

PowerFlex Administration

Course Description

Course Number

ESCPXS08379

Course Duration

3 Days

Product Version

PowerFlex
Rack/Appliance/Software 4.6

Delivery Mode

Classroom

Overview

This course guides learners through managing a PowerFlex System, picking up where implementation finishes, and continuing through administration to sustain operations. Deployment of production cluster components using both configuration text files and Templates/Resource Groups are discussed. It covers managing PowerFlex components such as MDM, SDS, SDC, and volumes. Further management activities such as user configuration and alerting are also covered. Labs, demonstrations, and simulations complete the learning experience.

Audience

This course is intended for those who will be involved in provisioning configuring, administering, and managing a PowerFlex solution.

Prerequisite Knowledge/Skills

To understand the content and successfully complete this course, learners must have a suitable knowledgebase/skill set. The learner must have an understanding of:

- Storage networking infrastructures and concepts
- Monitoring and reporting concepts
- Virtualized data center concepts
- PowerFlex product concepts

Course Objectives

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

- Recommend the correct PowerFlex model based on a given set of circumstances.
- Understand the major software components, and how they interact.
- Successfully complete the post-installation tasks.
- Successfully perform a PowerFlex upgrade.

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- Use a PowerFlex Template to customize the production deployment of a node and deploy the node from a Resource Group
- Successfully configure the features of PowerFlex system such as:
 - Protection Domain
 - Fault Sets
 - Storage Pools
 - Volumes
 - Maintenance Mode
 - Snapshots
 - Replication
- Perform steps required to connect a new node to the existing PowerFlex cluster.
- Successfully add, configure, and remove users and passwords for various components in a PowerFlex system.
- Successfully add, configure, and remove for block storage on a PowerFlex system.
- Successfully add, configure, and remove Storage Data Servers on a PowerFlex system.
- Successfully reconfigure MDM's in a PowerFlex system.
- Successfully configure both a host and the PowerFlex cluster to utilize NVMe/TCP.
- Successfully add and configure CloudLink on a PowerFlex system.
- Successfully setup alerting options in a PowerFlex Cluster

Course Outline

The content of this course is designed to support the course objectives. Practical experience is included throughout the course.

- PowerFlex Introduction
- Model Breakdown & Positioning
- Software Architecture
- Management Interfaces Overview
- Outline the Deployment Processes

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- Post-Installations Tasks and "Getting Started" Wizard
- Production Cluster Deployment (CSV)
- PowerFlex Cluster Upgrades
- PowerFlex Templates & Resource Groups
- Protection Domain Configuration
- Fault Set Configuration
- Storage Pools Configuration
- Create, Modify, and Delete Volumes
- Enter and Exit Maintenance Modes
- Perform Node Expansion
- Manage Users and Passwords in a PowerFlex Cluster
- Protect Volumes using Snapshots
- Replicate Volumes Between Clusters
- Configure Storage Data Servers
- Reconfiguring MDMs
- NVMe/TCP Configurations
- CloudLink in a PowerFlex Cluster
- PowerFlex Alerting Configuration

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

Proven Professional Certification Information

Industry-recognized certifications designed to validate skills across modern technology domains and roles. For more information visit - [Dell Certifications | Career-Boosting IT and Tech Certifications | Dell Learning](#).

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