

Configuring and Using Ranger KMS

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Configuring Ranger KMS High Availability

How to configure Ranger KMS high availability (HA) for Ranger KMS.

Configure High Availability for Ranger KMS with DB

Use the following steps to configure high availability for Ranger KMS with an associated keystore database.

Procedure

1. In Cloudera Manager, select Ranger KMS, then select Actions > Add Role Instances.

The screenshot shows the Cloudera Manager interface for the 'RANGER_KMS-1' cluster. The left sidebar contains navigation links for Clusters, Hosts, Diagnostics, Audits, Charts, Replication, Administration, and Private Cloud. The main panel displays the cluster's status, including Health Tests, Status Summary, and Health History. The 'Actions' dropdown menu is open, showing options like Start, Restart, Setup Ranger KMS Server Component, Stop, Add Role Instances (highlighted), Rename, Delete, Enter Maintenance Mode, and Create Ranger Plugin Audit Directory.

2. On the Assign Roles page, click Select hosts.

The screenshot shows the 'Assign Roles' page in Cloudera Manager. The page title is 'Add Role Instances to RANGER_KMS-1'. The page contains a section for 'Assign Roles' with instructions on specifying role assignments. A 'View By Host' button is visible. Below the instructions, there is a section for 'Server x 1' with a 'Select hosts' button highlighted.

- On the selected hosts page, select a backup Ranger KMS host. A Ranger KMS (RK) icon appears in the Added Roles column for the selected host. Click OK to continue.



Note: These steps show how to add one additional backup Ranger KMS host, but you can use the same procedure to add multiple Ranger KMS hosts.

2 Hosts Selected

Select hosts for a new or existing role. The host list is filtered to remove hosts that are not valid candidates; these include hosts that are unhealthy, members of other clusters, or have an incompatible version of the software installed on them.

Enter hostnames: host01, IP addresses or rack

<input type="checkbox"/>	Hostname	IP Address	Rack	Cores	Physical Memory	Existing Roles	Added Roles
<input checked="" type="checkbox"/>	cloudera71-21...	172.27.0.1	/default	80	251.6 GiB	AS, CCS, G, HB..., RS, DN, G, G, G, ID, KB, KC, KG, M, L, G, LS, RA, RT, RU, RK..., SRS, G, G, SM..., SR..., SR..., G, G, NM, ZS	RK...
<input checked="" type="checkbox"/>	cloudera71-21...	172.27.0.1	/default	32	251.6 GiB	RS, DN, G, G, ID, KB, RK..., KC, TS, L, G, G, G, SR..., G, NM	RK...
<input type="checkbox"/>	cloudera71-21...	172.27.0.2	/default	32	251.6 GiB	M, B, NN, NF..., SNN, G, HMS, G, HS2, LB, HS, KTR, ICS, ISS, G, KB, KC, LHBI, TS, L, G, AP, ES, HM, RM, SM, OS, SS, G, HS, G, G, JHS, RM, S	

1 - 3 of 3

Cancel OK

- The Assign Roles page is redisplayed with the new backup host. Click Continue.

Add Role Instances to RANGER_KMS-1

1 Assign Roles

2 Review Changes

Assign Roles

You can specify the role assignments for your new roles here.

You can also view the role assignments by host. [View By Host](#)

Server x (1 + 1 New)

cloudera71-21... cloudera71-21...

Back Continue

5. Review the settings on the Review Changes page, then click Continue.

CloudERA
Manager

7.3.0

Parcels

Running Commands









Support

admin

Assign Roles

2 Review Changes

Review Changes

Ranger KMS Master Key Password ranger.db.encrypt.key.password  ranger_kms_master_key_password	Ranger KMS Server Default Group ⓘ	ⓘ
Ranger KMS DB Auth Type ranger.ks.db.ssl.auth.type  ranger_ks_db_ssl_auth_type	Ranger KMS Server Default Group ⓘ <input checked="" type="radio"/> 1-way <input type="radio"/> 2-way	ⓘ
Ranger KMS Database SSL Certificate File ranger.ks.db.ssl.certificateFile  ranger_ks_db_ssl_certificateFile	Ranger KMS Server Default Group ⓘ	ⓘ
Ranger KMS DB SSL Enabled ranger.ks.db.ssl.enabled  ranger_ks_db_ssl_enabled	<input type="checkbox"/> Ranger KMS Server Default Group ⓘ	ⓘ
Ranger KMS DB SSL Required ranger.ks.db.ssl.required  ranger_ks_db_ssl_required	<input type="checkbox"/> Ranger KMS Server Default Group ⓘ	ⓘ
Ranger KMS DB SSL Verify Server Certificate ranger.ks.db.ssl.verifyServerCertificate  ranger_ks_db_ssl_verifyServerCertificate	<input type="checkbox"/> Ranger KMS Server Default Group ⓘ	ⓘ
Ranger KMS Keystore File ranger.ks.keystore.file  ranger_ks_keystore_file	Ranger KMS Server Default Group ⓘ	ⓘ
Ranger KMS Keystore Password ranger.ks.keystore.password  ranger_ks_keystore_password	Ranger KMS Server Default Group ⓘ	ⓘ
Ranger KMS Truststore File	Ranger KMS Server Default Group ⓘ	ⓘ

Back

Continue

- The screenshot displays the Cloudera Manager web interface. On the left is a dark sidebar with navigation links: Clusters, Hosts, Diagnostics, Audits, Charts, Replication, Administration, and Private Cloud. The main area shows the 'RANGER_KMS-1' entity under the 'Clusters' tab. A top banner indicates a warning: 'This entity is currently running with an outdated configuration. Restart the service (or the instance) for the changes to take effect.' Below this is a search bar and a 'Filters' toggle. A table lists the components of the Ranger KMS cluster:

Status	Role Type	State	Hostname	Commission State	Role Group
<input type="checkbox"/>	Ranger KMS Server	Stopped	d...@... .site	Commissioned	Ranger KMS Server Default Group
<input type="checkbox"/>	Ranger KMS Server	Started with Outdated Configuration	d...@... .site	Commissioned	Ranger KMS Server Default Group

On the left side of the main panel, there are expandable filter sections: STATUS (showing Stopped: 1, Good Health: 1), COMMISSION STATE, MAINTENANCE MODE, RACK ID, ROLE GROUP, ROLE TYPE, STATE, and HEALTH TEST.

7. In Cloudera Manager, select the Ranger service, click Ranger Admin Web UI, then log in as the Ranger KMS user (the default credentials are keyadmin/admin123). Click the Edit icon for the cm_kms service, then update the KMS URL property.

- Add the new KMS host using the following format:
kms://http@<kms_host1>;http@<kms_host2>:<kms_port>/kms
- The default port is 9292. For example:
kms://http@kms_host1;http@kms_host2:9292/kms
- If SSL is enabled, use https and port 9494. For example:
kms://http@kms_host1;https@kms_host2:9494/kms

Click Test Connection to confirm the settings, then click Save to save your changes.

The screenshot shows the 'Edit Service' page for the 'cm_kms' service in the Ranger Admin Web UI. The page is divided into two main sections: 'Service Details' and 'Config Properties'.

Service Details:

- Service Name ***: cm_kms
- Display Name**: cm_kms
- Description**: KMS repo
- Active Status**: ☒ Enabled ☐ Disabled
- Select Tag Service**: Select Tag Service (dropdown menu)

Config Properties:

- KMS URL ***: it.hwx.site;http@...:9292;kms-2.d...:9292;kms.root.hwx
- Username ***: keyadmin
- Password ***:

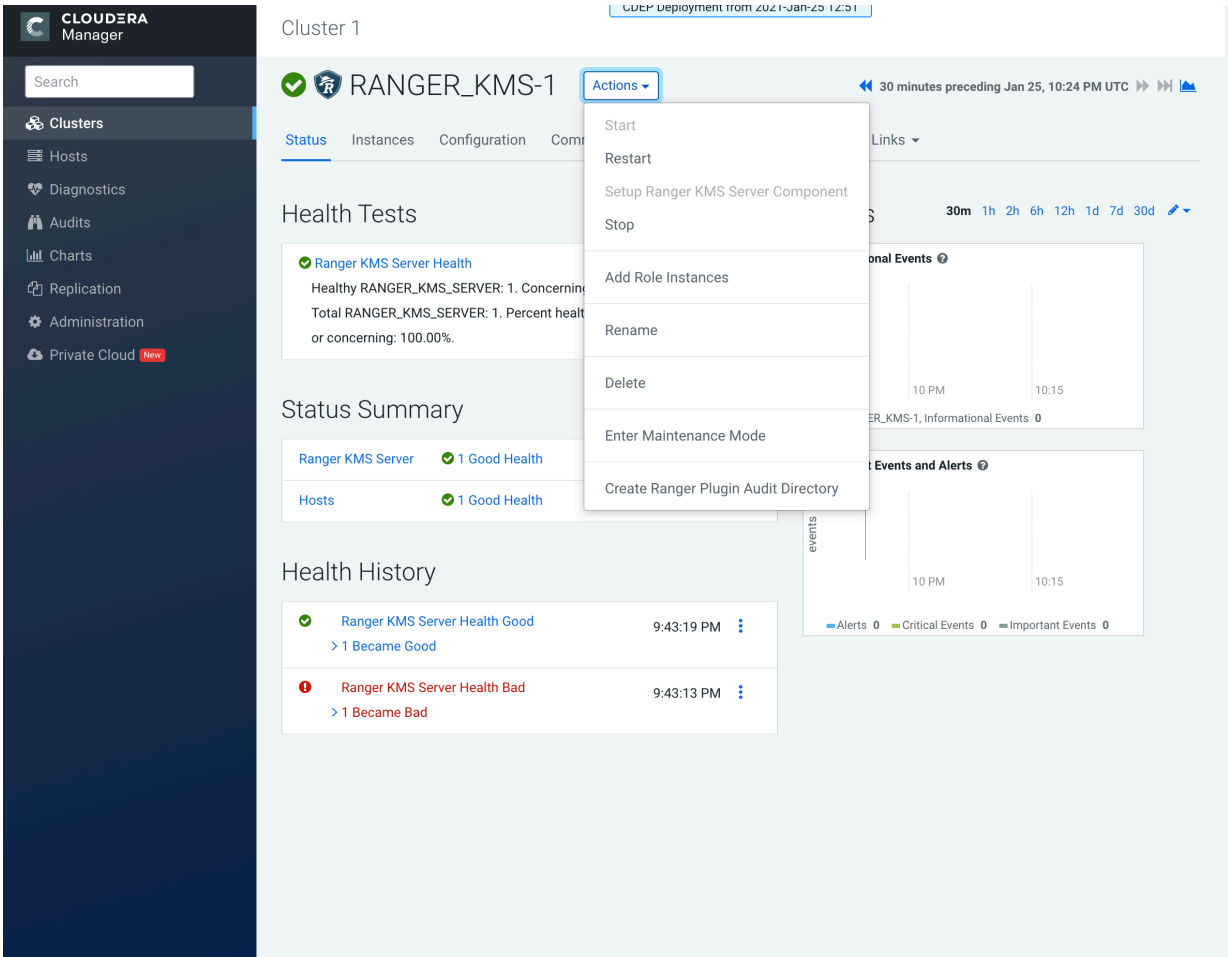
Add New Configurations:

Name	Value	
cluster.name	Cluster 1	<input type="button" value="x"/>
policy.download.auth.users	keyadmin,rangerkms	<input type="button" value="x"/>

Below the table is a '+' button to add more configurations.

At the bottom of the page, there is a 'Test Connection' button and a row of buttons: 'Save', 'Cancel', and 'Delete'.

8. In Cloudera Manager click the Ranger KMS service, then select Actions > Create Ranger Plugin Audit Directory.



9. In Cloudera Manager, select Ranger KMS, then click Configuration.

a) Use the Add (+) icons for the Ranger KMS Server Advanced Configuration Snippet (Safety Valve) for conf/kms-site.xml property to add the following properties, then click Save Changes.

- `hadoop.kms.authentication.zk-dt-secret-manager.enable = true`
- `hadoop.kms.authentication.zk-dt-secret-manager.zkConnectionString = <Zookeeper hostname>:2181`



Note: In a cluster with multiple ZK hosts, include them as a comma-separated list.
For example: `hadoop.kms.authentication.zk-dt-secret-manager.zkConnectionString = <ZK_hostname1>:2181,<ZK_hostname2>:2181,...,<ZK_hostnameN>:2181`.

- `hadoop.kms.authentication.zk-dt-secret-manager.znodeWorkingPath = <provide a znode working path other than /zkdt-sm to avoid collision>`

For example:

`hadoop.kms.authentication.zk-dt-secret-manager.znodeWorkingPath = testzkms`



Note: Do not put a leading slash at the beginning of the znode working path.

- `hadoop.kms.authentication.zk-dt-secret-manager.zkAuthType = sasl`
- `hadoop.kms.authentication.zk-dt-secret-manager.kerberos.keytab = {{CMF_CONF_DIR}}/ranger_kms.keytab`

The screenshot shows the Cloudera Manager interface for configuring Ranger KMS. The left sidebar contains navigation links for Clusters, Hosts, Diagnostics, Audits, Charts, Replication, Administration, and Private Cloud. The main content area is titled 'Ranger KMS Server Advanced Configuration Snippet (Safety Valve) for conf/kms-site.xml'. It features a 'Filters' section on the left with categories like SCOPE, CATEGORY, and STATUS. The right section displays a list of configuration properties with their names, values, and descriptions. The properties are:

- Name:** `hadoop.kms.authentication.zk-dt-secret-manager.enable`, **Value:** `true`
- Name:** `hadoop.kms.authentication.zk-dt-secret-manager.zkConnectionString`, **Value:** `hwx.site:2181`
- Name:** `hadoop.kms.authentication.zk-dt-secret-manager.znodeWorkingPath`, **Value:** `testzkms`
- Name:** `hadoop.kms.authentication.zk-dt-secret-manager.zkAuthType`, **Value:** `sasl`
- Name:** `hadoop.kms.authentication.zk-dt-secret-manager.kerberos.keytab`, **Value:** `((CMF_CONF_DIR)/ranger_kms.keytab)`

At the bottom, there is a 'Save Changes (CTRL+S)' button and a status bar indicating '1 Edited Value'.

10. Update the following Ranger KMS configuration properties, then click Save Changes.

- `hadoop.kms.authentication.signer.secret.provider = zookeeper`
- `hadoop.kms.authentication.signer.secret.provider.zookeeper.auth.type = sasl`

Cluster 1

CDEP Deployment from 2021-Feb-22 11:12

RANGER_KMS-1

Feb 25, 7:06 PM UTC

Status Instances **Configuration** Commands Charts Library Audits Quick Links

Q `hadoop.kms.authentication.signer.secret.provider` Filters Role Groups History and Rollback

Filters

▼ SCOPE

- RANGER_KMS-1 (Service-Wide) 0
- Ranger KMS Server 3

▼ CATEGORY

- Advanced 0
- Database 0
- Logs 0
- Main 3
- Monitoring 0
- Performance 0
- Ports and Addresses 0
- Resource Management 0
- Security 0
- Stacks Collection 0

▼ STATUS

- Error 0
- Warning 0
- Edited 2
- Non-default 2
- Has Overrides 0

Hadoop KMS Authentication Signer Secret Provider Ranger KMS Server Default Group Undo

`hadoop.kms.authentication.signer.secret.provider`

☐ random

☐ string

☒ zookeeper

Hadoop KMS Authentication Signer Secret Provider Zookeeper Path Ranger KMS Server Default Group

`hadoop.kms.authentication.signer.secret.provider.zookeeper.path`

`hadoop_kms_authentication_signer_secret_provider_zookeeper_path`

`/hadoop-kms/hadoop-auth-signature-secret`

Hadoop KMS Authentication Signer Secret Provider Zookeeper Auth Type Ranger KMS Server Default Group Undo

`hadoop.kms.authentication.signer.secret.provider.zookeeper.auth.type`

☐ none

☐ kerberos

☒ sasl

Per Page 25 1 - 25 of 142

2 Edited Values Reason for change: Modified Hadoop KMS Authentication Signer Secret Provider, Hadoop KMS Auth

Save Changes (CTRL+S)

11. Verify that the `hadoop.kms.cache.enable` property is set to the default value of `true` (the check box is selected).

CloudEra
Manager

Search

Clusters

Hosts

Diagnostics

Audits

Charts

Replication

Administration

Private Cloud New

Parcels

Running Commands

Support

admin

Cluster 1

CDEP Deployment from 2021-Feb-22 11:12

✓

RANGER_KMS-1

Actions

Feb 25, 9:39 PM UTC

Clusters

Hosts

Diagnostics

Audits

Charts

Replication

Administration

Private Cloud New

Parcels

Running Commands

Support

admin

Search

hadoop.kms.cache.enable

Filters Role Groups History and Rollback

Filters

SCOPE

RANGER_KMS-1 (Service-Wide) 0

Ranger KMS Server 1

CATEGORY

Advanced 0

Database 0

Logs 0

Main 1

Monitoring 0

Performance 0

Ports and Addresses 0

Resource Management 0

Security 0

Stacks Collection 0

STATUS

Error 0

Warning 0

Edited 0

Non-default 0

Has Overrides 0

Hadoop KMS Cache Enable

hadoop.kms.cache.enable

[hadoop_kms_cache.enable](#)

✓ Ranger KMS Server Default Group

Show All Descriptions

Per Page 25

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12. Click the Stale Configuration Restart icon.

The screenshot shows the Cloudera Manager interface for Cluster 1. The left sidebar contains navigation links for Clusters, Hosts, Diagnostics, Audits, Charts, Replication, Administration, Private Cloud, Parcels, Running Commands, Support, and a user profile 'admin'. The main panel displays the configuration for 'RANGER_KMS-1'. The 'Configuration' tab is selected, showing a search bar with the text 'hadoop.kms.cache.enable'. A 'Filters' sidebar on the left lists various categories and their counts. A 'Stale Configuration: Restart needed' tooltip is visible over the 'Actions' button. The main content area shows the 'Hadoop KMS Cache Enable' configuration with a checked 'Ranger KMS Server Default Group' checkbox. The bottom right has a 'Save Changes (CTRL+S)' button.

13. On the Stale Configurations page, click Restart Stale Services.

14. On the Restart Stale Services page, select the Re-deploy client configuration checkbox, then click Restart Now.

15. A progress indicator page appears while the services are being restarted. When the services have restarted, click Finish.

Configure High Availability for Ranger KMS with KTS

Use the following steps to configure high availability for Ranger KMS with Key Trustee Server as the backing key store.

Procedure

1. In Cloudera Manager, select Ranger KMS KTS, then select Actions > Add Role Instances.

The screenshot shows the Cloudera Manager interface for a cluster named 'RANGER_KMS_KTS-1'. The left sidebar contains navigation links for Clusters, Hosts, Diagnostics, Audits, Charts, Replication, Administration, Private Cloud, Parcels, Running Commands, Support, and an admin user. The main content area displays the cluster's status, including Health Tests, Status Summary, and Health History. The 'Actions' dropdown menu is open, showing options like Start, Restart, Create Backup, Stop, Add Role Instances (highlighted with a red box), Rename, Delete, Enter Maintenance Mode, Create Ranger Plugin Audit Directory, and Ranger KMS ACL import.

2. On the Assign Roles page, click Select hosts.

The screenshot shows the 'Assign Roles' page in Cloudera Manager. The page title is 'Add Role Instances to RANGER_KMS_KTS-1'. The left sidebar shows the 'Assign Roles' step selected. The main content area contains instructions on how to specify role assignments and a 'View By Host' button. Below this, it shows 'Ranger KMS Server with KTS × 1' and a 'Select hosts' button, which is highlighted with a red box.

- On the selected hosts page, select a backup Ranger KMS KTS host. A Ranger KMS KTS (RK) icon appears in the Added Roles column for the selected host. Click OK to continue.



Note: These steps show how to add one additional backup Ranger KMS KTS host, but you can use the same procedure to add multiple Ranger KMS KTS hosts.

2 Hosts Selected

Select hosts for a new or existing role. The host list is filtered to remove hosts that are not valid candidates; these include hosts that are unhealthy, members of other clusters, or have an incompatible version of the software installed on them.

Q Enter hostnames: host01, IP addresses or rack

<input type="checkbox"/>	Hostname	IP Address	Rack	Cores	Physical Memory	Existing Roles	Added Roles
<input type="checkbox"/>	dh...71... 1. dh...71...x.site	172.27.130.1	/default	32	251.6 GiB	AS, CCS, G, HB..., RS, DN, G, G, G, ID, KB, KC, KG, M, LS, RA, RT, RU, SRS, G, G, SM..., SM..., SR..., SR..., G, G, NM, ZS	
<input checked="" type="checkbox"/>	dh...71... 2. dh...71...x.site	172.27.130.71	/default	32	251.6 GiB	RS, DN, G, G, ID, KB, KC, TS, G, RK..., G, G, G, NM	RK...
<input checked="" type="checkbox"/>	dh...71... 3. dh...71...x.site	172.27.130.09	/default	32	503.6 GiB	M, B, NN, NF..., SNN, G, HMS, G, HS2, LB, HS, KTR, ICS, ISS, G, KB, KC, LHBI, TS, G, AP, ES, HM, RM	RK...

Cancel

OK

- The Assign Roles page is redisplayed with the new backup host. Click Continue.

CLUSTER

CLUSTER NAME

CLUSTER STATUS

CLUSTER TYPE

CLUSTER VERSION

CLUSTER ID

1 Assign Roles

2 Review Changes

Add Role Instances to RANGER_KMS_KTS-1

CDEP Deployment from 2021-Feb-22 13:32

Assign Roles

You can specify the role assignments for your new roles here.

You can also view the role assignments by host. [View By Host](#)

Ranger KMS Server with KTS × (1 + 1 New)

dh...71...-3.d...mskts...

Back

Continue

15

- Review the settings on the Review Changes page, then click Continue.

CLUSTER Deployment from 2021-Feb-22 13:32

Add Role Instances to RANGER_KMS_KTS-1

Assign Roles

2 Review Changes

Review Changes

Key Trustee Server Auth Code cloudera.trustee.keyprovider.auth	Ranger KMS Server with KTS Default Group
Active Key Trustee Server cloudera.trustee.keyprovider.hostname ame-ACTIVE	Ranger KMS Server with KTS Default Group	kts-cdep-server-1.vpc.cloudera.com
Passive Key Trustee Server cloudera.trustee.keyprovider.hostname ame-PASSIVE	Ranger KMS Server with KTS Default Group	kts-cdep-server-2.vpc.cloudera.com
Key Trustee Server Org Name cloudera.trustee.keyprovider.org	Ranger KMS Server with KTS Default Group	kts
Key Trustee Server Key Provider Pool Timeout cloudera.trustee.keyprovider.pool.a bandoned.timeout	Ranger KMS Server with KTS Default Group	5 minute(s)
Key Trustee Server Key Provider Max Connections cloudera.trustee.keyprovider.pool. max	Ranger KMS Server with KTS Default Group	5
Key Trustee Server Key Provider Pool Max Idle cloudera.trustee.keyprovider.pool. max.idle	Ranger KMS Server with KTS Default Group	2

Back Continue

- The new role instance appears on the Ranger KMS KTS page. If the new Ranger KMS with KTS instance was not started by the wizard, you can start the service by clicking Actions > Start in the Ranger KMS with Key Trustee Server service.

CLUSTER Deployment from 2021-Feb-22 13:32

Cluster 1

STATUS INSTANCES Configuration Commands

RANGER_KMS_KTS-1

This entity is currently running with an outdated configuration. (Click here to refresh the configuration) for the changes to take effect.

Last Updated: Feb 26, 7:16:40 PM UTC

Add Role Instances Role Groups

Filters

STATUS

Stopped 1

Good Health 1

COMMISSION STATE

MAINTENANCE MODE

RACK ID

ROLE GROUP

ROLE TYPE

STATE

HEALTH TEST

Actions

- Start
- Restart
- Create Backup
- Stop
- Add Role Instances
- Rename
- Delete
- Enter Maintenance Mode
- Create Ranger Plugin Audit Directory
- Ranger KMS ACL import

Hostname	Commission State	Role Group
dhoyle715kmskts-3.dhoyle715kmskts.root.hwx.site	Commissioned	Ranger KMS Server with KTS Default Group
dhoyle715kmskts-2.dhoyle715kmskts.root.hwx.site	Commissioned	Ranger KMS Server with KTS Default Group

1 - 2 of 2

7. If necessary, synchronize the KMS KTS private key.

Check the catalina.out file in the Ranger KMS KTS log directory for the following error:

```
java.io.IOException: Unable to verify private key match between KMS hosts.  
Verify private key files have been synced  
between all KMS hosts. Aborting to prevent data inconsistency.
```

To determine whether the KMS KTS private keys are different, compare the MD5 hash of the private keys. On each Ranger KMS KTS host, run the following command:

```
md5sum /var/lib/kms-keytrustee/keytrustee/.keytrustee/secring.gpg
```

If the output is different on both instances, Cloudera recommends following security best practices and transferring the private key using offline media, such as a removable USB drive. For convenience (for example, in a development or testing environment where maximum security is not required), you can copy the private key over the network by running the following rsync command on the original Ranger KMS KTS host:

```
rsync -zav /var/lib/kms-keytrustee/keytrustee/.keytrustee root@kms02.e  
xample.com:/var/lib/kms-keytrustee/keytrustee/.
```

8. Restart the Ranger KMS KTS service.

9. In Cloudera Manager, select the Ranger service, click Ranger Admin Web UI, then log in as the Ranger KMS user (the default credentials are keyadmin/admin123). Click the Edit icon for the cm_kms service, then update the KMS URL property.

- Add the new KMS host using the following format:
kms://http@<kms_kts_host1>;http@<kms_kts_host2>:<kms_port>/kms
- The default port is 9292. For example:
kms://http@kms_kts_host1;http@kms_kts_host2:9292/kms
- If SSL is enabled, use https and port 9494. For example:
kms://https@kms_kts_host1;https@kms_kts_host2:9494/kms

Click Test Connection to confirm the settings, then click Save to save your changes.

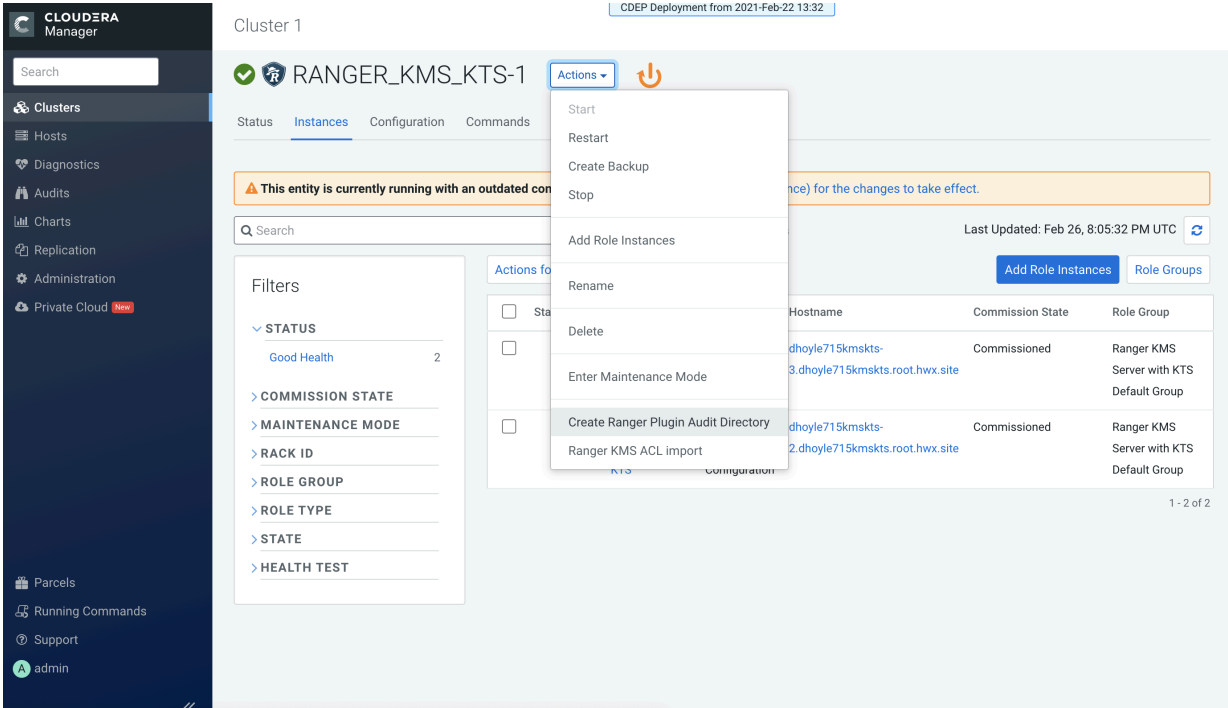
The screenshot shows the Ranger Admin Web UI interface for editing the cm_kms service. The top navigation bar includes links for Access Manager, Audit, Encryption, and Settings. The main content area is titled 'Edit Service' and contains the following elements:

- Active Status:** Radio buttons for 'Enabled' (selected) and 'Disabled'.
- Select Tag Service:** A dropdown menu with the text 'Select Tag Service'.
- Config Properties:**
 - KMS URL *:** A text input field containing 'jhoyier:rkmskts-3.djhoyier:rkmskts:root:mx.site:9292/kms'.
 - Username *:** A text input field containing 'keyadmin'.
 - Password *:** A password input field with masked characters '.....'.
- Add New Configurations:** A table with two columns: 'Name' and 'Value'.

Name	Value
policy.download.auth.users	keyadmin,rangerkms

 Below the table is a '+' button to add new configurations.
- Test Connection:** A button to verify the KMS URL settings.
- Bottom Bar:** Buttons for 'Save', 'Cancel', and 'Delete'.

10. In Cloudera Manager click the Ranger KMS KTS service, then select Actions > Create Ranger Plugin Audit Directory.



11. In Cloudera Manager, select Ranger KMS KTS, then click Configuration.

- a) Use the Add (+) icons for the Ranger KMS Server with KTS Advanced Configuration Snippet (Safety Valve) for conf/kms-site.xml property to add the following properties, then click Save Changes.

- `hadoop.kms.authentication.zk-dt-secret-manager.enable = true`
- `hadoop.kms.authentication.zk-dt-secret-manager.zkConnectionString = <Zookeeper hostname>:2181`
- `hadoop.kms.authentication.zk-dt-secret-manager.znodeWorkingPath = <provide a znode working path other than /zkdtsm to avoid collision>`

For example:

```
hadoop.kms.authentication.zk-dt-secret-manager.znodeWorkingPath = testzk kms
```



Note: Do not put a leading slash at the beginning of the znode working path.

- `hadoop.kms.authentication.zk-dt-secret-manager.zkAuthType = sasl`
- `hadoop.kms.authentication.zk-dt-secret-manager.kerberos.keytab = {{CMF_CONF_DIR}}/ranger_kms_kts.keytab`

CLOUDERA
Manager

Feb 27, 8:57 PM UTC

Status Instances Configuration Commands Charts Library Audits Quick Links ▾

Filters

▼ SCOPE

RANGER_KMS_KTS-1 (Service...)	0
Ranger KMS Server with KTS	1

▼ CATEGORY

Advanced	1
Logs	0
Main	0
Monitoring	0
Performance	0
Ports and Addresses	0
Resource Management	0
Security	0
Stacks Collection	0

▼ STATUS

❌ Error	0
⚠ Warning	0
✎ Edited	1
Non-default	1
Has Overrides	0

[Filters](#) [Role Groups](#) [History and Rollback](#)

Ranger KMS Server with KTS Advanced Configuration Snippet (Safety Valve) for conf/kms-site.xml

View as XML

Name	hadoop.kms.authentication.zk-dt-secret-manager.enable
Value	true
Description	<div><input type="text"/></div>
<input type="checkbox"/> Final	
Name	hadoop.kms.authentication.zk-dt-secret-manager.zkConnectionString
Value	dt://zk1:2181/hadoop-kms-site:2181
Description	<div><input type="text"/></div>
<input type="checkbox"/> Final	
Name	hadoop.kms.authentication.zk-dt-secret-manager.znodeWorkingPath
Value	testzkcms
Description	<div><input type="text"/></div>
<input type="checkbox"/> Final	
Name	hadoop.kms.authentication.zk-dt-secret-manager.zkAuthType
Value	sasl
Description	<div><input type="text"/></div>
<input type="checkbox"/> Final	
Name	hadoop.kms.authentication.zk-dt-secret-manager.kerberos.keytab
Value	{{CMF_CONF_DIR}}/ranger_kms_kts.keytab

1 Edited Value Reason for change:

Modified Ranger KMS Server with KTS Advanced Configuration Snippet (Safety Valve...

Save Changes (CTRL+S)

12. Update the following Ranger KMS configuration properties, then click Save Changes.

- `hadoop.kms.authentication.signer.secret.provider.zookeeper.auth.type = sasl`

Cluster 1

CDEP Deployment from 2021-Feb-22 13:32

RANGER_KMS_KTS-1

Feb 27, 9:45 PM UTC

Status Instances Configuration Commands Charts Library Audits Quick Links

hadoop.kms.authentication.signer.secret.provider.zookeeper.auth.type

Filters

SCOPE

RANGER_KMS_KTS-1 (Service)	0
Ranger KMS Server with KTS	1

CATEGORY

Advanced	0
Logs	0
Main	1
Monitoring	0
Performance	0
Ports and Addresses	0
Resource Management	0
Security	0
Stacks Collection	0

STATUS

Error	0
Warning	0
Edited	1
Non-default	1
Has Overrides	0

Hadoop KMS Authentication Signer Secret Provider Zookeeper Auth Type

Ranger KMS Server with KTS Default Group

none

kerberos

sasl

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1 Edited Value Reason for change: Modified Hadoop KMS Authentication Signer Secret Provider Zookeeper Auth Type

Save Changes (CTRL+S)

13. Click the Stale Configuration Restart icon.

Cluster 1

CDEP Deployment from 2021-Feb-22 13:32

RANGER_KMS_KTS-1

Feb 27, 9:48 PM UTC

Status Instances Configuration Commands **Stale Configuration. Restart needed** Links

hadoop.kms.authentication.signer.secret.provider.zookeeper.auth.type

Filters

SCOPE

RANGER_KMS_KTS-1 (Service)	0
Ranger KMS Server with KTS	1

CATEGORY

Advanced	0
Logs	0
Main	1
Monitoring	0
Performance	0
Ports and Addresses	0
Resource Management	0
Security	0
Stacks Collection	0

STATUS

Error	0
Warning	0
Edited	0
Non-default	1
Has Overrides	0

Hadoop KMS Authentication Signer Secret Provider Zookeeper Auth Type

Ranger KMS Server with KTS Default Group

none

kerberos

sasl

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Save Changes (CTRL+S)

14. On the Stale Configurations page, click Restart Stale Services.

15. On the Restart Stale Services page, select the Re-deploy client configuration checkbox, then click Restart Now.

- 16.** A progress indicator page appears while the services are being restarted. When the services have restarted, click Finish.