

# How to manage log rotation for Ranger services

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## Managing logging properties for Ranger services

How to configure properties that control log file rotation in each Ranger service.

All the Ranger services write out separate log files on the node where they are installed and started. Cluster administrators can monitor and manage the disk space used by Ranger services roles log file and configure log rotation to prevent log files from consuming too much disk space.

### How to manage logging properties for Ranger Admin

How to configure properties that control log file rotation in Ranger Admin.

#### About this task

Ranger Admin has log files stored on the node where it is installed and started from Cloudera Manager.

The log files

- ranger-admin-hostname.example.com.log
- ranger\_admin\_sql\_db\_patch.log
- ranger\_db\_patch.log

use the following properties to configure logging behavior.

**Table 1: Ranger Admin Logging Properties**

Property	Description	Default Value
Ranger Admin Log Directory	The path to the directory where the log files are saved.	/var/log/ranger/admin
Ranger Admin Logging Threshold	Logging level to limit the number of entries saved in the log file.	INFO
Ranger Admin Max Log Size	Maximum size for a log file before the log file rolls over into a new file.	200 MB
Ranger Admin Maximum Log File Backups	Maximum number of rolled-over log files to retain.	10

To manage log file configurations for Ranger Admin role instance:

#### Procedure

1. Go to Ranger Configuration .
2. Select the Category Logs filter.
3. Edit the values of any of the logging properties.
4. Click Save Changes.
5. Restart Ranger Admin.

### How to manage logging properties for Ranger Usersync

How to configure properties that control log file rotation for Ranger Usersync.

#### About this task

Ranger Usersync has log files stored on the node where it is installed and started from Cloudera Manager.

The log files

- ranger-usersync-hostname.example.com.log

use the following properties to configure logging behavior.

**Table 2: Ranger Usersync Logging Properties**

Property	Description	Default Value
Ranger Usersync Log Directory	The path to the directory where the log files are saved.	/var/log/ranger/usersync
Ranger Usersync Logging Threshold	Logging level to limit the number of entries saved in the log file.	INFO
Ranger Usersync Max Log Size	Maximum size for a log file before the log file rolls over into a new file.	200 MB
Ranger Usersync Maximum Log File Backups	Maximum number of rolled-over log files to retain.	10

To manage log file configurations for Ranger Usersync role instance:

#### Procedure

1. Go to Ranger Configuration .
2. Select the Category Logs filter.
3. Edit the values of any of the logging properties.
4. Click Save Changes.
5. Restart Ranger Usersync.

## How to manage logging properties for Ranger Tagsync

How to configure properties that control log file rotation for Ranger Tagsync.

#### About this task

Ranger Tagsync has log files stored on the node where it is installed and started from Cloudera Manager.

The log files

- tagsync.log

use the following properties to configure logging behavior.

**Table 3: Ranger Tagsync Logging Properties**

Property	Description	Default Value
Ranger Tagsync Log Directory	The path to the directory where the log files are saved.	/var/log/ranger/tagsync
Ranger Tagsync Logging Threshold	Logging level to limit the number of entries saved in the log file.	INFO
Ranger Tagsync Max Log Size	Maximum size for a log file before the log file rolls over into a new file.	200 MB
Ranger Tagsync Maximum Log File Backups	Maximum number of rolled-over log files to retain.	10

To manage log file configurations for Ranger Tagsync role instance:

**Procedure**

1. Go to Ranger Configuration .
2. Select the Category Logs filter.
3. Edit the values of any of the logging properties.
4. Click Save Changes.
5. Restart Ranger Tagsync.

**How to manage logging properties for Ranger KMS**

How to configure properties that control log file rotation in Ranger KMS.

**About this task**

Ranger KMS has log files stored on the node where it is installed and started from Cloudera Manager.

The log files

- ranger-kms-hostname.example.com-user.log
- kms-audit.log

use the following properties to configure logging behavior.

**Table 4: Ranger KMS Logging Properties**

Property	Description	Default Value
Ranger KMS Server Log Directory	The path to the directory where the log files are saved.	/var/log/ranger/kms
Ranger KMS Server Logging Threshold	Logging level to limit the number of entries saved in the log file.	INFO
Ranger KMS Server Max Log Size	Maximum size for a log file before the log file rolls over into a new file.	200 MB
Ranger KMS Server Maximum Log File Backups	Maximum number of rolled-over log files to retain.	10

To manage log file configurations for Ranger KMS Server role instance:

**Procedure**

1. Go to Ranger KMS service Configuration .
2. Select the Category Logs filter.
3. Edit the values of any of the logging properties.
4. Click Save Changes.
5. Restart Ranger KMS.

**How to manage logging properties for Ranger RMS**

How to configure properties that control log file rotation in Ranger RMS.

**About this task**

Ranger RMS has log files stored on the node where it is installed and started from Cloudera Manager.

The log files

- ranger-rms-hostname.example.com-user.log
- ranger-rms-perf-hostname.example.com-user.log

use the following properties to configure logging behavior.

**Table 5: Ranger RMS Logging Properties**

Property	Description	Default Value
Ranger RMS Server Log Directory	The path to the directory where the log files are saved.	/var/log/ranger/rms
Ranger RMS Server Logging Threshold	Logging level to limit the number of entries saved in the log file.	INFO
Ranger RMS Server Max Log Size	Maximum size for a log file before the log file rolls over into a new file.	200 MB
Ranger RMS Server Maximum Log File Backups	Maximum number of rolled-over log files to retain.	10

To manage log file configurations for Ranger RMS Server role instance:

#### Procedure

1. Go to Ranger RMS service Configuration .
2. Select the Category Logs filter.
3. Edit the values of any of the logging properties.
4. Click Save Changes.
5. Restart Ranger RMS.

## How to manage logging properties for Ranger RAZ

How to configure properties that control log file rotation in Ranger RAZ.

#### About this task

Ranger RAZ has log files stored on the node where it is installed and started from Cloudera Manager.

The log files

- ranger-raz-hostname.example.com-user.log
- ranger-raz-metrics.log
- audit.log

use the following properties to configure logging behavior.

**Table 6: Ranger RAZ Logging Properties**

Property	Description	Default Value
Ranger RAZ Server Log Directory	The path to the directory where the log files are saved.	/var/log/ranger/raz
Ranger RAZ Server Logging Threshold	Logging level to limit the number of entries saved in the log file.	INFO
Ranger RAZ Server Max Log Size	Maximum size for a log file before the log file rolls over into a new file.	200 MB
Ranger RAZ Server Maximum Log File Backups	Maximum number of rolled-over log files to retain.	10

To manage log file configurations for Ranger RAZ Server role instance:

### Procedure

1. Go to Ranger RAZ service Configuration .
2. Select the Category Logs filter.
3. Edit the values of any of the logging properties.
4. Click Save Changes.
5. Restart Ranger RAZ.

## Enabling selective debugging for Ranger Admin

You can limit the verbose log output for Ranger Admin by enabling (selective) debugging at the package level.

### About this task

When you enable the DEBUG level for Ranger Admin, a detailed verbose log is generated. Alternatively, you can enable debugging at a package level, so that only the package logs show detailed verbose logs.

### Procedure

1. From Cloudera Manager, go to Ranger Configuration .
2. In Search, type log4j\_
3. In Ranger Admin Logging Advanced Configuration Snippet (Safety Valve), add the following:

```
loggers=rangerPerf, rangerPatch, orgSpring, orgHibernate, jdbcSql,
jdbcSqlTiming, jdbcAudit, jdbcResult, jdbcConnection, comMchange,
rangeradmin
logger.rangeradmin.name=<PACKAGE_OR_FULLY_QUALIFIED_CLASS_NAME>
logger.rangeradmin.level=DEBUG
```

## Enabling selective debugging for RAZ

You can limit the verbose log output for RAZ by enabling (selective) debugging at the package level.

### About this task

When you enable the DEBUG level for RAZ, a detailed verbose log is generated. Alternatively, you can enable debugging at a package level, so that only the package logs show detailed verbose logs.

### Procedure

1. From Cloudera Manager, go to Ranger-RAZ Configuration .
2. In Search, type log4j\_
3. In Ranger Admin Logging Advanced Configuration Snippet (Safety Valve), add the following:

```
loggers=AUDIT, METRICS, RANGERRAZ
logger.RANGERRAZ.name=<PACKAGE_OR_FULLY_QUALIFIED_CLASS_NAME>
logger.RANGERRAZ.level=DEBUG
logger.RANGERRAZ.additivity=false
logger.RANGERRAZ.appenderRef.RANGERRAZ.ref=DRFA
```