introduced in: 9.12

|security\_key\_manager.uuid  
|string  
|path  
|True  
a|Key manager UUID.

|node.uuid  
|string  
|path  
|True  
a|Node UUID.

|max\_records  
|integer  
|query  
|False  
a|Limit the number of records returned.

|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

|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

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

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

```
|===
```

```
== 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_keys[key_manager_keys]]
a|

|===
```

```
.Example response
[%collapsible%closed]
```

```

=====
[source,json,subs=+macros]
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "crn": "CRN=v1:bluemix:public:containers-kubernetes",
    "encryption_algorithm": "XTS-AES-256",
    "key_id":
"000000000000000002000000000001008963c9213194c59555c1bec8db3603c800000000"
,
    "key_manager": "keyserver1.local:5696",
    "key_server": "keyserver1.com:5698",
    "key_store": "onboard",
    "key_store_type": "okm",
    "key_tag": "key#",
    "key_type": "nse_ak",
    "key_user": "vs1",
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "policy": "IBM_Key_Lore",
    "restored": 1
  }
}
=====

== Error

```

```
[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|

|===

```

```

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

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

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

|===

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

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

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

|name
|string
a|

|uuid
|string
a|

|===

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

```

Displays the keys stored in a key manager.

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

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
 |_links
```

```
|link:#self_link[self_link]
```

```
a|
```

```
|crn
```

```
|string
```

```
a|Cloud resource name.
```

```
|encryption_algorithm
```

```
|string
```

```
a|Encryption algorithm for the key
```

```
|key_id
```

```
|string
```

```
a|Key identifier.
```

```
|key_manager
```

```
|string
```

```
a|Key manager key server managing the key. Indicates the external key server when external key manager is configured.
```

```
|key_server
```

```
|string
```

```
a|External key server for key management.
```

```
|key_store
```

```
|string
```

```
a|Security key manager configured for the given manager UUID. Key manager keystore value can be onboard or external.
```

```
|key_store_type
```

```
|string
```

a|Security key manager keystore type. Keystore type can be onboard, external, or supported cloud key manager.

|key\_tag

|string

a|Additional information associated with the key.

|key\_type

|string

a|Encryption Key type.

|key\_user

|string

a|SVM associated with the key.

|node

|link:#node[node]

a|

|policy

|string

a|Key store policy.

|restored

|boolean

a|Indicates whether the key is present locally on the node.

|===

[#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
=====

```

```
[[ID0ced29f8c686c646837258e845c5ed4d]]
```

= Retrieve key management key information for specified keys

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

\*Introduced In:\* 9.11

Retrieves the key management keys information for the specified key\_id.

== Related ONTAP commands

\* `security key-manager key query -key-id <key\_id>`

== Parameters

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

```
|===
```

```
|Name
```

```
|Type
```

```
|In
```

```
|Required
```

```
|Description
```

```
|security_key_manager.uuid
```

```
|string
```

```
|path
```

```
|True
```

```
a|Key manager UUID.
```

```
|node.uuid
```

```
|string
```

```
|path
```

```
|True
```

```
a|Node UUID.
```

```
|key_id
```

```
|string
```

```
|path
```

```
|True
a|Key identifier.

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

|===

== Response
```

Status: 200, Ok

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

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

|crn
|string
a|Cloud resource name.

|encryption_algorithm
|string
a|Encryption algorithm for the key

|key_id
|string
a|Key identifier.

|key_manager
|string
a|Key manager key server managing the key. Indicates the external key
server when external key manager is configured.
```

```
|key_server
|string
a|External key server for key management.
```

```
|key_store
|string
a|Security key manager configured for the given key manager UUID. Key
manager keystore value can be onboard or external.
```

```
|key_store_type
|string
a|Security key manager keystore type. Keystore type can be onboard,
external, or supported cloud key manager.
```

```
|key_tag
|string
a|Additional information associated with the key.
```

```
|key_type
|string
a|Encryption Key type.
```

```
|key_user
|string
a|SVM associated with the key.
```

```
|node
|link:#node[node]
a|
```

```
|policy
|string
a|Key store policy.
```

```
|restored
|boolean
a|Indicates whether the key is present locally on the node.
```

```
|===
```

```
.Example response
```

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

```
====
```

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

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "crn": "CRN=v1:bluemix:public:containers-kubernetes",
  "encryption_algorithm": "XTS-AES-256",
  "key_id":
"0000000000000000000000000000000020000000000001008963c9213194c59555c1bec8db3603c800000000"
,
  "key_manager": "keyserver1.local:5696",
  "key_server": "keyserver1.com:5698",
  "key_store": "onboard",
  "key_store_type": "okm",
  "key_tag": "key#",
  "key_type": "nse_ak",
  "key_user": "vsl",
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "policy": "IBM_Key_Lore",
  "restored": 1
}
```

```
====
```

```
== Error
```

Status: Default, Error

```
[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|

|===

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

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

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

|===

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

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

```

```

|Type
|Description

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

|name
|string
a|

|uuid
|string
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
====

[[ID9de143614eee37c2ce5bd380384734b3]]
= Retrieve and restore unrestored keys

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

*Introduced In:* 9.13

Retrieves and restores any current unrestored keys (associated with the
storage controller) from the specified key management server.

== Required properties

* `security_key_manager.uuid` - UUID of the key management server.
The UUID of the external key manager can be retrieved using [GET

```

```
/api/security/key-managers`].
```

```
== Related ONTAP commands
```

```
* `security key-manager external restore`
```

```
== Parameters
```

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

```
|===
```

```
|Name
```

```
|Type
```

```
|In
```

```
|Required
```

```
|Description
```

```
|security_key_manager.uuid
```

```
|string
```

```
|path
```

```
|True
```

```
a|Key manager UUID.
```

```
|return_timeout
```

```
|integer
```

```
|query
```

```
|False
```

```
a|The number of seconds to allow the call to execute before returning.
```

```
When doing a POST, PATCH, or DELETE operation on a single record, the
```

```
default is 0 seconds. This means that if an asynchronous operation is
```

```
started, the server immediately returns HTTP code 202 (Accepted) along
```

```
with a link to the job. If a non-zero value is specified for POST, PATCH,
```

```
or DELETE operations, ONTAP waits that length of time to see if the job
```

```
completes so it can return something other than 202.
```

```
* Default value: 1
```

```
* Max value: 120
```

```
* Min value: 0
```

```
|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:#\_links[\_links]

a|

|key\_id

|string

a|Key identifier.

|key\_server

|string

a|External key server for key management.

|key\_tag

|string

a|Additional information associated with the key.

|node

|link:#node[node]

a|

|===

.Example request

[%collapsible%closed]

====

[source,json,subs=+macros]

{

  "\_links": {

```
"self": {
  "href": "/api/resourcelink"
},
"key_id":
"0000000000000000002000000000001003aa8ce6a4fea3e466620134bea9510a1000000000
000000",
"key_server": "keyserver1.com:5698",
"key_tag": "Authentication-Key-01",
"node": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "node1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
}
====
```

== Response

Status: 202, Accepted

```

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

|job
|link:#job_link[job_link]
a|

|===

.Example response
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
====

== Error

```

## Status: Default

### ONTAP Error Response Codes

```

|===
| Error Code | Description
| 65536083
| Internal error. Failed to restore the authentication key.
| 65536843
| The key management server is not configured for the SVM.
| 65536855

```

```
| Internal error. Failed to restore the volume encryption key.
```

```
| 65538500
```

```
| This command only restores keys from primary key servers.
```

```
|===
```

```
[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

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

|===

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

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

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

|name

```

```

|string
a|

|uuid
|string
a|

|===

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

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

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

|key_id
|string
a|Key identifier.

|key_server
|string
a|External key server for key management.

|key_tag
|string
a|Additional information associated with the key.

|node
|link:#node[node]
a|

|===

[#job_link]

```



```

[.api-collapsible-fifth-title]
job_link

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

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

|uuid
|string
a|The UUID of the asynchronous job that is triggered by a POST, PATCH, or
DELETE operation.

|===

[#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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