



View and update key manager configurations

REST API reference

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View and update key manager configurations

View and update key manager configurations

Overview

Retrieves or modifies the key management configuration options. The following operations are supported:

- GET
- PATCH

Examples

Retrieving cluster-level key manager configurations

The following example shows how to retrieve cluster-level manager configurations.

```

# The API:
GET /api/security/key-manager-configs

# The call:
curl -X GET 'https://<mgmt-ip>/api/security/key-manager-configs' -H
'accept: application/hal+json'

# The response:
{
  "cc_mode_enabled": false,
  "health_monitor_polling_interval": 15,
  "cloud_kms_retry_count": 3,
  "health_monitor_policy": {
    "akv": {
      "enabled": true,
      "manage_volume_offline": true
    },
    "gcp": {
      "enabled": true,
      "manage_volume_offline": true
    },
    "aws": {
      "enabled": true,
      "manage_volume_offline": true
    },
    "ikp": {
      "enabled": true,
      "manage_volume_offline": true
    },
    "okm": {
      "enabled": true,
      "manage_volume_offline": true
    },
    "kmip": {
      "enabled": true,
      "manage_volume_offline": true
    }
  },
  "_links": {
    "self": {
      "href": "/api/security/key-manager-configs"
    }
  }
}

```

Updating the cluster-level key manager configurations

The following example shows how to modify the "health_monitor_polling_interval" and "cloud_kms_retry_count" fields.

```
# The API:  
PATCH /api/security/key-manager-configs  
  
# The call:  
curl -X PATCH 'https://<mgmt-ip>/api/security/key-manager-configs' -H  
'accept: application/hal+json' -d "{ \"health_monitor_polling_interval\" :  
\"20\", \"cloud_kms_retry_count\" : \"5\" }"
```

Updating the cluster-level key manager configurations

The following example shows how to modify the "cc_mode" and "passphrase" fields.

```
# The API:  
PATCH /api/security/key-manager-configs  
  
# The call:  
curl -X PATCH 'https://<mgmt-ip>/api/security/key-manager-configs' -H  
'accept: application/hal+json' -d "{ \"cc_mode_enabled\" : \"true\",  
\"passphrase\" : \"current_passphrase\" }"
```

Shows the keystore level health monitor policy

The following example shows how to retrieve the health monitor policies for Amazon Web Services and Google Cloud.

```

# The API:
GET /api/security/key-manager-configs

# The call:
curl -X GET 'https://<mgmt-ip>/api/security/key-manager-
configs?fields=health_monitor_policy.aws,health_monitor_policy.gcp' -H
'accept: application/hal+json'

# The response:
{
  "health_monitor_policy": {
    "gcp": {
      "enabled": false,
      "manage_volume_offline": false
    },
    "aws": {
      "enabled": false,
      "manage_volume_offline": false
    }
  },
  "_links": {
    "self": {
      "href": "/api/security/key-manager-configs"
    }
  }
}

```

Updates the keytore level health monitor policy

The following example shows how to modify the Amazon Web Services "enabled" field and the Google Cloud "manage_volume_offline" field of the health monitor policy.

```

# The API:
PATCH /api/security/key-manager-configs

# The call:
curl -X PATCH 'https://<mgmt-ip>/api/security/key-manager-configs' -H
'accept: application/hal+json' -d '{"health_monitor_policy": {"aws": {"enabled": "false"}, "gcp": {"manage_volume_offline": "false"}}}'

```

Retrieve key manager configurations

GET /security/key-manager-configs

Introduced In: 9.10

Retrieves key manager configurations. Retrieves the key manager health monitor policy (fields=health_monitor_policy).

Related ONTAP commands

- `security key-manager config show`
- `security key-manager health policy show`

Parameters

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	self_link	
cc_mode_enabled	boolean	Indicates whether the Common Criteria Mode configuration is enabled.
cloud_kms_retry_count	integer	Cloud key manager connection retry count. Supported value range of 0-10.
health_monitor_policy	health_monitor_policy	Manages the keystore configurations.
health_monitor_polling_interval	integer	Health Monitor Polling Period, in minutes. Supported value range of 15-30 minutes.
passphrase	string	Current cluster-wide passphrase. This is a required field when setting the cc_mode_enabled field value to true. This is not audited.

Example response

```
{  
  "_links": {  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "cloud_kms_retry_count": 3,  
  "health_monitor_polling_interval": 20,  
  "passphrase": "The cluster passphrase of length 64-256 ASCII  
  characters."  
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

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	

self_link

Name	Type	Description
self	href	

akv

Azure Key Vault Key Management Service policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

aws

Amazon Web Services Key Management Service policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

barbican

Barbican Key Management Service policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.

Name	Type	Description
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

gcp

Google Cloud Key Management Service policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

ikp

IBM Key Protect Key Management Service policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

kmip

External Key Manager policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

okm

Onboard Key Manager policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

health_monitor_policy

Manages the keystore configurations.

Name	Type	Description
akv	akv	Azure Key Vault Key Management Service policy options
aws	aws	Amazon Web Services Key Management Service policy options
barbican	barbican	Barbican Key Management Service policy options
gcp	gcp	Google Cloud Key Management Service policy options
ikp	ikp	IBM Key Protect Key Management Service policy options
kmip	kmip	External Key Manager policy options
okm	okm	Onboard Key Manager policy options

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.

Update key manager configurations

PATCH /security/key-manager-configs

Introduced In: 9.10

Updates key manager configurations. Updates the key manager health monitor policy.

Related ONTAP commands

- `security key-manager config modify`
- `security key-manager health policy modify`

Request Body

Name	Type	Description
cc_mode_enabled	boolean	Indicates whether the Common Criteria Mode configuration is enabled.
cloud_kms_retry_count	integer	Cloud key manager connection retry count. Supported value range of 0-10.
health_monitor_policy	health_monitor_policy	Manages the keystore configurations.
health_monitor_polling_interval	integer	Health Monitor Polling Period, in minutes. Supported value range of 15-30 minutes.
passphrase	string	Current cluster-wide passphrase. This is a required field when setting the cc_mode_enabled field value to true. This is not audited.

Example request

```
{  
  "cloud_kms_retry_count": 3,  
  "health_monitor_polling_interval": 20,  
  "passphrase": "The cluster passphrase of length 64-256 ASCII  
  characters."  
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
65536139	Cluster-wide passphrase is incorrect.
65536805	Common Criteria Mode requires an effective cluster version of ONTAP 9.4 or later.
65536806	Passphrase length error.
65536807	MetroCluster cannot be configured while in Common Criteria mode.
65536809	Common Criteria mode is disabled on the cluster. Contact technical support for assistance in enabling Common Criteria mode.
65537301	The Onboard Key Manager is not enabled.
65537302	The passphrase field is required when changing cc_mode_enabled to true.
65537303	Modifying polling period requires an effective cluster version of ONTAP 9.10 or later.
65537304	Unable to modify polling period because no external key management is configured on the cluster.
65538404	Modifying cloud keymanager retry count requires an effective cluster version of ONTAP 9.11 or later.

Error Code	Description
65539303	Modifying the health monitor policy requires an effective cluster version of 9.15 or later.
65539304	The health monitor policy feature is not enabled.

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	

self_link

akov

Azure Key Vault Key Management Service policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

aws

Amazon Web Services Key Management Service policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

barbican

Barbican Key Management Service policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

gcp

Google Cloud Key Management Service policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

ikp

IBM Key Protect Key Management Service policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

kmip

External Key Manager policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

okm

Onboard Key Manager policy options

Name	Type	Description
enabled	boolean	Indicates whether health monitor is enabled.
manage_volume_offline	boolean	Indicates whether the health monitor manages the volume offline operation.

health_monitor_policy

Manages the keystore configurations.

Name	Type	Description
akv	akv	Azure Key Vault Key Management Service policy options
aws	aws	Amazon Web Services Key Management Service policy options
barbican	barbican	Barbican Key Management Service policy options
gcp	gcp	Google Cloud Key Management Service policy options
ikp	ikp	IBM Key Protect Key Management Service policy options
kmip	kmip	External Key Manager policy options
okm	okm	Onboard Key Manager policy options

key_manager_config

Manages the various key manager configuration options.

Name	Type	Description
cc_mode_enabled	boolean	Indicates whether the Common Criteria Mode configuration is enabled.
cloud_kms_retry_count	integer	Cloud key manager connection retry count. Supported value range of 0-10.
health_monitor_policy	health_monitor_policy	Manages the keystore configurations.

Name	Type	Description
health_monitor_polling_interval	integer	Health Monitor Polling Period, in minutes. Supported value range of 15-30 minutes.
passphrase	string	Current cluster-wide passphrase. This is a required field when setting the cc_mode_enabled field value to true. This is not audited.

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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