

# PowerScale Advanced Administration

## Course Description

### Course Duration

5 Days

### Overview

This course provides an experienced Dell EMC PowerScale Administrator advanced information about PowerScale cluster operations. The course provides the expertise necessary for an Administrator to consider and plan for future growth, the understanding to implement best practices to avoid common issues, and the ability to quickly diagnose the source of issues and work efficiently with PowerScale support resources. It also provides advanced details about PowerScale disaster recovery and the expertise necessary for an administrator to consider and plan for disasters.

**Audience:** This course is intended for all audiences.

### Prerequisite Knowledge/Skills

To understand the content and successfully complete this course, a student must have a suitable working knowledge of the following:

- Networking fundamentals such as TCP/IP, DNS and routing
- PowerScale hardware troubleshooting and maintenance procedures
- PowerScale Concepts Course
- PowerScale Administration Course

### Course Objectives

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

- Configure cluster monitoring and reporting features
- Identify and resolve networking and SmartConnect issues
- Understand multiprotocol permissions
- Understand the OneFS Job Engine
- Perform performance analysis
- Discuss the data protection and disaster recovery features of OneFS
- Optimize and troubleshoot identified issues in the cluster

### Course Outline

The content of this course is designed to support the course objectives.

- Module 1 - Concepts
  - A Day in Life of a Storage Administrator
  - Disaster Recovery Introduction
  - PowerScale Disaster Resilience
  - OneFS Domains
  - Troubleshooting PowerScale Cluster

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- Module 2 – Advanced Access
  - Networking Architecture
  - Access Zones
  - SmartConnect Advanced and DNS
  - Authentication Providers
  - Protocols
- Module 3 – Advanced Authorization
  - Multiprotocol Permissions
  - User Mapping
- Module 4 – Reporting
  - Events and Alerts
  - Log Files
  - Notifications
  - Protocol Auditing
  - SNMP
- Module 5 – OneFS Job Engine
  - Job Engine Architecture
  - Job Types, Priority, and Impact
  - Job Engine Management
- Module 6 – OneFS Services
  - SFSE – Small Files Storage Efficiencies
  - Migration
  - SmartQuotas Advanced
  - SnapshotIQ Advanced
  - SyncIQ Advanced
- Module 7 – Disaster Recovery
  - Data Protection and Disaster Recovery
  - SyncIQ DR
  - NDMP
  - Cloud and Virtual Storage Strategies
- Module 8 – Performance and Monitoring
  - HealthCheck
  - Performance Foundation
  - Performance Analysis
- Appendix

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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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