NetApp

View security key managers

ONTAP 9.12.1 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/00000000000000002000000000005009ad4da8fea2cafe2bed803078b780ebe000000
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":
"00000000000000002000000000005009ad4da8fea2cafe2bed803078b780ebe000000000
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/00000000000000002000000000005009ad4da8fea2cafe2bed803078b780ebe000000
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":
"000000000000000002000000000001003d5c5f8c497e8e36aa80566e08749a3d000000000
0000000",
      "key_type": "nse_ak"
    },
    {
      "key_server": "10.225.89.34:5696",
      "key_id":
"0000000000000000020000000000100c2dce9a3a15aeb8480db8d49c17d056c000000000
0000000",
      "key_type": "nse_ak"
    }
  ],
  "num_records": 2
}




[[ID1bcf94295a76e1f1a645bf388c56eebf]]
= 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

|encryption_algorithm
|string
|query
|False
a|Filter by encryption_algorithm

* Introduced in: 9.12


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

* Introduced in: 9.12


|key_id
```

|string
|query
|False
a|Filter by key_id

* 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

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

* Introduced in: 9.12

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

* Introduced in: 9.12

|key_type
|string
|query

```
|False
a|Filter by key_type

* Introduced in: 9.12


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

* Introduced in: 9.12


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

* Introduced in: 9.12


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

* Introduced in: 9.12


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

* 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":
"00000000000000001000000000000123456789asdfghjklqwertyuio12345678000000000
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

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|

|===


[#_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 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.


|===


[#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
====
```

```
[[ID7a4e53cdc723a21b65418bdc6f4b5726]]
= 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":
"00000000000000001000000000000123456789asdfghjklqwertyuio12345678000000000
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
```

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


<<<
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