



# Manage keystores

REST API reference

NetApp

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# Manage keystores

## Manage keystores

### Overview

A keystore describes a key-manager configuration, specifically the type of key-manager and whether the configuration is currently enabled for the configured SVM.

### Examples

#### Retrieving information for all configured key managers

The following example shows how to retrieve information about all configured key managers.

```
# The API:  
GET /api/security/key-stores  
  
# The call:  
curl -X GET 'https://<mgmt-ip>/api/security/key-stores?fields=*' -H  
'accept: application/hal+json'  
  
# The response:  
{  
  "records": [  
    {  
      "type": "okm",  
      "configuration": {  
        "name": "default",  
        "uuid": "ec8711c9-4e9f-11ef-b477-005056bb677e"  
      },  
      "uuid": "ec8711c9-4e9f-11ef-b477-005056bb677e",  
      "enabled": true,  
      "location": "onboard",  
      "scope": "cluster",  
      "state": "active"  
    },  
    {  
      "type": "kmip",  
      "configuration": {  
        "name": "default",  
        "uuid": "d81f43cd-4e9f-11ef-b477-005056bb677e"  
      },  
      "uuid": "d81f43cd-4e9f-11ef-b477-005056bb677e",  
    }  
  ]  
}
```

```
        "enabled": false,
        "location": "external",
        "scope": "cluster"
    },
    {
        "type": "kmip",
        "configuration": {
            "name": "default",
            "uuid": "7da22185-4ea0-11ef-b477-005056bb677e"
        },
        "uuid": "7da22185-4ea0-11ef-b477-005056bb677e",
        "enabled": true,
        "location": "external",
        "scope": "svm",
        "svm": {
            "name": "vs0",
            "uuid": "3cbe691b-4ea0-11ef-b477-005056bb677e"
        },
        "state": "active"
    }
],
"num_records": 3
}
```

## Retrieving a specific keystore by its UUID

The following example shows how to retrieve information about a specific keystore.

```

# The API:
GET /api/security/key-stores/{uuid}

# The call:
curl -X GET 'https://<mgmt-ip>/api/security/key-stores/33421d82-0a8d-11ec-
ae88-005056bb5955?fields=' -H 'accept: application/hal+json'

# The response:
{
  "type": "okm",
  "configuration": {
    "name": "default",
    "uuid": "ec8711c9-4e9f-11ef-b477-005056bb677e",
  },
  "uuid": "ec8711c9-4e9f-11ef-b477-005056bb677e",
  "enabled": true,
  "location": "onboard",
  "scope": "cluster",
  "state": "active"
}

```

## Enabling a specific keystore configuration

The following example shows how to enable a specific keystore configuration.

```

# The API:
PATCH /api/security/key-stores/{uuid}

# The call:
curl -X PATCH 'https://<mgmt-ip>/api/security/key-stores/33421d82-0a8d-
11ec-ae88-005056bb5955' -H 'accept: application/hal+json' -d "{
  \"enabled\": true }"

```

## Deleting a specific keystore configuration

The following example shows how to delete a specific keystore configuration. Only an inactive configuration can be deleted.

```
# The API:
DELETE /api/security/key-stores/{uuid}

# The call:
curl -X DELETE 'https://<mgmt-ip>/api/security/key-stores/33421d82-0a8d-11ec-ae88-005056bb5955' -H 'accept: application/hal+json'
```

## Retrieve keystores

GET /security/key-stores

**Introduced In:** 9.10

Retrieves keystores.

### Related ONTAP commands

- `security key-manager show-key-store`
- `security key-manager keystore show`

### Parameters

Name	Type	In	Required	Description
configuration.uuid	string	query	False	Filter by configuration.uuid <ul style="list-style-type: none"> <li>• Introduced in: 9.14</li> </ul>
configuration.name	string	query	False	Filter by configuration.name <ul style="list-style-type: none"> <li>• Introduced in: 9.14</li> </ul>
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
state	string	query	False	Filter by state <ul style="list-style-type: none"> <li>• Introduced in: 9.16</li> </ul>

Name	Type	In	Required	Description
enabled	boolean	query	False	Filter by enabled <ul style="list-style-type: none"> <li>• Introduced in: 9.14</li> </ul>
type	string	query	False	Filter by type
location	string	query	False	Filter by location
uuid	string	query	False	Filter by uuid
scope	string	query	False	Filter by scope <ul style="list-style-type: none"> <li>• Introduced in: 9.14</li> </ul>
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_timeout	integer	query	False	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. <ul style="list-style-type: none"> <li>• Default value: 15</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>

Name	Type	In	Required	Description
order_by	array[string]	query	False	Order results by specified fields and optional [asc]

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records.
records	array[ <a href="#">security_keystore</a> ]	

## Example response

```
{  
  "_links": {  
    "next": {  
      "href": "/api/resourcelink"  
    },  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "num_records": 1,  
  "records": [  
    {  
      "configuration": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        },  
        "name": "default",  
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563434"  
      },  
      "location": "string",  
      "scope": "string",  
      "state": "string",  
      "svm": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        },  
        "name": "svml1",  
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
      },  
      "type": "string",  
      "uuid": "string"  
    }  
  ]  
}
```

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
13434920	SVM does not exist.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Name	Type	Description
error	<a href="#">returned_error</a>	

## Example error

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

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

configuration

Security keystore object reference.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Name of the configuration.
uuid	string	Keystore UUID.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

security\_keystore

Name	Type	Description
configuration	configuration	Security keystore object reference.
enabled	boolean	Indicates whether the configuration is enabled.
location	string	Indicates whether the keystore is onboard or external. * 'onboard' - Onboard Key Database * 'external' - External Key Database, including KMIP and Cloud Key Management Systems
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
state	string	State of the keystore: * 'active' - The key manager is active and serving new and existing keys. * 'mixed' - The key manager has a mixed configuration. New keys can't be created. * 'svm_kek_rekey' - An SVM key encryption key (KEK) rekey is in progress. New keys can't be created. * 'blocked' - The key manager is blocked and cannot serve new and existing keys. * 'switching' - Switching the enabled key manager keystore configuration. Some operations are blocked. * 'initializing' - The key manager is being initialized. All operations are blocked. * 'disabling' - The key manager is being disabled. All operations are blocked.
svm	svm	SVM, applies only to SVM-scoped objects.

Name	Type	Description
type	string	Type of keystore that is configured: * 'okm' - Onboard Key Manager * 'kmip' - External Key Manager * 'akv' - Azure Key Vault Key Management Service * 'gcp' - Google Cloud Platform Key Management Service * 'aws' - Amazon Web Service Key Management Service * 'ikp' - IBM Key Protect Key Management Service * 'barbican' - Barbican Key Management Service
uuid	string	

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### returned\_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Delete an inactive keystore configuration

DELETE /security/key-stores/{uuid}

**Introduced In:** 9.14

Deletes an inactive keystore configuration.

## Related ONTAP commands

- `security key-manager keystore delete`

## Parameters

Name	Type	In	Required	Description
uuid	string	path	True	

## Response

```
Status: 200, Ok
```

## Error

```
Status: Default
```

### ONTAP Error Response Codes

Error Code	Description
262155	This operation requires an effective cluster version of 9.14.0 or later.
65538905	The keystore configuration is currently enabled and cannot be deleted.
65538907	The method is not yet supported for deleting the given UUID's type of configuration.
65538908	The specified keystore configuration UUID either does not exist or corresponds to a keystore configuration that is not supported by this operation.
65539521	An effective cluster version of ONTAP 9.16.1 or later is required to delete an inactive key manager on the admin SVM.
65539522	This command does not support disabling key manager configurations with the specified keystore type on the admin SVM.
65539593	Cannot delete an inactive key manager configuration while the keystore is in the switching state.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Name	Type	Description
error	<a href="#">returned_error</a>	

## Example error

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

## Definitions

### See Definitions

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned\_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

# Retrieve keystore configuration details with the specified UUID

GET /security/key-stores/{uuid}

**Introduced In:** 9.14

Retrieves details of the keystore configuration with the specified UUID.

## Related ONTAP commands

- `security key-manager keystore show`

## Parameters

Name	Type	In	Required	Description
uuid	string	path	True	Keystore configuration UUID
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
configuration	configuration	Security keystore object reference.
enabled	boolean	Indicates whether the configuration is enabled.
location	string	Indicates whether the keystore is onboard or external. * 'onboard' - Onboard Key Database * 'external' - External Key Database, including KMIP and Cloud Key Management Systems
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".

Name	Type	Description
state	string	State of the keystore: <ul style="list-style-type: none"> <li>* 'active' - The key manager is active and serving new and existing keys.</li> <li>* 'mixed' - The key manager has a mixed configuration. New keys can't be created.</li> <li>* 'svm_kek_rekey' - An SVM key encryption key (KEK) rekey is in progress. New keys can't be created.</li> <li>* 'blocked' - The key manager is blocked and cannot serve new and existing keys.</li> <li>* 'switching' - Switching the enabled key manager keystore configuration. Some operations are blocked.</li> <li>* 'initializing' - The key manager is being initialized. All operations are blocked.</li> <li>* 'disabling' - The key manager is being disabled. All operations are blocked.</li> </ul>
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
type	string	Type of keystore that is configured: <ul style="list-style-type: none"> <li>* 'okm' - Onboard Key Manager</li> <li>* 'kmip' - External Key Manager</li> <li>* 'akv' - Azure Key Vault Key Management Service</li> <li>* 'gcp' - Google Cloud Platform Key Management Service</li> <li>* 'aws' - Amazon Web Service Key Management Service</li> <li>* 'ikp' - IBM Key Protect Key Management Service</li> <li>* 'barbican' - Barbican Key Management Service</li> </ul>
uuid	string	

## Example response

```
{  
  "configuration": {  
    "_links": {  
      "self": {  
        "href": "/api/resourcelink"  
      }  
    },  
    "name": "default",  
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563434"  
  },  
  "location": "string",  
  "scope": "string",  
  "state": "string",  
  "svm": {  
    "_links": {  
      "self": {  
        "href": "/api/resourcelink"  
      }  
    },  
    "name": "svml1",  
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
  },  
  "type": "string",  
  "uuid": "string"  
}
```

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
65539523	Internal error. The keymanager_config table is missing.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Name	Type	Description
error	<a href="#">returned_error</a>	

## Example error

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

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	href	

configuration

Security keystore object reference.

Name	Type	Description
_links	_links	
name	string	Name of the configuration.
uuid	string	Keystore UUID.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned\_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Enable a keystore configuration

PATCH /security/key-stores/{uuid}

**Introduced In:** 9.14

Enables a keystore configuration

### Related ONTAP commands

- security key-manager keystore enable
- security key-manager keystore disable

### Parameters

Name	Type	In	Required	Description
uuid	string	path	True	Keystore configuration UUID

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"> <li>• Default value: 0</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>

## Request Body

Name	Type	Description
configuration	configuration	Security keystore object reference.
enabled	boolean	Indicates whether the configuration is enabled.
location	string	Indicates whether the keystore is onboard or external. * 'onboard' - Onboard Key Database * 'external' - External Key Database, including KMIP and Cloud Key Management Systems

Name	Type	Description
state	string	<p>State of the keystore:</p> <ul style="list-style-type: none"> <li>* 'active' - The key manager is active and serving new and existing keys.</li> <li>* 'mixed' - The key manager has a mixed configuration. New keys can't be created.</li> <li>* 'svm_kek_rekey' - An SVM key encryption key (KEK) rekey is in progress. New keys can't be created.</li> <li>* 'blocked' - The key manager is blocked and cannot serve new and existing keys.</li> <li>* 'switching' - Switching the enabled key manager keystore configuration. Some operations are blocked.</li> <li>* 'initializing' - The key manager is being initialized. All operations are blocked.</li> <li>* 'disabling' - The key manager is being disabled. All operations are blocked.</li> </ul>
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
type	string	<p>Type of keystore that is configured:</p> <ul style="list-style-type: none"> <li>* 'okm' - Onboard Key Manager</li> <li>* 'kmip' - External Key Manager</li> <li>* 'akv' - Azure Key Vault Key Management Service</li> <li>* 'gcp' - Google Cloud Platform Key Management Service</li> <li>* 'aws' - Amazon Web Service Key Management Service</li> <li>* 'ikp' - IBM Key Protect Key Management Service</li> <li>* 'barbican' - Barbican Key Management Service</li> </ul>
uuid	string	

## Example request

```
{  
  "configuration": {  
    "name": "default",  
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563434"  
  },  
  "location": "string",  
  "state": "string",  
  "svm": {  
    "name": "svml",  
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
  },  
  "type": "string",  
  "uuid": "string"  
}
```

## Response

Status: 200, Ok

Name	Type	Description
job	job_link	

## Example response

```
{  
  "job": {  
    "uuid": "string"  
  }  
}
```

## Response

Status: 202, Accepted

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
262155	This operation requires an effective cluster version of 9.14.0 or later.
65536203	Internal error. Failed to generate SVM key. Cluster key database is not initialized.
65536204	Internal error. Failed to generate SVM key. Cluster key encryption key is not found.
65536207	Internal error. Failed to store SVM key.
65536212	Internal error. Failed to delete SVM volume key.
65536217	Internal error. Failed to delete key from cryptomod.
65536602	Cannot perform enable/switch while nodes are out of quorum.
65536856	No external key management server configured for SVM.
65536882	Internal error. UUID is missing for the volume.
65536883	Internal error. Volume encryption key is missing.
65536884	Internal error. Volume encryption key is invalid for the volume.
65536889	Internal error. The volume has an invalid encryption blob.
65536890	Internal error. Failed to generate VDEK blob.
65536973	Internal error. Volume DSID is missing for the volume.
65536987	One or more key servers are unavailable.
65537527	Internal error. Failed to rewrap SVM key encryption key.
65537533	Internal error. Failed to unwrap SVM key encryption key.
65537605	Failed to establish connectivity with the cloud key management service.
65538908	The specified keystore configuration UUID either does not exist or corresponds to a keystore configuration that is not supported by this operation.
65538909	A value for enabled is required.
65538910	Disabling an enabled configuration through this method is currently not supported.

Error Code	Description
65539200	The key custodian was not provided with an external key value store.
65539201	Failed to encrypt.
65539205	This command does not support enabling key manager configurations with the specified keystore type.
65539206	The SVM associated with the supplied keystore UUID already has a keystore configuration enabled. This command does not support migrating from configurations of that keystore type".
65539207	The specified keystore configuration does not exist.
65539212	Cannot switch the enabled keystore configuration when it is not in the 'active' or 'switching' state.
65539218	The specified keystore configuration is already enabled.
65539222	Switching between configurations of different keystore types is not supported for data SVMs.
65539416	Internal error. Failed to parse key value store response.
65539442	Internal error. Failed to generate AES blob.
65539444	Internal error. Failed to update the VDEK blob.
65539513	An effective cluster version of ONTAP 9.16.1 or later is required to enable an inactive key manager on the admin SVM.
65539514	This command does not support enabling key manager configurations with the specified keystore type on the admin SVM.
65539515	Cannot switch keystore types on the admin SVM. The keystore type for the invalid configuration must be OKM and the enabled configuration must be KMIP, or vice versa.
65539518	Internal error. Cannot find the enabled configuration.
65539520	Cannot enable the Onboard Key Manager on the admin SVM because an inactive Onboard Key Manager already exists on the admin SVM.
65539534	Cannot switch admin SVM Key Manager when system root volumes are present.
65539535	Failed to find unwrapped key on any nodes.
65539536	Internal error. Failed to find the existing wrapped key blob for the volume.
65539538	SVM-KEK not created for the SVM.

Error Code	Description
65539539	SVM-KEK not restored for SVM.
65539583	Cannot switch to the Onboard Key Manager when the external key manager has a policy associated with it
65539585	Cannot enable an external key manager on the admin SVM because an inactive external key manager already exists on the admin SVM.
65539590	Cannot switch to the Onboard Key Manager if there are more than two NSE-AKs in the cluster.
65539591	Cannot switch to the Onboard Key Manager if there are fewer than two NSE-AKs in the cluster.
65539622	CKEK not restored for SVM.
65539704	The key manager cannot be configured because the SVM has NAE volumes.
65539837	The key manager configured does not have any volumes to migrate.
65539838	Cannot migrate to a cloud key manager when the external key manager has a policy associated with it.
65539839	Cannot migrate to a cloud key manager when the key manager is not in a mixed state.
65539840	Failed to clean up the keys stored on the external key servers.
65539842	Failed to restore the SVM-KEK.
65539845	Cannot migrate SVM volumes to the Onboard Key Manager when the key manager is not in the mixed or active state.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

configuration

Security keystore object reference.

Name	Type	Description
name	string	Name of the configuration.
uuid	string	Keystore UUID.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

security\_keystore

Name	Type	Description
configuration	configuration	Security keystore object reference.
enabled	boolean	Indicates whether the configuration is enabled.
location	string	Indicates whether the keystore is onboard or external. * 'onboard' - Onboard Key Database * 'external' - External Key Database, including KMIP and Cloud Key Management Systems

Name	Type	Description
state	string	<p>State of the keystore:</p> <ul style="list-style-type: none"> <li>* 'active' - The key manager is active and serving new and existing keys.</li> <li>* 'mixed' - The key manager has a mixed configuration. New keys can't be created.</li> <li>* 'svm_kek_rekey' - An SVM key encryption key (KEK) rekey is in progress. New keys can't be created.</li> <li>* 'blocked' - The key manager is blocked and cannot serve new and existing keys.</li> <li>* 'switching' - Switching the enabled key manager keystore configuration. Some operations are blocked.</li> <li>* 'initializing' - The key manager is being initialized. All operations are blocked.</li> <li>* 'disabling' - The key manager is being disabled. All operations are blocked.</li> </ul>
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
type	string	Type of keystore that is configured: <ul style="list-style-type: none"> <li>* 'okm' - Onboard Key Manager</li> <li>* 'kmip' - External Key Manager</li> <li>* 'akv' - Azure Key Vault Key Management Service</li> <li>* 'gcp' - Google Cloud Platform Key Management Service</li> <li>* 'aws' - Amazon Web Service Key Management Service</li> <li>* 'ikp' - IBM Key Protect Key Management Service</li> <li>* 'barbican' - Barbican Key Management Service</li> </ul>
uuid	string	

#### job\_link

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

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned\_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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