

PowerScale Administration

Course Description

Course Duration

40 hours

Overview

The PowerScale Administration course prepares students to implement, configure and administer the Dell PowerScale NAS Solution. Topics include an overview of hardware, the configuration and verification of basic and advanced networking, authentication, identity management and authorization, client and data access, data layout, and OneFS modules such as SmartPools, SnapshotIQ, SyncIQ, SmartDedupe, and others. This training consists of 8 modules. The total time required to complete this course and the accompanying lab exercises is approximately 5 days.

This course is an update to the Isilon Administration and Management course

Audience

This course is intended for Dell Technologies partner and customer personnel involved with the administration of PowerScale solutions.

Prerequisite Knowledge/Skills

To understand the content and successfully complete this course, a student must have a suitable knowledgebase/skill set. The student must understand:

- PowerScale Concepts (Course ID: ES131STG01028)
- PowerScale Implementation
- Networking fundamentals such as TCP/IP, DNS and routing

Course Objectives

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

- Understand the PowerScale cluster architecture
- Explain the building blocks of a PowerScale cluster and different types of access to the cluster
- Navigate the details of client and file access
- Configure OneFS features
- Utilize the tools to perform cluster monitoring

Course Outline

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

- Module 1 – NAS, PowerScale, and OneFS

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- NAS
 - PowerScale Hardware
 - OneFS Management Interfaces
 - Common Cluster Operations
 - OneFS Directory Structure
- Module 2 – Networking
 - Authentication Providers
 - Access Zones
 - Groupnets
 - Subnets – SmartConnect Zones
 - IP Address Pools
- Module 3 – Configuring Identity Management and Authorization
 - Role-Based Access Control
 - User Identity Management
 - Authorization
- Module 4 – Configuring Client Access to Data
 - OneFS Caching
 - Configuring SMB Shares
 - Configuring NFS Exports
 - Configuring S3 Buckets
- Module 5 – Foundations of Data Protection and Layout
 - File Striping
 - Data Protection
 - Protection Management
 - Data Layout
- Module 6 – Configuring Storage Pools
 - Storage Pools
 - File Pools
 - SmartPools
 - CloudPools
- Module 7 – Configuring Data Services
 - File Filtering
 - SmartQuotas
 - Deduplication (SmartDedupe)
 - SnapshotIQ
 - SyncIQ
 - SmartLock
- Module 8 – Monitoring Tools
 - PowerScale HealthCheck
 - DataIQv1
 - InsightIQ
 - isi statistics

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

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Course Delivery Modes and Product Version Information

Refer to the **Product Version Description** document for a list of Delivery Modes and product versions covered by this course.

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