# Demo: Navigating and Operating Cloudera Manager

This demo provides a detailed technical guide on navigating and using Cloudera Manager from a data engineer's perspective, focusing on key functionalities such as adding new services, monitoring cluster health, and viewing logs.

#### 1. Accessing Cloudera Manager

- URL Access: Open a web browser and navigate to the Cloudera Manager interface using the URL http://[Cloudera\_Manager\_Host]:7180.
- Login: Enter your credentials (username and password) to log in.

#### 2. Navigating the Cloudera Manager Interface

#### • Dashboard Overview:

 Upon logging in, you'll land on the Dashboard. This provides a highlevel view of your cluster's health, including any critical alerts or warnings.

#### • Left Sidebar:

The sidebar is your primary navigation tool, containing links to clusters, services, hosts, reports, and administration settings.

#### 3. Monitoring Cluster Health

## • Viewing Cluster Health:

- Navigate to the 'Home' > 'Status' tab to view the overall health of your cluster.
- Here, you'll see a summary of all running services and any alerts or issues.

#### • Service Status:

 Click on a specific service (like HDFS or YARN) to view detailed health status, including service-specific metrics.

#### 4. Adding a New Service

#### • Navigate to the Cluster:

- Go to the main dashboard, then click on your cluster name.

#### • Add Service:

- Click on the 'Add Service' button.
- Follow the wizard to select the service you want to add (e.g., Apache Spark, Kafka).
- Configure the service settings as prompted by the wizard (like role assignments, configuration settings).
- Complete the setup and start the service.

## 5. Viewing and Managing Logs

#### • Accessing Logs:

- Navigate to a specific service from the main dashboard.
- Go to the 'Instances' tab and select a specific role or instance.
- Click on the 'Logs' tab to view the logs for that instance.

#### • Searching and Filtering Logs:

 Use the search and filter features within the log viewer to pinpoint specific log entries or issues.

## 6. Managing Hosts

#### • Hosts Overview:

- Go to 'Hosts' > 'All Hosts' to see a list of all nodes in your cluster.
- This section provides details like IP addresses, health status, and roles assigned to each host.

#### • Adding/Removing Hosts:

- To add a new host, use the 'Add New Hosts to Cluster' option.
- To remove a host, select the host and use the 'Actions' menu.

# 7. Configuring and Tuning Services

## • Service Configuration:

- Select a service from the cluster dashboard.
- Go to the 'Configuration' tab to view and edit settings.
- Use the search feature to find specific configuration parameters.

#### • Performance Tuning:

 Based on monitoring and performance metrics, tune the configurations (like memory settings, number of executors) for optimal performance.

# 8. Managing Users and Permissions

# • User Management:

- Access the 'Administration' tab.
- Use 'Users' and 'Groups' to manage user accounts and their permissions.

# 9. Running Diagnostic Tools

#### • Diagnostic Bundles:

- In case of issues, generate diagnostic bundles via 'Support' > 'Diagnostics'.
- These bundles can be used for troubleshooting or sent to Cloudera support.