Cloudera Runtime 7.3.2

Installing Metering V2 Manually

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Creating the Databus credentials

Databus credentials are needed to establish secure connections for the Metering V2 service to transmit metrics.

Before you begin

Ensure that you have the following:

- A Cloudera user account that can be promoted to Full Administrator role in Cloudera Manager.
- Grants to create API keys and Machine Users in Cloudera User Management Service (UMS).

Procedure

1. Create a new Machine User by following Creating a machine user in Cloudera.

   Note:
   - The particular machine user name is not important but will be needed for the following commands.
   - Make sure that the machine user is not deleted, to avoid losing metering events, which is registered by the Metering Events Monitor (MEM) service.
2. Retrieve the DatabaseUploader role CRN:

   ```
   cdp iam list-roles | grep “altus:role:DbusUploader”
   ```
3. Update machine user with DatabaseUploader role:

   ```
   cdp iam assign-machine-user-role --machine-user-name ***USER-NAME-FROM-STEP1*** --role ***CRN-FROM-STEP-2***
   ```
4. Create API Access Keys

   ```
   cdp iam create-machine-user-access-key --machine-user-name ***USER-NAME-FROM-STEP1***
   ```
5. Record the accessKeyId and the privateKey for use later:

   ```
   {
       "accessKey": {
           "accessKeyId": "abc",
           "crn": "",
           "actorCrn": "",
           "creationDate": "",
           "status": "ACTIVE",
           "type": "V2"
       },
       "privateKey": "abc"
   }
   ```
6. In the CRN value from the JSON in the previous step, record the region and the account number. For example, the Region (us-west-1) and Tenant ID (**215d3903-333d-45ae-8824-6a4a85e17e22**) are highlighted in the example CRN:

   ```
   crn:altus:iam:***REGION***:***TENANT-ID***:accesskey:***ACCESS-KEY***
   ```

   ```
   crn:altus:iam:us-west-1:215d3903-333d-45ae-8824-6a4a85e17e22:accesskey:b940b1ef-3ef7-425f-9140-2709990f544c
   ```

Related Information

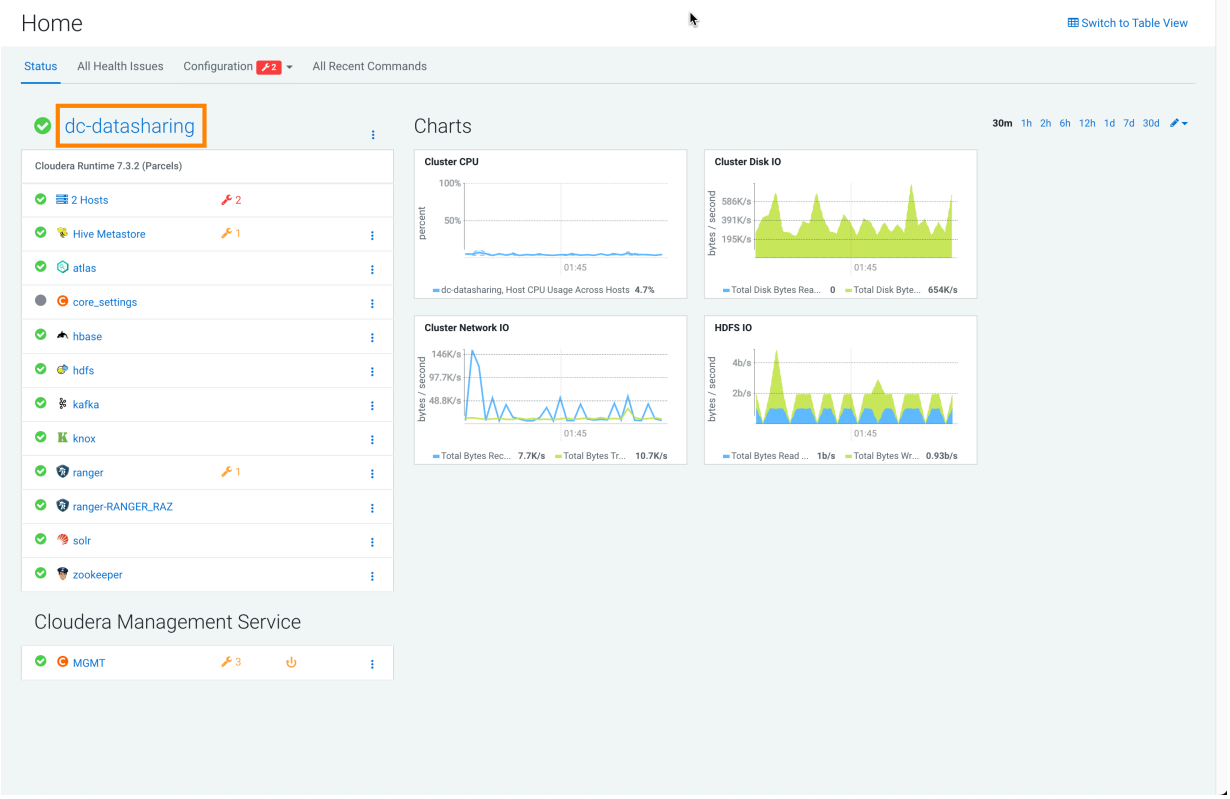
Cloudera machine user

Installing the Metering V2 Service

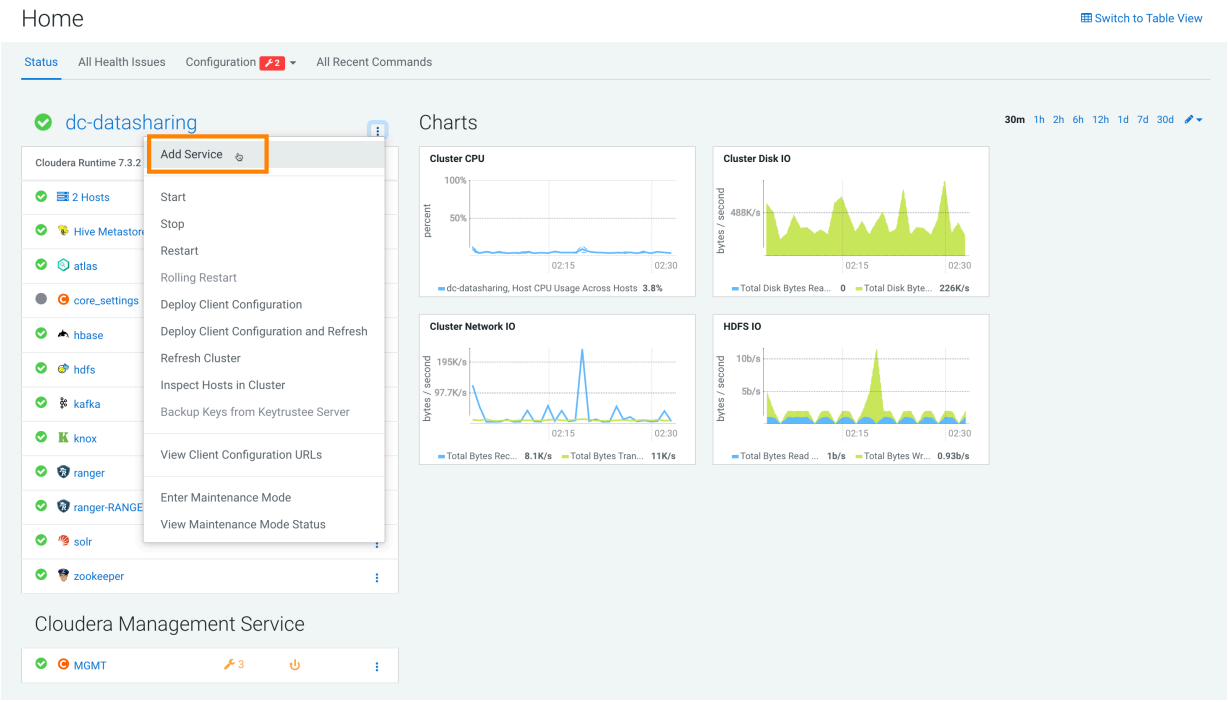
Learn how to install and configure the Metering V2 service to monetize API calls to Hive Metastore made by your clients.

Procedure

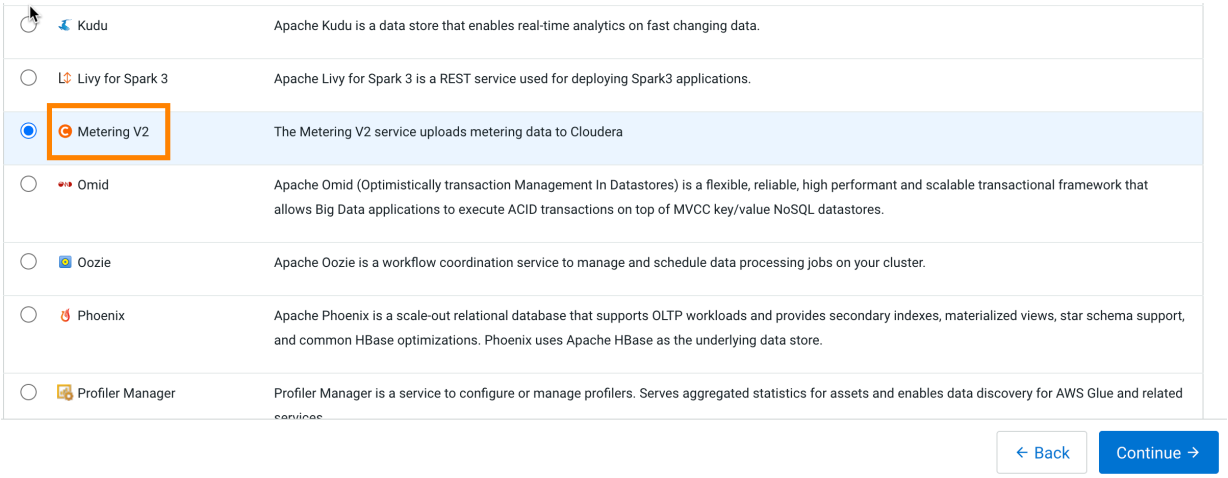
1. Open Cloudera Manager and open your cluster.



2. Click Action Add Service .



3. Select Metering V2 in the resulting screen.



4. In the **Assign Templates** step (the **Select Dependencies** step will already be done), click the Gateway text box and select the nodes with "master" in their name. Once the hosts have been selected, click the Continue button.

   Note: The Metering V2 service should be colocated with the Cloudera Data Sharing service, which in turn is collocated with the HMS Metastores.

Figure 1: Role assignment for Light Duty Data Lakes

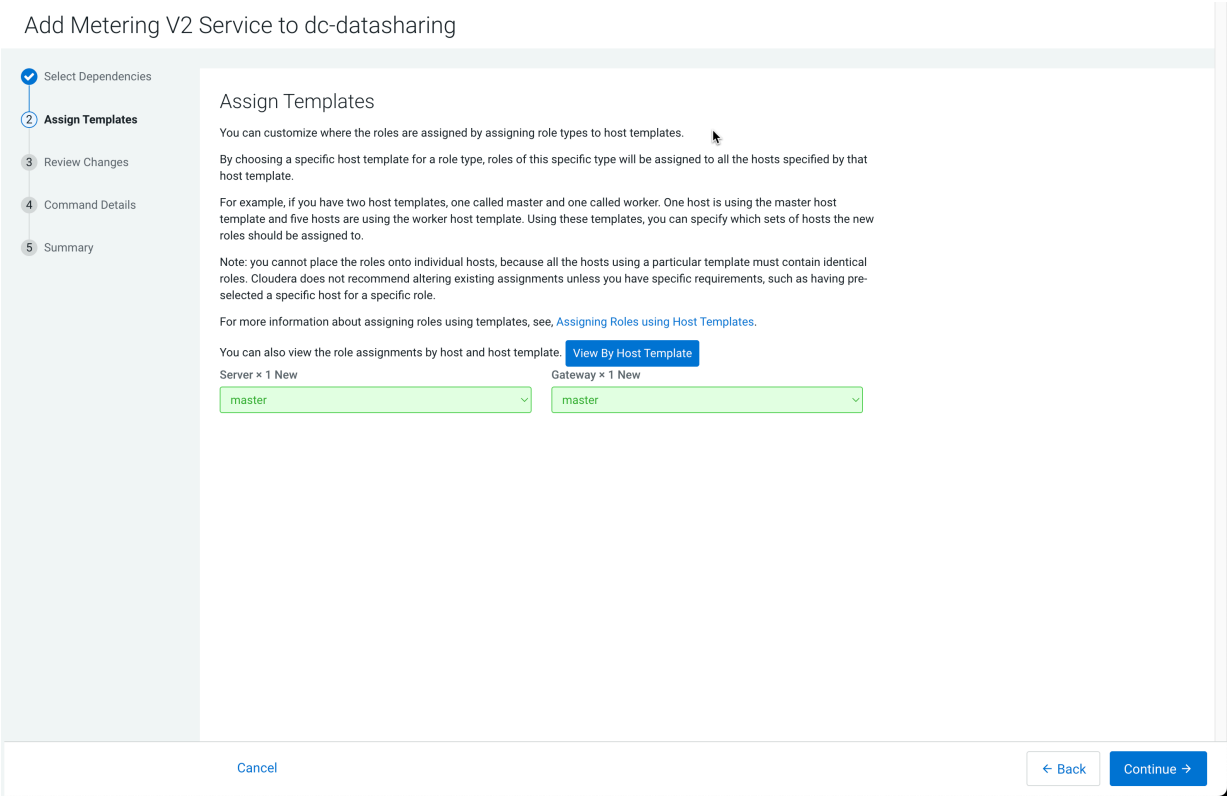
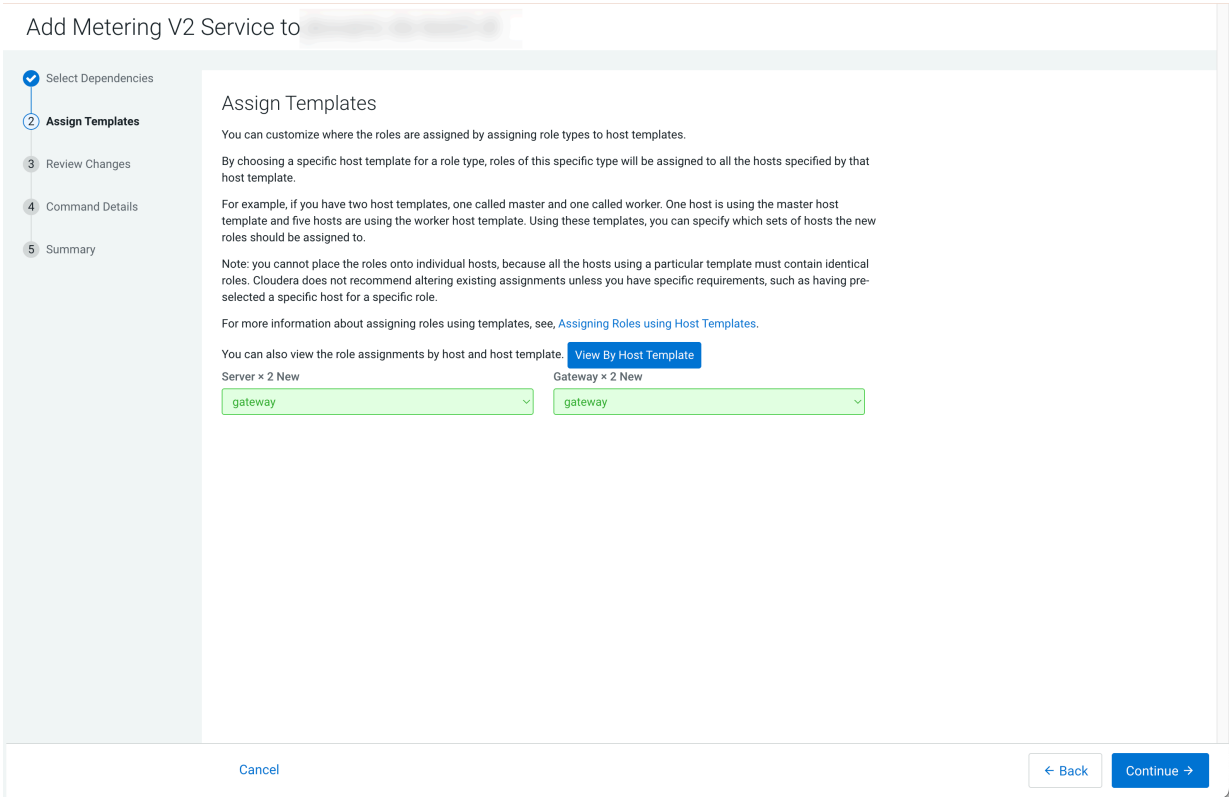
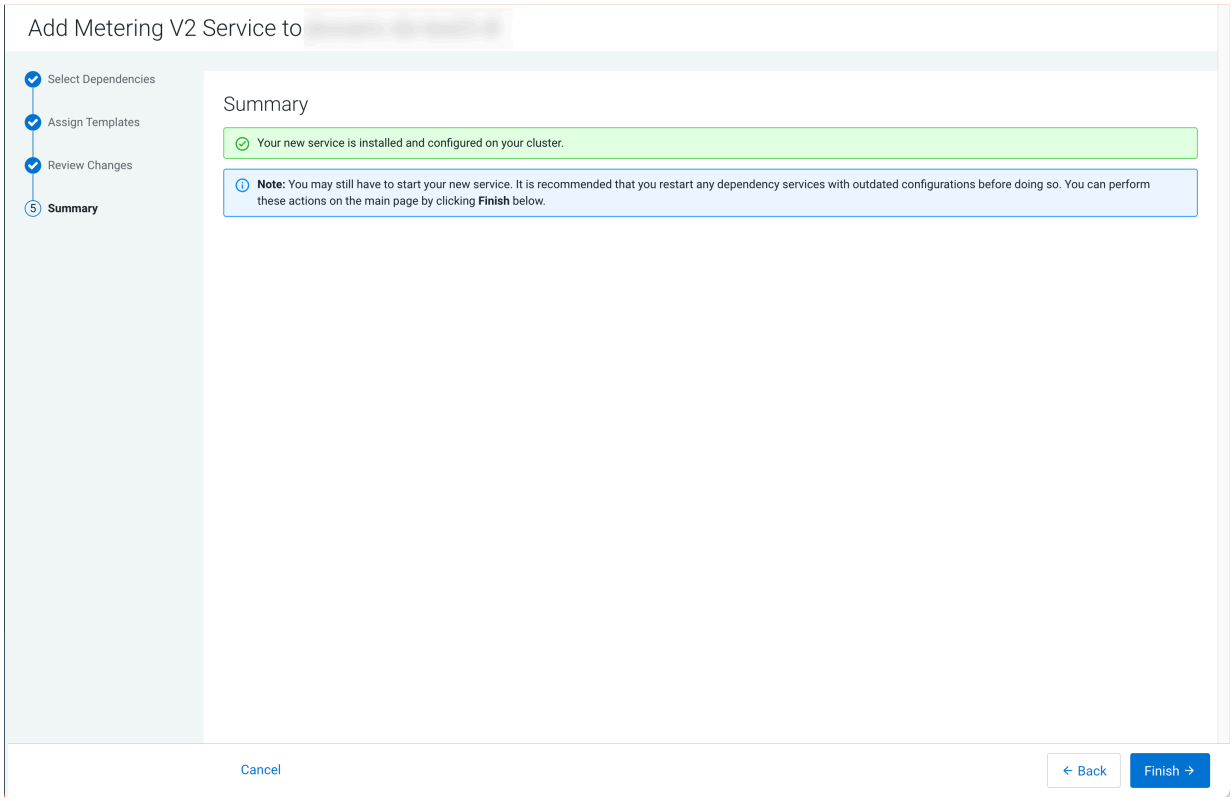


Figure 2: Role assignment for Enterprise Duty Data Lakes



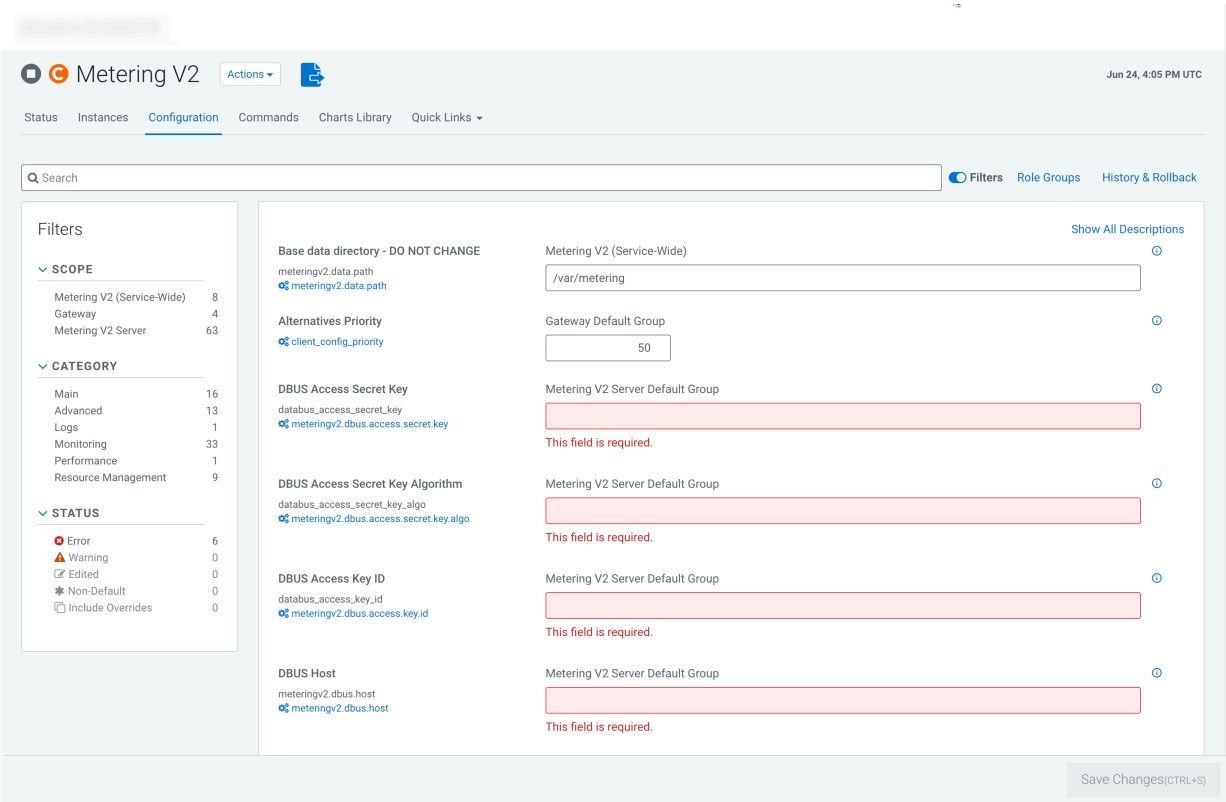
5. In **Review Changes**, click Continue.
6. The **Command Details** step will automatically switch to **Summary** if no problems are detected with the first commands.

7. In **Summary**, click the Finish.



Attention: The installation fails after clicking finish as you need to provide the DBUS information for correct operation after the first installation attempt. Continue with the next step.

8. Go to Clusters Metering V2 Configuration and fill in the following information:



- **DBUS Access Secret Key** - The value from the privateKey attribute when the DBUS machine user was created.
- **DBUS Access Secret Key Algorithm** - Set it to Ed25519.
- **DBUS Access Key ID** - The value from the accessKeyId attribute when the DBUS machine user was created.
- **DBUS Host** - dbusapi.us-west-1.sigma.altus.cloudera.com

  Note: The DBUS Host will change depending on the region:
  - For the EU region (eu-1) use api.eu-1.cdp.cloudera.com.
  - For the AP region (ap-1) use api.ap-1.cdp.cloudera.com.
- **DBUS Stream** - manowar_prod-mow-prod-MeteringV2

  Note: The DBUS Stream will change depending on the region:
  - For the EU region (eu-1) use manowar_prod_euc1-mow-prod-eu-central-1-MeteringV2.
  - For the AP region (ap-1) use manowar_prod_apse2-mow-prod-ap-southeast-2-MeteringV2.
- **DBUS App Name** - manowar_prod-mow-prod-MeteringV2

  Note: The DBUS App Name will change depending on the region:
  - For the EU region (eu-1) use manowar_prod_euc1-mow-prod-eu-central-1-MeteringV2.
  - For the AP region (ap-1) use manowar_prod_apse2-mow-prod-ap-southeast-2-MeteringV2.
- **DBUS Partition Key** - Enter the Tenant ID that was recorded when the DBUS machine user was created.
- **Region** - Enter the Region that was recorded when the DBUS machine user was created.

9. Click Save Changes.
10. Click Clusters Metering V2 Actions Restart .