



View security key managers

ONTAP 9.11.1 REST API reference

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

= The call:

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

= The response:

```
{  
  "security_key_manager": {  
    "uuid": "f4f98a48-8a5c-c548-cd03-c6335f5803a8"  
  },  
  "node": {  
    "uuid": "00000000-0000-0000-0000-000000000000"  
  },  
  "key_id":  
  "000000000000000002000000000005009ad4da8fea2cafe2bed803078b780ebe00000000  
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"
  }
}
}
```

```
[[IDe3albec2badd187b25839e20a8866513]]
= 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

|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"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "crn": "CRN=v1:bluemix:public:containers-kubernetes",
    "encryption_algorithm": "XTS-AES-256",
    "key_id":
"00000000000000000000000000000000100000000000000123456789asdfghjklqwertyuio123456780000000000
0000090",
    "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
=====

```

```
[[ID4a4ad8eb1d3c86977d4392d994a0e644]]
```

= 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":
"000000000000000000000000000000001000000000000123456789asdfghjklqwertyuio123456780000000000
0000090",
  "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
====

```

```
:leveloffset: -1
```

```
:leveloffset: -1
```

```
<<<
```

```
*Copyright information*
```

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