



# Ideas and Value for Companies

## DELL POWERSCALE ADVANCED DISASTER RECOVERY

This course is designed to provide advanced details about PowerScale disaster recovery. The course provides the expertise necessary for an administrator to consider and plan for disasters. It mainly focuses on options and configurations to ensure PowerScale solution continuous availability and disaster recovery within well-defined RPO and RTO targets



### COURSE DURATION

2 days ILT



### AUDIENCE

This course is intended for all audiences



### PREREQUISITE KNOWLEDGE

To understand the content and successfully complete this course, a student must have a suitable knowledgebase/skill set. The student must have an understanding of: PowerScale scale-out storage platform; Basic PowerScale cluster administration tasks; PowerScale hardware troubleshooting and maintenance procedures; Basic networking skills; Network protocols including TCP/IP, DNS, SMB, and NFS

## OBJECTIVES

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

- Explain business continuance and disaster recovery
- Discuss PowerScale data protection

- Understand PowerScale backup and replication options for various RPO and RTO goals
- Perform a simulated failover and failback test in a lab environment
- Review the dependencies for a functional PowerScale cluster and how third-party systems need DR plans as well

## CONTENTS

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

### Disaster Recovery Introduction

- Disasters and Responses
- Terminology
- Business Continuity Versus Disaster
- Disaster Definition
- Types of Disaster
- Disaster Resistance
- PowerScale and Disaster Resistance
- Disaster Resilience
- PowerScale and Disaster Resilience
- Disaster Recovery
- PowerScale and Disaster Recovery
- Discussion – Disaster and Responses
- After Disaster
- Acceptable Levels of Disruption
- Hot, Warm, and Cold Sites
- Minimal Function for Recovery
- Disaster Recovery Physical Topology – Warm Site
- PowerScale Disaster Recovery Features
- Failover Orchestration
- Business Continuity Plan
- Disaster Recovery Plan
- Example DR Plan Activation – Cold Site
- Example DR Plan Activation – Warm Site

- Scenario – Resistance Plan
- Scenario – Resilience Plan
- Scenario – Recovery Plan
- Discussion – After Disaster

### Disaster Resilience

- Protection Levels and Redundancy
- PowerScale Resiliency
- OneFS Fault Tolerance
- Protection Levels Review
- Data Layout Review
- Neighborhood Review
- Gen 6 Chassis Failure
- Quorum
- Back-end Network Resilience
- Sizing for Maximum Resilience
- Safety Margins
- Lab 2.1 – Sizing and Configuring for Max Resilience
- Data Reprotection
- SmartFail Overview
- FlexProtect Overview
- FlexProtect Impact
- FlexProtect Priority and Impact Policy
- Lab 2.2 – Local Data Protection
- Respond, React and Repair
- Assess Cluster
- Check Jobs

- Track Activity
- Under-protected
- Under Protected Cluster
- Data Recovery
- Hub and Spoke – One to Many
- Hub and Spoke – Many to One
- Cascading
- Bandwidth

### Replication and Disaster Recovery

- Types of Replication
- PowerScale Data Protection
- Data Protection Using Snapshots – Overview
- Snapshots for Backup
- Snapshots for Replication
- Initial Synchronization and Incremental Synchronization
- Data Protection Use Case
- Two-way Remote Data Protection
- NDMP Backup Methods for Disaster Recovery
- Edge to Core to Cloud
- Large Scale and Global Operations
- Large Scale Disaster Recovery Challenges
- Cluster Configuration Data
- Recommended Folder Structure
- Initial Synchronize Challenge
- Initial Synchronize – Local
- Recovery Point Objective
- PowerScale and Eyeglass
- Topology Overview with Superna Eyeglass
- Configuring with PowerScale
- Advantages and Disadvantages
- Lab – Video
- NDMP
- NDMP Backup Overview
- NDMP Two-way Backup Overview
- Three-way Backup Overview
- Using NDMP for Disaster Recovery
- Data Loss Protection with Direct Access Recovery

### Data Protection with SynclQ

- SynclQ Overview
- SynclQ – PowerScale Replication
- When to Use SynclQ
- SynclQ Capabilities
- SynclQ Functional Overview



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#### DISCOVER COURSE CATALOG

<https://formazione.nposistemi.it>