# **Encryption reference**

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## **Auto-TLS Requirements and Limitations**

Reference information for Auto-TLS requirements, limitations, and component support.

### Requirements

- · You must install the Cloudera Manager Agent software on the Cloudera Manager Server host.
- You can enable auto-TLS using certificates created and managed by a Cloudera Manager certificate authority
  (CA), or certificates signed by a trusted public CA or your own internal CA. If you want to use a trusted
  public CA or your own internal CA, you must obtain all of the host certificates before enabling auto-TLS. For
  instructions on obtaining certificates from a CA, see "Manually Configuring TLS Encryption for Cloudera
  Manager">"On Each Cluster Host".

### Component support for Auto-TLS

The following CDP services support auto-TLS:

- Atlas
- Cloudera Manager Host Monitor Debug Interface
- Cloudera Manager Service Monitor Debug Interface
- · Cruise Control
- HBase
- · HDFS Client Configuration
- HDFS NameNode Web UI
- · Hive-on-Tez
- · HiveServer2
- HttpFS
- · Hue Client
- · Hue Load Balancer
- Hue Server
- Impala Catalog Server
- Impala Server
- Impala StateStore
- Java Keystore Key Management Server (KMS)
- Kafka Broker Server
- Kafka Mirrormaker
- Knox
- Kudu
- Livy
- Oozie
- Ozone
- · Phoenix
- Ranger
- Safenet Luna Hardware Security Modules (HSM) KMS
- · Schema Registry
- Solr
- Spark History Server
- · Streams Messaging Manager
- · Streams Replication Manager
- YARN Web UI
- Zeppelin

ZooKeeper

For unlisted CDP services, you must enable TLS manually. See the applicable component guide for more information.

### **Related Information**

Manually Configuring TLS Encryption for Cloudera Manager

# Rotate Auto-TLS Certificate Authority and Host Certificates

Your cluster security requirements may require that you rotate the auto-TLS CA and certificates.

### **About this task**



**Note:** When using a custom CA, you must first use the /cm/commands/addCustomCerts API command to replace the old certificates with new certificates before using the following procedure.

#### **Procedure**

- 1. Navigate to Administration Security . Click the Rotate Auto-TLS Certificates button to launch the wizard.
- 2. Complete the wizard.

## **Auto-TLS Agent File Locations**

The certificates, keystores, and password files generated by auto-TLS are stored in /var/lib/cloudera-scm-agent/agent-cert on each Cloudera Manager Agent.

### **Filenames**

### **Table 1: Auto-TLS Agent Files**

Filename	Description
cm-auto-global_cacerts.pem	CA certificate and other trusted certificates in PEM format
cm-auto-global_truststore.jks	CA certificate and other trusted certificates in JKS format
cm-auto-in_cluster_ca_cert.pem	CA certificate in PEM format
cm-auto-in_cluster_truststore.jks	CA certificate in JKS format
cm-auto-host_key_cert_chain.pem	Agent host certificate and private key in PEM format
cm-auto-host_cert_chain.pem	Agent host certificate in PEM format
cm-auto-host_key.pem	Agent host private key in PEM format
cm-auto-host_keystore.jks	Agent host private key in JKS format
cm-auto-host_key.pw	Agent host private key password file