

ADMIN-230 Operating Cloudera Data Platform

CDP Private Cloud Base and CDP Public Cloud

Course Overview

Course Type

Instructor-led training

Level 200

Cloudera Administrator

Duration

4 days

Platform

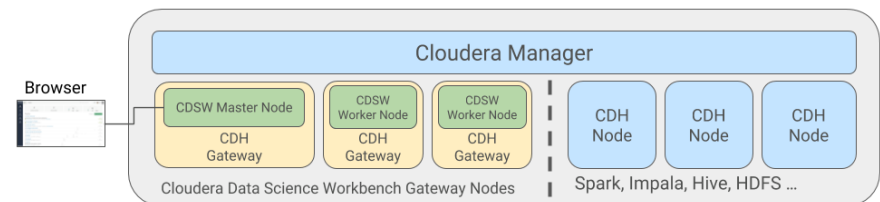
CDP Private Cloud Base

Topics Covered

- Architecture for Cloudera Manager
- Installation of Cloudera Manager
- Securing with TLS and Kerberos
- Configuration of CDP Runtime
- Problem Solving
- Optimization of Cloudera Manager
- Using the REST API to manage clusters
- Upgrading Cloudera Manager

About This Training

Cloudera Manager is purposely built as the DevOps tooling for managing Cloudera Data Platform. This sophisticated web UI is used to build, operate, and manage CDP and CDF clusters. Upon successful completion of this course a CDP Administrator will learn the full range of functionality and capability of Cloudera Manager.



This course provides an in-depth explanation and skills for an administrator to become highly productive with Cloudera Manager. Students will learn to install, configure, operate, troubleshoot, report, and upgrade Cloudera Data Platform using Cloudera Manager. This course teaches the architecture, deployment, configuration, logging, reporting, REST API, and much more.

Who Should Take This Course?

This course is an entry point for aspiring CDP Administrators and any CDP Administrators not well familiar with the full range of Cloudera Manager capabilities. Students must have a background in Linux and knowledge of SQL. Students must have access to the Internet to reach the classroom environments, which are located on Amazon Web Services.

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Training Outline (Page 2 of 2)

Cloudera Manager Design

- Roles of a CDP Administrator
- Getting aboard the classroom environment

Cloudera Manager Architecture

- Cloudera Manager server-agent architecture
- CDP architecture

Deploying Cloudera Manager

- Creating an air gap repository
- Install Cloudera Manager

Configuring Auto-TLS

- Basic TLS
- Creating the jssecacerts file
- Deploying CM as a Root CA

Configuring Kerberos

- Basic Kerberos
- Deploying Kerberos

Deploy CDP Services

- Install Cloudera Manager Agents
- Install CDP Runtime

Navigating within Cloudera Manager

- Navigating Cloudera Manager
- Search with Cloudera Manager

Operations with Cloudera Manager

- Restarting Cloudera Manager
- Understanding and restarting supervisor
- Automating restarts of cluster services

Managing Services

- Identifying and installing Parcels
- Add and remove CDP services

Configuration Management

- Configuration changes to properties
- Configuring Role Groups

Incident Management

- Configuring monitoring, alerting and notification
- Rolling back changes

Logging

- Managing Role logs
- Managing log rotation

Problem Management

- Role logs and diagnosis
- Cloudera Blog, Community, and Support

Bundling

- Creating Support bundles
- Limiting Support bundles
- Redaction rules

Reporting

- Create custom dashboards
- Create custom reports

Performance Tuning

- Cloudera Manager tuning properties
- Tuning Cloudera Manager

Resource Management

- Managing Roles and Templates
- Adding Workers
- Decommissioning and removing workers

Upgrading Cloudera Manager

- Backup Cloudera Manager and the scm database
- Upgrading Cloudera Manager

Managing Clusters with the REST API

- REST API documentation
- REST API Swagger UI
- REST API command line
- REST API shell script