Installation 3

Installing HDF Services on an Existing HDP Cluster

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Contents

Upgrade Ambari and HDP	3
Installing Databases	3
Supported Databases with NiFi Registry	3
Installing MySQL	
Configuring SAM and Schema Registry Metadata Stores in MySQL	4
Configuring Druid and Superset Metadata Stores in MySQL	4
Install Postgres	
Configure Postgres to Allow Remote Connections	
Configure SAM and Schema Registry Metadata Stores in Postgres	
Configure Druid and Superset Metadata Stores in Postgres	
Specifying an Oracle Database to Use with SAM and Schema Registry	
Switching to an Oracle Database After Installation	7
Installing the HDF Management Pack	8
Update the HDF Base URL	9
A LI MADE G. A. A. MADE GI. A.	0
Add HDF Services to an HDP Cluster	9
Configure HDF Components	11
Configure Schema Registry	
Configure SAM	
Configuring SAM log search and event sampling	
Configure NiFi	
Configure NiFi for Atlas Integration	
Configure Kafka	
Configure Storm	
Configure Log Search	
Deploy the Cluster Services	
Access the UI for Deployed Services	
Configuring Schome Degistry and SAM for High Availability	
Configuring Schema Registry and SAM for High Availability	10
Configuration CAM Configuration And The 11's	
Configuring SAM for High Availability Configuring Schema Registry for High Availability	18

Installation Upgrade Ambari and HDP

Upgrade Ambari and HDP

You can get started installing HDF services on an existing HDP cluster, by ensuring that you upgrade to the latest versions of Ambari and HDP.

Apache Ambari Upgrade

Upgrading HDP

Installing Databases

When installing Schema Registry, SAM, Druid, and Superset, you require a relational data store to store metadata. You can use either MySQL, Postgres, Oracle, or MariaDB. These topics describe how to install MySQL, Postgres, and Oracle and how create a databases for SAM and Schema Registry. If you are installing on an existing HDP cluster by using Superset, you can skip the installation instructions, because MySQL was installed with Druid. In this case, configure the databases.



Note:

You should install either Postgres, Oracle or MySQL; both are not necessary. It is recommended that you use MySQL.



Attention:

If you are installing Postgres, you must install Postgres 9.5 or later for SAM and Schema Registry. Ambari does not install Postgres 9.5, so you must perform a manual Postgres installation.

Supported Databases with NiFi Registry

Lists supported databases for NiFi Registry.

If you are installing a new NiFi Registry, then you can use one of the following databases:

- Embedded H2 database (default)
- PostgreSQL 9.5 and later
- PostgreSQL 10.x
- PostgreSQL 11.x
- MySQL 5.6
- MySQL 5.7
- MySQL 8

Installing MySQL

You can install MySQL 5.5 or later.

Before you begin

On the Ambari host, install the JDBC driver for MySQL, and then add it to Ambari:

```
yum install mysql-connector-java* \
sudo ambari-server setup --jdbc-db=mysql \
--jdbc-driver=/usr/share/java/mysql-connector-java.jar
```

Procedure

1. Log in to the node on which you want to install the MySQL metastore to use for SAM, Schema Registry, and Druid.

2. Install MySQL and the MySQL community server, and start the MySQL service:

```
yum localinstall \
https://dev.mysql.com/get/mysql57-community-release-el7-8.noarch.rpm
yum install mysql-community-server
systemctl start mysqld.service
```

3. Obtain the randomly generated MySQL root password.

```
grep 'A temporary password is generated for root@localhost' \
/var/log/mysqld.log |tail -1
```

4. Reset the MySQL root password. Enter the following command. You are prompted for the password you obtained in the previous step. MySQL then asks you to change the password.

```
/usr/bin/mysql_secure_installation
```

Configuring SAM and Schema Registry Metadata Stores in MySQL

Procedure

1. Launch the MySQL monitor:

```
mysql -u root -p
```

2. Create the database for Schema Registry and SAM metastore:

```
create database registry;
create database streamline;
```

3. Create Schema Registry and SAM user accounts, replacing the final IDENTIFIED BY string with your password:

```
CREATE USER 'registry'@'%' IDENTIFIED BY 'R12$%34qw';
CREATE USER 'streamline'@'%' IDENTIFIED BY 'R12$%34qw';
```

4. Assign privileges to the user account:

```
GRANT ALL PRIVILEGES ON registry.* TO 'registry'@'%' WITH GRANT OPTION ; GRANT ALL PRIVILEGES ON streamline.* TO 'streamline'@'%' WITH GRANT OPTION ;
```

5. Commit the operation:

```
commit;
```

Configuring Druid and Superset Metadata Stores in MySQL

Druid and Superset require a relational data store to store metadata. To use MySQL for this, install MySQL and create a database for the Druid metastore.

Procedure

1. Launch the MySQL monitor:

```
mysql -u root -p
```

2. Create the database for the Druid and Superset metastore:

```
CREATE DATABASE druid DEFAULT CHARACTER SET utf8;
CREATE DATABASE superset DEFAULT CHARACTER SET utf8;
```

3. Create druid and superset user accounts, replacing the final IDENTIFIED BY string with your password:

```
CREATE USER 'druid'@'%' IDENTIFIED BY '90Nio)ex1ndL';
CREATE USER 'superset'@'%' IDENTIFIED BY '90Nio)ex1ndL';
```

4. Assign privileges to the druid account:

```
GRANT ALL PRIVILEGES ON *.* TO 'druid'@'%' WITH GRANT OPTION;
GRANT ALL PRIVILEGES ON *.* TO 'superset'@'%' WITH GRANT OPTION;
```

5. Commit the operation:

```
commit;
```

Install Postgres

About this task

If you have already installed a MySQL database, you may skip these steps.



Attention:

You must install Postgres 9.5 or later for SAM and Schema Registry. Ambari does not install Postgres 9.5, so you must perform a manual Postgres installation.

Procedure

1. Install Red Hat Package Manager (RPM) according to the requirements of your operating system:

```
yum install https://yum.postgresql.org/9.6/redhat/rhel-7-x86_64/pgdg-redhat96-9.6-3.noarch.rpm
```

2. Install Postgres version 9.5 or later:

```
yum install postgresq196-server postgresq196-contrib postgresq196
```

- **3.** Initialize the database:
 - For CentOS 7, use the following syntax:

```
/usr/pgsql-9.6/bin/postgresql96-setup initdb
```

• For CentOS 6, use the following syntax:

```
sudo service postgresql initdb
```

4. Start Postgres.

For example, if you are using CentOS 7, use the following syntax:

```
systemctl enable postgresql-9.6.service systemctl start postgresql-9.6.service
```

5. Verify that you can log in:

```
sudo su postgres
psql
```

Configure Postgres to Allow Remote Connections

It is critical that you configure Postgres to allow remote connections before you deploy a cluster. If you do not perform these steps in advance of installing your cluster, the installation fails.

Procedure

1. Open /var/lib/pgsql/9.6/data/pg_hba.conf and update to the following

```
# "local" is for Unix domain socket connections only
local all all trust

# IPv4 local connections:
host all all 0.0.0.0/0 trust

# IPv6 local connections:
host all all ::/0 trust
```

2. Open /var/lib//pgsql/9.6/data/postgresql.conf and update to the following:

```
listen_addresses = '*'
```

3. Restart Postgres:

```
systemctl stop postgresql-9.6.service systemctl start postgresql-9.6.service
```

Configure SAM and Schema Registry Metadata Stores in Postgres

If you have already installed MySQL and configured SAM and Schema Registry metadata stores using MySQL, you do not need to configure additional metadata stores in Postgres.

Procedure

1. Log in to Postgres:

```
sudo su postgres
psql
```

2. Create a database called registry with the password registry:

```
create database registry;
CREATE USER registry WITH PASSWORD 'registry';
```

```
GRANT ALL PRIVILEGES ON DATABASE "registry" to registry;
```

3. Create a database called streamline with the password streamline:

```
create database streamline;
CREATE USER streamline WITH PASSWORD 'streamline';
GRANT ALL PRIVILEGES ON DATABASE "streamline" to streamline;
```

Configure Druid and Superset Metadata Stores in Postgres

Druid and Superset require a relational data store to store metadata. To use Postgres for this, install Postgres and create a database for the Druid metastore. If you have already created a data store using MySQL, you do not need to configure additional metadata stores in Postgres.

Procedure

1. Log in to Postgres:

```
sudo su postgres
psql
```

2. Create a database, user, and password, each called druid, and assign database privileges to the user druid:

```
create database druid;
CREATE USER druid WITH PASSWORD 'druid';
GRANT ALL PRIVILEGES ON DATABASE "druid" to druid;
```

3. Create a database, user, and password, each called superset, and assign database privileges to the user superset:

```
create database superset;
CREATE USER superset WITH PASSWORD 'superset';
GRANT ALL PRIVILEGES ON DATABASE "superset" to superset;
```

Specifying an Oracle Database to Use with SAM and Schema Registry

You may use an Oracle database with SAM and Schema Registry. Oracle databases 12c and 11g Release 2 are supported

Before you begin

You have an Oracle database installed and configured.

Procedure

1. Register the Oracle JDBC driver jar.

```
sudo ambari-server setup --jdbc-db=oracle --jdbc-driver=/usr/share/java/
ojdbc.jar
```

2. From the SAM an Schema Registry configuration screen, select Oracle as the database type and provide the necessary Oracle Server JDBC credentials and connection string.

Switching to an Oracle Database After Installation

If you want to use an Oracle database with SAM or Schema Registry after you have performed your initial HDF installation or upgrade, you can switch to an Oracle database. Oracle databases 12c and 11g Release 2 are supported

Before you begin

You have an Oracle database installed and configured.

Procedure

- 1. Log into Ambari Server and shut down SAM or Schema Registry.
- **2.** From the configuration screen, select Oracle as the database type and provide Oracle credentials, the JDBC connection string and click Save.
- 3. From the command line where Ambari Server is running, register the Oracle JDBC driver jar:

```
sudo ambari-server setup --jdbc-db=oracle --jdbc-driver=/usr/share/java/
ojdbc.jar
```

4. From the host where SAM or Schema Registry are installed, copy the JDBC jar to the following location, depending on which component you are updating.

```
cp ojdbc6.jar /usr/hdf/current/registry/bootstrap/lib/.
cp ojdbc6.jar /usr/hdf/current/streamline/bootstrap/lib/.
```

5. From the host where SAM or Schema Registry are installed, run the following command to create the required schemas for SAM or Schema Registry.

```
export JAVA_HOME=/usr/jdk64/jdk1.8.0_112 ; source /usr/hdf/current/
streamline/conf/streamline-env.sh ; /usr/hdf/current/streamline/bootstrap/
bootstrap-storage.sh create

export JAVA_HOME=/usr/jdk64/jdk1.8.0_112 ; source /usr/hdf/current/
registry/conf/registry-env.sh ; /usr/hdf/current/registry/bootstrap/
bootstrap-storage.sh create
```



Note:

You only this command run once, from a single host, to prepare the database.

- **6.** Confirm that new tables are created in the Oracle database.
- 7. From Ambari, restart SAM or Schema Registry.
- 8. If you are specifying an Oracle database for SAM, run the following command after you have restarted SAM.

```
export JAVA_HOME=/usr/jdk64/jdk1.8.0_112 ; source /usr/hdf/current/ streamline/conf/streamline-env.sh ; /usr/hdf/current/streamline/bootstrap/bootstrap.sh
```

9. Confirm that Sam or Schema Registry are available and turn off maintenance mode.

Installing the HDF Management Pack

A management pack (mpack) bundles service definitions, stack definitions, and stack add-on service definitions so they do not need to be included with the Ambari core functionality and can be updated in between major releases.

- **1.** Download the Hortonworks HDF management pack. You can find the download location for your operating system in the *HDF Release Notes*.
- 2. Copy the bundle to /tmp on the node where you installed Ambari.

3. Install the management pack:

```
ambari-server install-mpack \
--mpack=/tmp/hdf-ambari-mpack-<version>.tar.gz \
--verbose
```

4. Restart the Ambari server:

```
ambari-server restart
```

Related Information

HDF Release Notes

Update the HDF Base URL

Adding the base URL tells Ambari where to look for the HDF repository. This step is necessary when you are using an existing Ambari instance, already managing an HDP cluster, to install and manage an HDF cluster.

Procedure

- From the Ambari menu, click the admin drop-down in the top right of your Ambari Dashboard view. Then select Manage Ambari.
- 2. From the Clusters view on the left, click Versions, and then click the HDP version link.
- **3.** Configure the HDF Base URL to the base URL appropriate for your operating system. Find the HDF Base URLs in the *HDF Release Notes*.



Note: If HDF URL is not behind the paywall, then you must select the disableCredentialsAutocompleteForRepoUrls option on http://\$AMBARI_SERVER:8080/#/experimental.

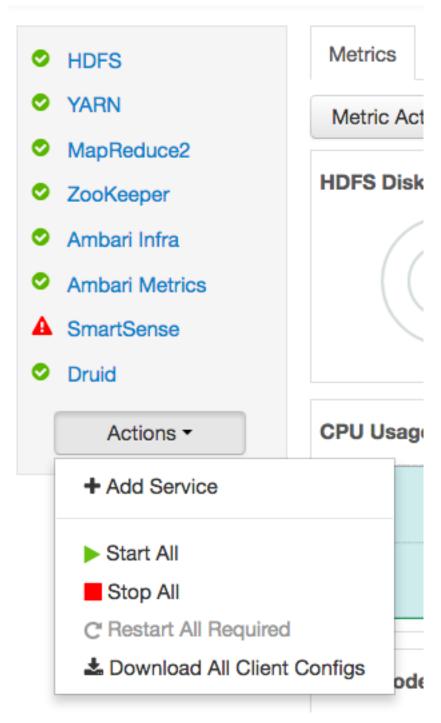
4. Click Save.

Add HDF Services to an HDP Cluster

You can use the HDF management pack and Ambari to add HDF services to an HDP cluster.

Procedure

1. If you are installing HDF services on an existing HDP Cluster, on the Ambari home page, click the button Actions and select + Add Service.



- 2. Chose select the HDF Services (NiFi and NiFi Registry) you want to install.
- **3.** On the Assign Masters screen, distribute master services using the preceding deployment diagram of the Stream Processing cluster.
- **4.** On the Assign Slaves and Clients screen, distribute slave services using the deployment diagram of the Stream Processing cluster.

Configure HDF Components

You can customize your HDF component configurations during installation, or any later time. During installation, customize HDF component configurations in the **Customize Services** step of the Installation Wizard. At any other time, click the service you want to configure in the left-hand Services pane, in the Ambari Dashboard, then click the **Configs** tab.

Configure Schema Registry

The main Schema Registry configuration task you have is to establish a connection between Schema Registry and the database you are going to use as the metadata store.

Procedure

- 1. In the Customize Services step, navigate to the REGISTRY CONFIG section of the Registry tab.
- 2. Select Jar Storage Type. If you plan to enable HA for Schema Registry on this cluster, you must select HDFS.
- 3. If you selected HDFS as the Jar Storage Type, configure Jar Storage HDFS URL. This specifies the HDFS location where you want the jars to be stored. For example, hdfs://<<NN_HOST:8020:/hdfs/registry.
- 4. Set jar.storage to the directory location where you want to store .jar files for serializers and deserializers.
- **5.** Configure the **REGISTRY STORAGE** configurations based on the database you created to use as the Schema Registry metadata store.
- **6.** Ensure that the Schema Registry storage connector URL has the fully qualified host name for the database installation location, the connector URL, and the default port for the database selected.

Example

```
MYSQL example:
jdbc:mysql://FQDN_MYSQL:3306/registry

Postgres Example:
jdbc:postgresql://FQDN_POSTGRES:5432/registry
```

Configure SAM

When you configure SAM, you need to provide information about the metadata store database, configure a connection with Schema Registry, and establish the URL for Druid's Supersets.

- In the Customize Services step, navigate to the STREAMLINE CONFIG section of the Streaming Analytics Manager tab.
- Select Jar Storage Type. If you plan to enable HA for SAM on this cluster, you must select HDFS.
- **3.** If you selected **HDFS** as the **Jar Storage Type**, configure **Jar Storage HDFS URL**. This specifies the HDFS location where you want the jars to be stored. For example, hdfs://<<NN_HOST:8020:/hdfs/registry.
- 4. Set jar.storage to the directory location where you want to store .jar files for custom processors.
- 5. Set the streamline.dashboard.url to the Superset URL which you can access using Quick Links for Druid.
- **6.** Configure **registry.url** to the REST API Endpoint URL for the Registry. The format should be http:// \$FQDN_REGISTRY_HOST:\$REGISTRY_PORT/api/v1, where:

- \$FQDN_REGISTRY_HOST Specifies the host on which you are running Schema Registry
- \$REGISTRY_PORT Specifies the Schema Registry port number located in the REGISTRY_CONFIG section of the Registry tab.

For example:http://FQDN_REGISTRY_HOST:7788/api/v1

- Configure the STREAMLINE STORAGE configurations based on the database you created to use as a SAM metadata store.
- **8.** Ensure that the Schema Registry storage connector URL has the fully qualified host name for the database installation location, the connector URL, and the default port for the database selected.

Example

```
MYSQL example:
jdbc:mysql://FQDN_MYSQL:3306/streamline

Postgres Example:
jdbc:postgresql://FQDN_POSTGRES:5432/streamline
```

Configuring SAM log search and event sampling

You must perform several manual steps to enable log search and event sampling for SAM.

- 1. From the Log Search UI, click the Configuration icon on the top right of your screen. Select **Configuration Editor**.
- 2. From the left hand All Configuration pane, select Storm.
- 3. In the Edit Configuration field, replace the existing json text with the following configuration:

```
"input":[
      "type": "storm_drpc",
      "rowtype": "service",
      "path": "/var/log/storm/drpc.log"
      "type": "storm_logviewer",
      "rowtype": "service",
      "path": "/var/log/storm/logviewer.log"
      "type": "storm_nimbus",
      "rowtype": "service",
      "path": "/var/log/storm/nimbus.log"
      "type": "storm_supervisor",
      "rowtype": "service",
      "path": "/var/log/storm/supervisor.log"
      "type": "storm_ui",
      "rowtype": "service",
      "path": "/var/log/storm/ui.log"
```

```
"type": "storm_worker",
         "rowtype": "service",
         "path": "/var/log/storm/workers-artifacts/*/*/worker.log",
         "cache_enabled":true,
         "cache_key_field":"log_message",
         "cache_last_dedup_enabled":true,
         "cache_size":100,
         "cache_dedup_interval":1000,
         "init_default_fields":true
         "type": "storm_worker_event",
         "rowtype": "service",
         "path":"/var/log/storm/workers-artifacts/*/*/events.log",
         "add_fields":{
            "level": "INFO"
         "cache_enabled":true,
         "cache_key_field":"log_message",
         "cache_last_dedup_enabled":true,
         "cache_size":100,
         "cache_dedup_interval":1000,
         "init_default_fields":true
   "filter":[
         "filter": "grok",
         "conditions":{
            "fields":{
               "type":[
                   "storm_supervisor",
                  "storm_logviewer",
                  "storm_drpc",
                  "storm_worker",
                  "storm_ui",
                  "storm nimbus"
         "skipOnError":false,
         "deepExtract":false,
         "sort_order":1,
         "post_map_values":{
            "logtime":[
                   "map date":{
                      "target_date_pattern":"yyyy-MM-dd HH:mm:ss.SSS"
            ]
         "log4j_format":"",
         "multiline_pattern": "^(%{TIMESTAMP_ISO8601:logtime})",
         "message_pattern":"(?m)^
{TIMESTAMP\_ISO8601:logtime}_{SPACE}_{JAVACLASS:logger_name}_{}
\s\{GREEDYDATA:thread_name}\\s\\[%{LOGLEVEL:level}\\]\\s
%{GREEDYDATA:log_message}"
         "filter": "grok",
         "conditions":{
```

```
"fields":{
                "type":[
                   "storm_worker"
         "skipOnError":false,
         "deepExtract":false,
         "sort_order":2,
         "source_field": "thread_name",
         "remove_source_field":false,
         "message_pattern":"(Thread\\-[0-9]+\\-[0-9]+\\-
%{DATA:sdi_streamline_component_name}\\-executor%{DATA}|
%{DATA:thread_name})"
         "filter": "grok",
         "conditions":{
            "fields":{
               "type":[
                   "storm_worker"
         "skipOnError":false,
         "deepExtract":false,
         "sort_order":3,
         "source_field": "path",
         "remove_source_field":false,
         "message_pattern":"/var/log/storm/workers-artifacts/
%{DATA:sdi_storm_topology_id}/%{DATA:sdi_storm_worker_port}/worker\\.log"
         "filter": "grok",
         "conditions": {
            "fields":{
               "type":[
                   "storm_worker"
         "skipOnError":false,
         "deepExtract":false,
         "sort_order":4,
         "source_field": "sdi_storm_topology_id",
         "remove_source_field":false,
         "message_pattern":"(streamline\\-
%{DATA:sdi_streamline_topology_id}\\-%{DATA:sdi_streamline_topology_name}\
\-[0-9]+\\-[0-9]+)|(%{DATA:sdi_storm_topology_id})"
         "filter": "grok",
         "conditions": {
            "fields":{
               "type":[
                   "storm_worker_event"
         "skipOnError":false,
         "deepExtract":false,
         "sort_order":5,
         "post_map_values":{
            "logtime":[
```

```
"map_date":{
                     "target_date_pattern":"yyyy-MM-dd HH:mm:ss.SSS"
            ]
         "log4j_format":"",
         "message_pattern":"^%{TIMESTAMP_ISO8601:logtime}(!_DELIM_!
<STREAMLINE_EVENT>!_DELIM_!%{DATA:sdi_streamline_component_name}!
_DELIM_!%{DATA:sdi_streamline_event_id}!_DELIM_!
%{DATA:sdi_streamline_root_ids}!_DELIM_!%{DATA:sdi_streamline_parent_ids}!
_DELIM_!%{DATA:sdi_streamline_event_fields_and_values}!
_DELIM_!%{DATA:sdi_streamline_event_headers}!_DELIM_!
%{DATA:sdi_streamline_event_aux_fields_and_values})|(%{GREEDYDATA})"
         "filter": "grok",
         "conditions":{
            "fields":{
               "type":[
                  "storm_worker_event"
         "skipOnError":false,
         "deepExtract":false,
         "sort_order":6,
         "source_field": "path",
         "remove_source_field":false,
         "message_pattern":"/var/log/storm/workers-artifacts/
%{DATA:sdi_storm_topology_id}/%{DATA:sdi_storm_worker_port}/events\\.log"
         "filter": "grok",
         "conditions":{
            "fields":{
               "type":[
                  "storm worker event"
         "skipOnError":false,
         "deepExtract":false,
         "sort_order":7,
         "source_field": "sdi_storm_topology_id",
         "remove_source_field":false,
         "message_pattern": "(streamline\\-
%{DATA:sdi_streamline_topology_id}\\-%{DATA:sdi_streamline_topology_name}\
-[0-9]+\-[0-9]+)|(%{DATA:sdi_storm_topology_id})"
```

- **4.** Verify that storm log directory is correct. The above json content is /var/log/storm/. You should replace it with the actual log directory path if your cluster uses different log directory.
- 5. Click Save.

Configure NiFi

You use the **NiFi** tab in the **Customize Services** step to configure Apache NiFi. Generally, you can accept the defaults during initial installation. However, there are some settings that you must configure before proceeding.

Procedure

1. From Advanced-nifi-ambari-config, specify the Encrypt Configuration Master Key Passwords.

This password is used when you generate the master key for sensitive properties encryption in the NiFi properties file when it is written to disk. It must contain at least 12 characters.

2. From Advanced-nifi-ambari-config, provide the Sensitive property values encryption password.

This is the password used when you encrypt any sensitive property values that are configured in processors. For enhanced security, it should contain at least 10 characters.

Configure NiFi for Atlas Integration

You can integrate NiFi with Apache Atlas to take advantage of robust dataset and application lineage support. You do this by configuring the NiFi ReportLineageToAtlas Reporting Task once you have NiFi configured and running.

Before you begin

If NiFi is installed on an HDP cluster, you must be running HDP 2.6.4 or later If NiFi is installed on an HDF cluster managed by a separate Ambari instance, you must be running HDP 2.6.1 or later, and Apache Atlas 0.8.0 or later.

Procedure

- 1. From the Global Menu located in NiFi's upper right corner, select Controller Services and click the Reporting Tasks tab.
- 2. Click the Add (+) icon to launch the Add Reporting Task dialog.
- **3.** Select ReportLineageToAtlas and click Add.
- 4. Click the Edit icon to launch the Configure Reporting Task dialog. The following Properties are required:
 - Atlas URLs a comma-separated list of Atlas Server URLs. Once you have started reporting, you cannot
 modify an existing Reporting Task to add a new Atlas Server. When you need to add a new Atlas Server, you
 must create a new reporting task.
 - Atlas Authentication Method Specifies how to authenticate the Reporting Task to the Atlas Server. Basic authentication is the default.
 - NiFi URL for Atlas Specifies the NiFi cluster URL
 - NiFi Lineage Strategy Specifies the level of granularity for your NiFi dataflow reporting to Atlas. Once you have started reporting, you should not switch between simple and complete lineage reporting strategies.
 - Provenance Record Start Position Specifies where in the Provenance Events stream the Reporting Task should start.
 - Provenance Record Batch Size Specifies how many records you want to send in a single batch
 - Create Atlas Configuration File If enabled, the atlas-application-properties file and the Atlas Configuration Directory are automatically created when the Reporting Task starts.
 - Kafka Security Protocol Specifies the protocol used to communicate with Kafka brokers to send Atlas hook notification messages. This value should match Kafka's security protocol property value.

Results

Once you have ReportLineageToAtlas up and running, you may view dataset level lineage graphs in the Atlas UI.



Note:

The default time interval for the Reporting Task to start sending data to an Atlas Server is 5 minutes so do not expect to see immediate lineage graphs. You can change the default time interval in the Reporting Task property configuration.

What to do next

More Information

For complete information, see the help included with the Reporting Task.

Configure Kafka

You can configure Apache Kafka from the Kafka tab in the Customize Services step.

Procedure

- 1. For your initial installation, accept the default values set by Apache Ambari.
- **2.** If Ambari prompts you with Some configurations need your attention before you can proceed, review the list of properties and provide the required information.
- **3.** Review the *Apache Kafka Component Guide* for information about configuring Kafka to meet your operational objectives.
- **4.** If you have enabled Kerberos, ensure that the listener configuration is set to advertised.listeners= SASL_PLAINTEXT://\$HOSTNAME:\$PORT.

Configure Storm

You can configure Storm from the **Storm** tab in the **Customize Services** step.

Procedure

- 1. For your initial installation, accept the default values set by Ambari.
- **2.** If Ambari prompts you with: Some configurations need your attention before you can proceed. Review the list of properties and provide the required information.
- **3.** Review the *Apache Storm Component Guide* for information about configuring storm to meet your operational objectives.

Configure Log Search

To ensure that you can view logs in the new SAM Log Search, you can manually review and adjust Log Search Settings for storm_worker and storm_worker_event.

Procedure

- 1. From the left-hand navigation pane, select Log Search | Configs.
- 2. Manually set the Log Feeder Log Levels Filter for storm_worker and storm_worker_event to include Info, Debug, and Trace.

Deploy the Cluster Services

Procedure

Finish the wizard and deploy the cluster. After the cluster has been deployed, some services might fail in starting. If this is the case, start those services individually.

Access the UI for Deployed Services

Once you have deployed your Ambari-managed cluster, you can launch the UI for any of the services from Ambari.

Procedure

- 1. From Ambari's left-hand Services pane, click the service you want.
- 2. From the Quick Links drop-down, select the UI option.
- 3. Find links for the SAM UI under Streaming Analytics Manager and for the Schema Registry UI under Registry.

Results

The UI for your HDF service opens in a new window.

Configuring Schema Registry and SAM for High Availability

Configuring SAM for High Availability

You can configure SAM for high availability.

Procedure

- 1. Install two or more instances of SAM on unique nodes.
- 2. From the Services pane, select Streaming Analytics Manager and click the Configs tab.
- 3. In the Jar Storage Type drop down, select HDFS or Database.



Note:

If you are using a MySQL database, ensure that you make adjustments to the database configuration as well. max_allowed_packet must be greater than the maximum file size of any custom processor or user defined function that will be uploaded.

Configuring Schema Registry for High Availability

You can configure Schema Registry for high availability.

- 1. Install two or more instances of Schema Registry on unique nodes.
- 2. From the Services pane, select Schema Registry and click the Configs tab.
- 3. In the Jar Storage Type drop down, select HDFS.