

Module Title : Course : Data Domain System Administration

Duration : 4 days

Course Description

The Data Domain System Administration course provides the knowledge and skills needed for managing Data Domain systems. The course provides lecture and hands-on learning about Data Domain system concepts, verifying system configuration, managing network interfaces, configuring and managing a VTL, performing data backups and recoveries, managing data security, DD Boost and replication, planning for capacity and throughput, and monitoring and upgrading a Data Domain system.

Audience

This course is intended for administrators, support personnel, and others responsible for using and managing Data Domain systems.

Prerequisites

To understand the content and successfully complete this course, a student should have an understanding of computer storage, networking and backup concepts.

A student must also successfully complete the EMC Data Domain Technology and System Introduction eLearning course before attending the Data Domain System Administration course.

A list of specific prerequisite courses can be found in EMC Education Services Learning Management System.

At Course Completion

Upon successful completion of this course, participants should be able to:

- Describe deduplication
- Describe the Data Domain operating environment, including Data Domain deduplication
- Identify and configure Data Domain data paths
- Perform a Data Domain system initial setup
- Access and copy data to a Data Domain system
- Configure and manage Data Domain network interfaces
- Describe and configure a VTL
- Customize and manage a Data Domain deduplication file system
- Describe and perform data replication and recovery
- Configure and manage data security on a Data Domain system
- Describe DD Boost
- Perform a DD Boost backup

- Describe capacity and throughput planning
- Monitor a Data Domain system

Course Outline

The content of this course is designed to support the course objectives. The following focus area are included in this course:

Day 1

- Technical OverviewData Domain Overview
 - Deduplication Basics
 - EMC Data Domain Data Invulnerability Architecture (DIA) Overview
 - EMC Data Domain Stream-Informed Segment Layout (SISL™) Scaling Architecture Overview
 - EMC Data Domain File Systems Introduction
 - EMC Data Domain Protocols Overview
 - EMC Data Domain Data Paths Overview
 - EMC Data Domain Administration Interfaces
- Basic Administration
 - Verify Hardware
 - Manage System Access
 - Introduction to Monitoring a Data Domain System
 - Licensed Features
 - Upgrading a Data Domain System

Day 2

- Managing Network Interfaces
 - Configuring Network Interfaces
 - Link Aggregation
 - Link Failover
 - VLAN and IP Alias Interfaces
- CIFS and NFS
 - CIFS
 - NFS
- File System and Data Management
 - Configuring and Monitoring MTrees
 - Snapshot Operations
 - Fast Copy
 - File System Cleaning
 - Monitoring File System Space Usage

Day 3

- Data Security
 - Data Domain Retention Lock
 - Data Sanitization
 - Encryption of Data at Rest
- Data Replication and Recovery
 - Data Replication
 - Configuring Replication
 - Monitoring Replication
 - Data Recovery
- Tape Library and VTL Concepts
 - Data Domain VTL Overview
 - VTL Planning
 - Configuring Data Domain as a VTL

Day 4

- DDBoost
 - DD Boost Overview and Features
 - Configuring Data Domain to Use DD Boost
- Sizing, Capacity and Throughput Planning and Tuning
 - Capacity Planning
 - Throughput Planning
 - Model Capacity and Throughput Performance
 - Throughput Monitoring and Tuning

In addition to lecture and demonstrations, this course includes labs designed to allow practical experience for the participant.