Administrator Training: CDP Private Cloud Base

Overview

Cloudera's four-day administrator training course for CDP Private Cloud Base provides participants with a comprehensive understanding of all the steps necessary to operate and maintain on-premises clusters using Cloudera Manager. From installation and configuration through load balancing and tuning, this Cloudera training course is the best preparation for the real-world challenges faced by administrators who run CDP Private Cloud Base.

What you'll learn

Through instructor-led discussion and interactive, hands-on exercises, you will learn how to:

Install Cloudera Manager

Use Cloudera Manager to install a CDP Private Cloud Base cluster

Configure and monitor the cluster using Cloudera Manager

Understand, evaluate, and select the most appropriate data storage option

Optimize cluster performance

Perform routine cluster maintenance tasks

Detect, troubleshoot, and repair problems with the cluster

What to expect

This course is best suited to systems administrators who have at least basic Linux experience. Prior knowledge of CDP, nor earlier platforms such as Cloudera's CDH or Hortonworks HDP, is not required.

Book the course

How would you like to train?

Course Details

Cloudera Data Platform

Industry Trends for Big Data

The Challenge to Become Data-Driven

The Enterprise Data Cloud

CDP Overview

CDP Form Factors

CDP Private Cloud Base Installation

Installation Overview

Cloudera Manager Installation

CDP Runtime Overview

Cloudera Manager Introduction

Cluster Configuration

Overview

Configuration Settings

Modifying Service Configurations

Configuration Files

Managing Role Instances

Adding New Services

Adding and Removing Hosts

Data Storage

Overview

HDFS Topology and Roles

HDFS Performance and Fault Tolerance

HDFS and Hadoop Security Overview

Working with HDFS

HBase Overview

Kudu Overview

Cloud Storage Overview

Data Ingest

- Data Ingest Overview
- **File Formats**
- Ingesting Data using File Transfer or REST Interfaces
- Importing Data from Relational Databases with Apache Sqoop
- Ingesting Data Using NiFi
- **Best Practices for Importing Data**

Data Flow

- Overview of Cloudera Flow Management and NiFi
- NiFi Architecture
- Cloudera Edge Flow Management and MiNiFi
- **Controller Services**
- Apache Kafka Overview
- Apache Kafka Cluster Architecture
- Apache Kafka Command Line Tools

Data Access and Discovery

- Apache Hive
- Apache Impala
- Apache Impala Tuning
- Search Overview
- Hue Overview
- Managing and Configuring Hue
- Hue Authentication and Authorization
- CDSW Overview

Data Compute

YARN Overview

Running Applications on YARN

Viewing YARN Applications YARN Application Logs MapReduce Applications YARN Memory and CPU Settings Tez Overview Hive on Tez ACID for Hive Spark Overview How Spark Applications Run on YARN Monitoring Spark Applications

Managing Resources

Configuring cgroups with CPU Scheduling

The Capacity Scheduler

Managing Queues

Impala Query Scheduling

Planning Your Cluster

General Planning Considerations

Choosing the Right Hardware

Network Considerations

CDP Private Cloud Considerations

Configuring Nodes

Advanced Cluster Configuration

Configuring Service Ports

Tuning HDFS and MapReduce

Managing Cluster Growth

Erasure Coding

Enabling HDFS High Availability

Cluster Maintenance

Checking HDFS Status

Copying Data Between Clusters

Rebalancing Data in HDFS

HDFS Directory Snapshots

Host Maintenance

Upgrading a Cluster

Cluster Monitoring

Cloudera Manager Monitoring Features

Health Tests

Events and Alerts

Charts and Reports

Monitoring Recommendations

Cluster Troubleshooting

Overview

Troubleshooting Tools

Misconfiguration Examples

Security

Data Governance with SDX

Hadoop Security Concepts

Hadoop Authentication Using Kerberos

Hadoop Authorization

Hadoop Encryption

Securing a Hadoop Cluster

Apache Ranger

Apache Atlas

Backup and Recovery

Private Cloud / Public Cloud

CDP Overview

Private Cloud Capabilities

Public Cloud Capabilities

What is Kubernetes?

WXM Overview

Auto-scaling

"Administrator training gave me an excellent jumpstart on acquiring the knowledge I needed to address my customers' big data and cloud challenges."

Canonical

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Learn more

Administrator Certification

Upon completion of the course, attendees are encouraged to continue their study and register for the Cloudera Certified Administrator (CCA) (/about/training/certification/cdhhdpcertification/cca-admin.html) exam. Certification is a great differentiator. It helps establish you as a leader in the field, providing employers and customers with tangible evidence of your skills and expertise.

Get certified (/about/training/certification.html)

Advance your career

Cloudera Administrators are among the most in-demand roles. Check out some of the job opportunities currently listed that match the professional profile, many of which seek CCA qualification.

Job opportunities

Private training

We also provide private training at your site, at your pace, and tailored to your needs.

Onsite request (/about/training/private-training.html)

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