Cloudera Data Platform: Security Administration for CDP Private Cloud Base

Course Details

CDP Secure by Design

- CDP Security Models
- Architecture for CDP Security

Project Planning for Securing CDP

- Roles and Responsibilities
- Project Plan Stages

Connecting to Directory Services

- Architecture for Identity Management
- Comparing Directory Services
- Connecting to Lightweight Directory Access Protocol

Hardening Networks and Hosts

- CDP Requirements for Networks
- CDP Requirements for Hosts

Protecting Data in Motion

- Architecture for Transport Layer Security
- Deploying TLS using Auto-TLS
- Managing CDP services within TLS

Managing Authentication with Kerberos

- Architecture for Kerberos
- Deploying Kerberos
- Managing CDP services within Kerberos

Deploying Authorization

- Architecture for Apache Ranger

- Deploying Ranger
- Architecture for Atlas
- Deploying Atlas

Protecting Data at Rest

- Architecture for HDFS encryption
- Deploying Key Management System with Key Trustee Server
- Creating and managing encryption zones

Creating Single Sign-On with Knox Gateway

- Architecture for Knox Gateway
- Deploying Knox Gateway SSO

Managing Authorization with Ranger

- Creating resource policies
- Creating masking policies
- Creating Row Level Filtering policies

Classifying Data with Atlas

- Classifying Data with Tags
- Creating Ranger Tag Policies
- Creating Ranger Masking Policies

Auditing CDP

- Auditing access on hosts
- Auditing users with Ranger
- Auditing lineage with Atlas

Bringing Applications Aboard CDP

- Creating multi-tenant environments

Achieving Compliance

- Threat and Risk Modeling for CDP
- Regulatory Compliance