ADMIN-230

Administering Cloudera on premises

Course Overview

Course Type
Instructor-Led Training

Level
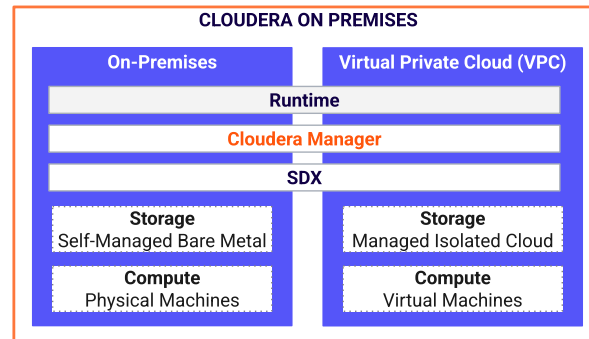Intermediate

Duration
4 days

Platform
Cloudera on premises

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

About This Training

Cloudera is a fully integrated edge to AI product set. Cloudera Manager is purposely built as the DevOps tooling for building and managing the Cloudera platform. This four-day hands-on course presents detailed explanation, comprehensive theory, key skills, and recommended practices for successful platform administration. Upon completion of this course a Cloudera Administrator will learn the full range of functionality and capability of Cloudera Manager.

This course provides an in-depth explanation and skills to become highly productive with Cloudera Manager and the Cloudera platform. Cloudera Manager is a full featured and mature DevOps tool. It is used to install, configure, operate, troubleshoot, report, and upgrade Cloudera. Many Cloudera Administrators only use a fraction of the capabilities built into Cloudera Manager. This course teaches the architecture, deployment, configuration, logging, reporting, REST API, and much more. The course provides references for architecture and recommended practices used by enterprises around the globe.

Who Should Take This Course?

While this course is an entry point for aspiring Cloudera Administrators this course is detailed enough for more senior Cloudera Administrators to discover new functionality and capabilities. This course is intended for Linux Administrators who are taking up roles as Platform Administrators. We recommend a minimum of 2 years of system administration experience in industry. Students must have proficiency in Linux. Knowledge of Directory Services, Transport Layer Security, Kerberos, and SQL select statements is helpful. Students must have access to the Internet to reach Amazon Web Services.

ADMIN-230

Administering Cloudera on premises

The Cloudera Platform

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

Cloudera Technology Architecture

- Cloudera Manager server-agent architecture
- Cloudera 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 Cloudera Runtime

- Install Cloudera Manager Agents
- Search with Cloudera Manager

Navigating within Cloudera Manager

- Navigating Cloudera Manager
- Search with Cloudera Manager

Operations with Cloudera Manager

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

Managing Services

- Identifying and installing Parcels
- Add and remove Cloudera 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

ADMIN-230

Administering Cloudera on premises

Resource Management

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

YARN Queues and Jobs

- Install and Configure YARN Queues
- Running and Managing jobs

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