

Installing Metering V2 Manually

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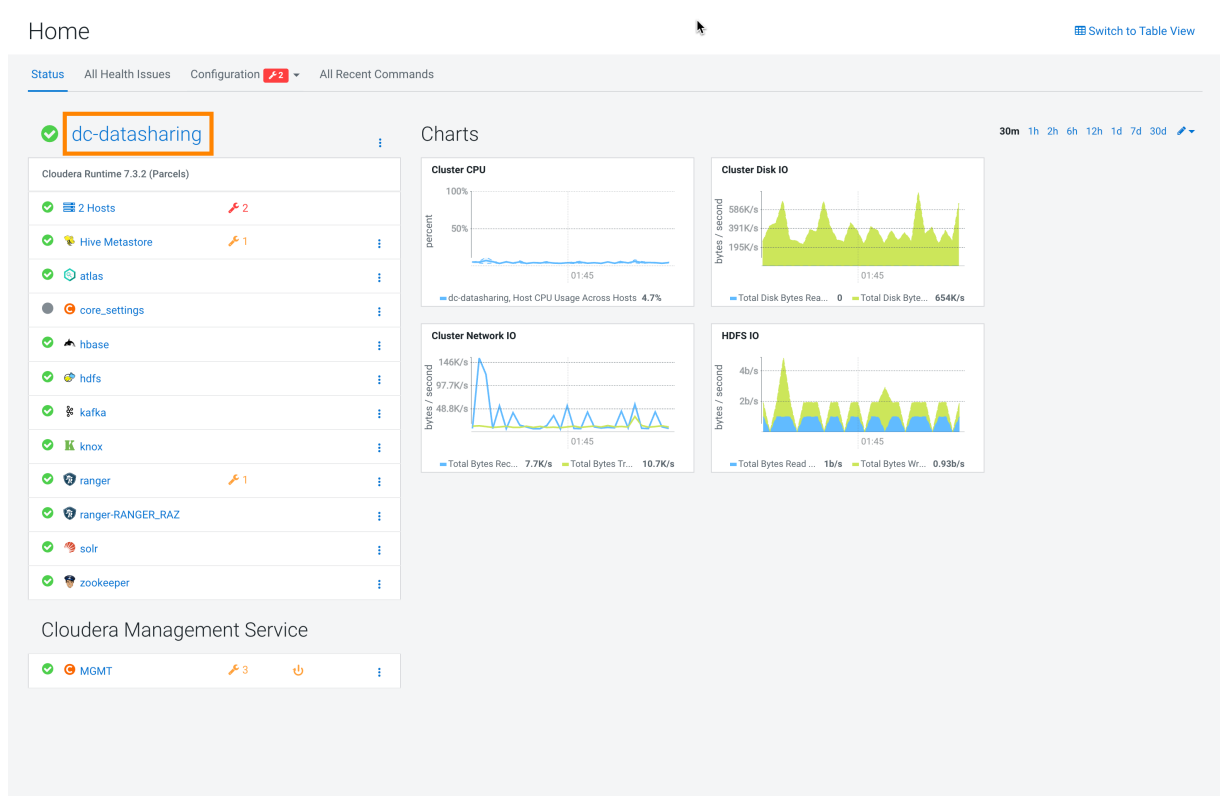
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Installing the Metering V2 Service

Learn how to install and configure the Metering V2 service to monetize API calls to Hive Metastore made by your clients.

Procedure

1. Open Cloudera Manager and open your cluster.



2. Click Action Add Service .

Home [Switch to Table View](#)

Status All Health Issues Configuration 2 All Recent Commands

dc-datasharing

Cloudera Runtime 7.3.2

- 2 Hosts
- Hive Metastore
- atlas
- core_settings
- hbase
- hdfs
- kafka
- knox
- ranger
- ranger-RANGE
- solr
- zookeeper

Add Service

- Start
- Stop
- Restart
- Rolling Restart
- Deploy Client Configuration
- Deploy Client Configuration and Refresh
- Refresh Cluster
- Inspect Hosts in Cluster
- Backup Keys from Keytrustee Server
- View Client Configuration URLs
- Enter Maintenance Mode
- View Maintenance Mode Status

Cloudera Management Service

MGMT 3 ⬇

Charts

Cluster CPU

Cluster Disk IO

Cluster Network IO

HDFS IO

3. Select Metering V2 in the resulting screen.

☐	Kudu	Apache Kudu is a data store that enables real-time analytics on fast changing data.
☐	Livy for Spark 3	Apache Livy for Spark 3 is a REST service used for deploying Spark3 applications.
☒	Metering V2	The Metering V2 service uploads metering data to Cloudera
☐	Omid	Apache Omid (Optimistically transaction Management In Datastores) is a flexible, reliable, high performant and scalable transactional framework that allows Big Data applications to execute ACID transactions on top of MVCC key/value NoSQL datastores.
☐	Oozie	Apache Oozie is a workflow coordination service to manage and schedule data processing jobs on your cluster.
☐	Phoenix	Apache Phoenix is a scale-out relational database that supports OLTP workloads and provides secondary indexes, materialized views, star schema support, and common HBase optimizations. Phoenix uses Apache HBase as the underlying data store.
☐	Profiler Manager	Profiler Manager is a service to configure or manage profilers. Serves aggregated statistics for assets and enables data discovery for AWS Glue and related services.

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4. In the **Assign Templates** step (the **Select Dependencies** step will already be done), click the Gateway text box and select the nodes where Hive Metastore is located. Once the hosts have been selected, click the Continue button.

Figure 1: Role assignment for Light Duty Data Lakes

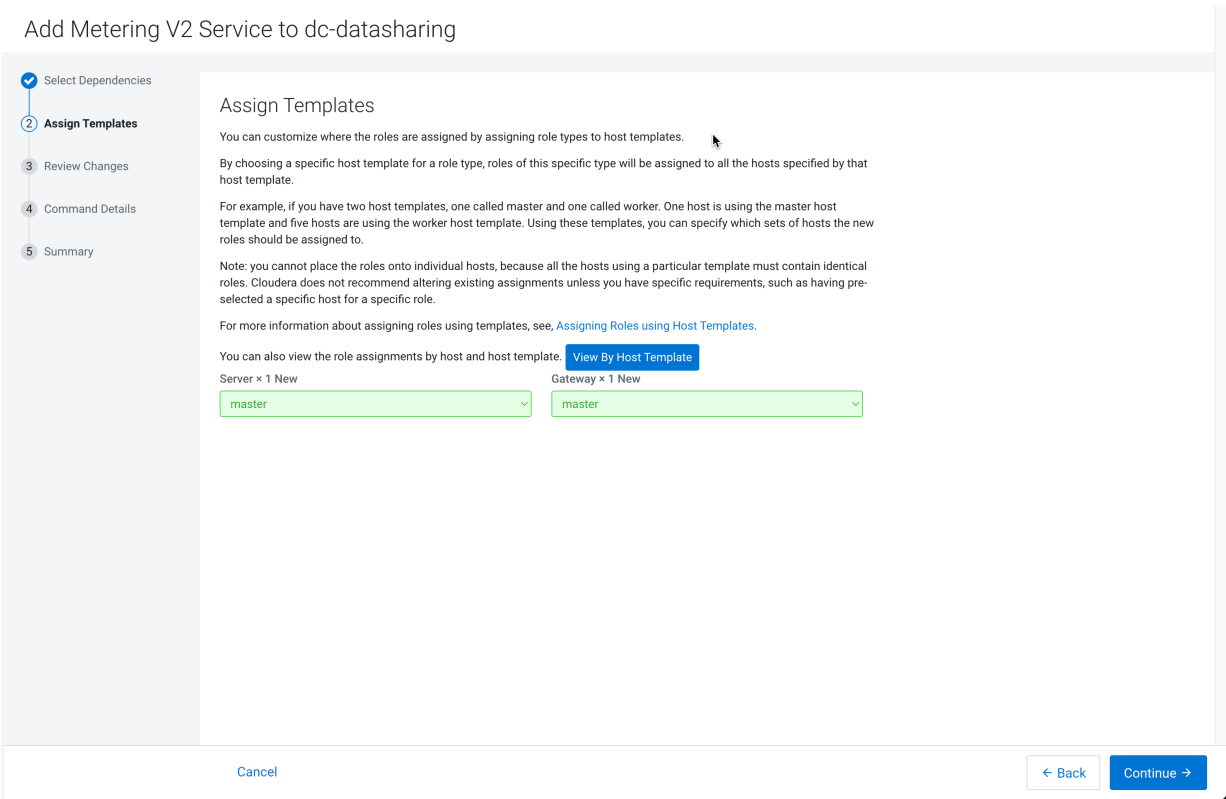
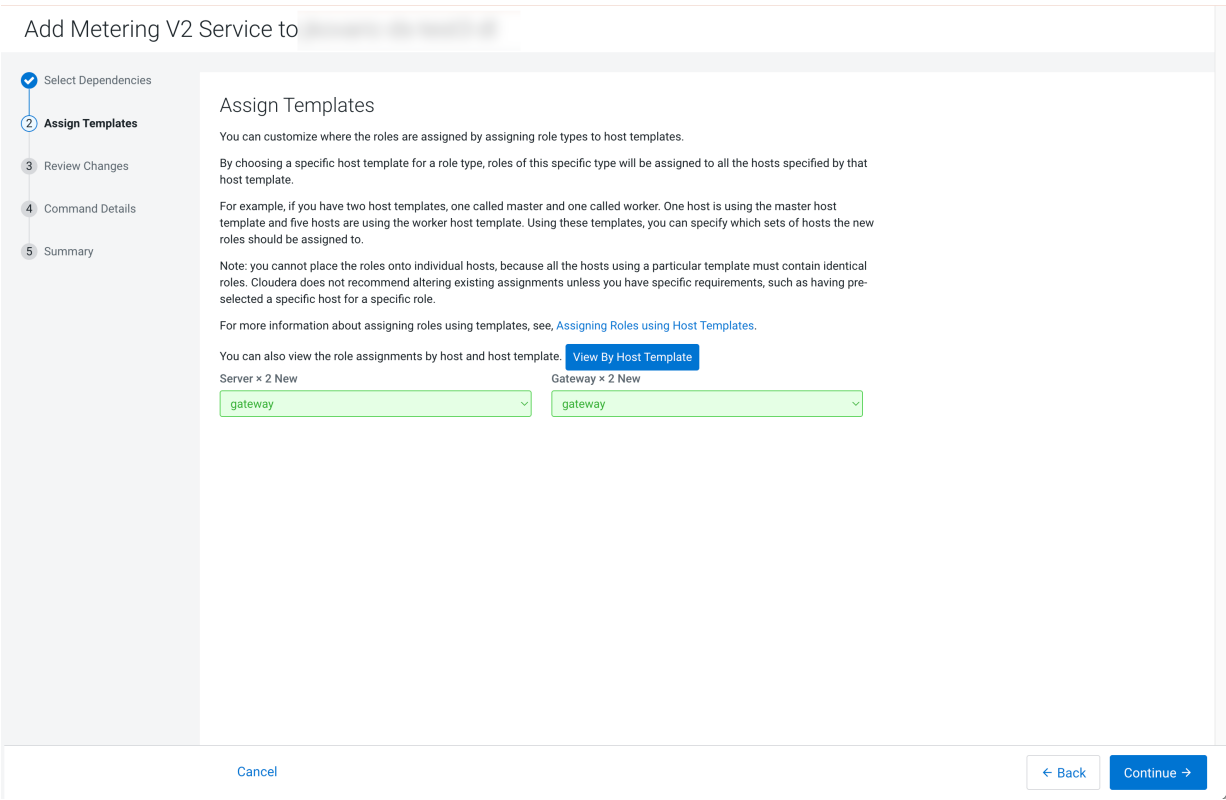
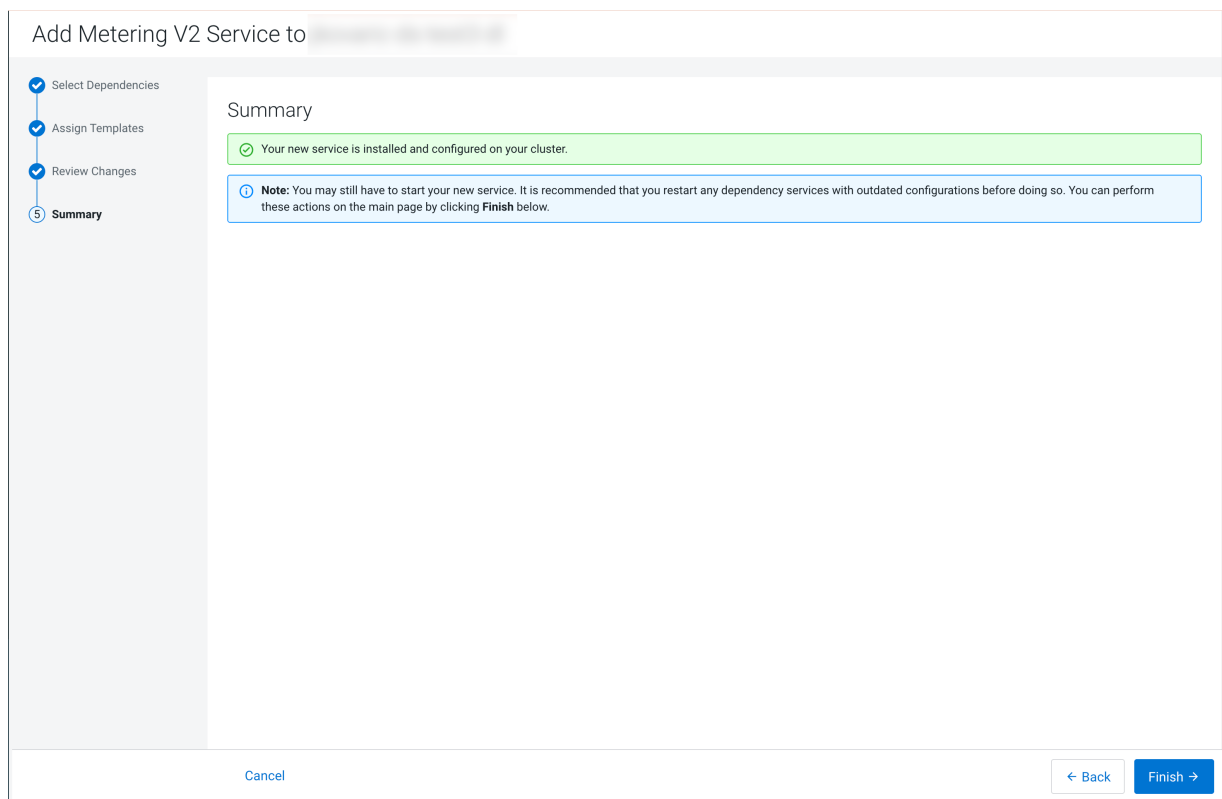


Figure 2: Role assignment for Enterprise Duty Data Lakes



5. In **Review Changes**, click Continue.

6. The **Command Details** step will automatically switch to **Summary** if no problems are detected with the first commands.
7. In **Summary**, click the Finish.



8. Click Save Changes.
9. Click Clusters Metering V2 Actions Restart .
10. If TLS is enabled for Metering V2 and you share data from Cloudera Object Store (powered by Apache Ozone) storage, import the Metering V2 certificate authority into the Hive Metastore JVM truststore.

Import the Metering V2 Cloudera Manager Local Certificate Authority alias (metering-scm-ca) into the cacerts truststore used by the Hive Metastore and REST Catalog JVM on every Hive Metastore node, and restart Hive Metastore. Without this import, REST Catalog API calls fail because Hive Metastore cannot establish a trusted TLS connection to the metering endpoint.

For example, retrieve the Metering V2 certificate, import it under the metering-scm-ca alias, and verify the import. Replace `[***METERING-HOST***]` with the host running the Metering V2 service, and adjust the JDK path if your cluster uses a different JVM. Inspect the certificate chain first and select the correct certificate: use `c==2` for an intermediate CA or `c==1` for a self-signed certificate.

```
export METERING_HOST=[***METERING-HOST***]
export JHOME=/usr/lib/jvm/jdk1.17.0.11.0-openjdk-cloudera

# Inspect the chain, then pick the right cert (example: intermediate = c
==2, self-signed = c==1)
echo | openssl s_client -connect "${METERING_HOST}:50052" -showcerts 2>/dev/null \
| awk '/BEGIN CERT/{c++; c==2,/END CERT/' > /tmp/metering.pem
# Sanity check the extracted certificate
openssl x509 -in /tmp/metering.pem -noout -subject -issuer

sudo "$JHOME/bin/keytool" -importcert -noprompt \
  -alias metering-scm-ca \
  -file /tmp/metering.pem \
```

```
-keystore "$JHOME/lib/security/cacerts" \  
-storepass changeit  
  
"$JHOME/bin/keytool" -list \  
-alias metering-scm-ca \  
-keystore "$JHOME/lib/security/cacerts" \  
-storepass changeit
```