CDP Admin: Building Secure Clusters (CDPA-BSC)

ID CDPA-BSC   **Preis** US$ 3'140.– (exkl. MwSt.)   **Dauer** 4 Tage

Zielgruppe

This course is intended for Linux administrators who are tasked with administering CDP.

Voraussetzungen

We recommend a minimum of 3 to 5 years of system administration experience. Students must have proficiency in Linux CLI and should be familiar with Linux shell scripts. Knowledge of Transport Layer Security, Kerberos, and SQL select statements is helpful. Students must have access to the internet to reach Amazon Web Services (AWS).

Kursziele

In this course, you will come to understand:

- The CDP "Secure by Design" models, architecture, and tools
- Project planning for implementing a fully secured CDP
- CDP administrator recommended best practices for security
- How to create encryption zones and security zones for data isolation
- Advanced access control policies and how to use data lineage tools
- How to achieve regulatory compliance

Kursinhalt

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

Weltweite Trainingscenter

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