

Dell PowerProtect DP Series Appliance Administration

Course Description

Course Duration

5 Days

Overview

The PowerProtect DP Series Appliance Administration course provides the knowledge and skills for configuring, managing, and maintaining the DP series appliances. Respective backup and restore configurations are created for different production environments. They include VMware virtual machines, application servers, and NAS. The DP series appliance components are explained in detail. A separate on-demand lab aligns with this course to reinforce these skills through exercises.

Audience

This course is intended for administrators of the PowerProtect DP series appliances.

Prerequisite Knowledge/Skills

To understand the content and successfully complete this course a student must understand the following:

- Software tasks and challenges
- General backup scenarios
- Overall understanding of the DP series models
- Application backup tasks and challenges

Course Objectives

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

- Analyze the models and architecture of the Dell PowerProtect DP series appliances.
- Analyze the management interfaces of the Dell PowerProtect DP series appliances.
- Perform Dell PowerProtect DP Series Appliance administrative tasks.
- Configure backups and restores using Data Protection Central.
- Utilize Dell Cloud Tier and Cloud DR.
- Utilize the Search component to monitor backups.
- Use Data Protection Central to perform system monitoring, maintenance, capacity management, and reporting.

Course Outline

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

- Introduction to the Dell PowerProtect DP Series Appliances Data Protection Challenges
 - Dell PowerProtect DP Series Appliances
 - DP Series and Supported Environments
 - PowerProtect DP Series Appliance Components
 - Security Features and Protocols
- Dell PowerProtect DP Series Appliances Family PowerProtect DP Series Appliances
 - Performance and Capacity
 - Licensing
- Hardware Overview
 - Hardware and Software Details - DP4400, DP5900, DP8400, and DP8900
 - DP Series Software Packages and Component Release Versions
 - DP4400 Network Options
 - DP4400 Network Diagram
 - Dell PowerProtect DP Series User Interfaces for Configuration and Management
 - Data Protection Central
 - Product Documentation and Support Tools
- PowerProtect DP Series Appliance Overview
 - PowerProtect DP Series Appliance Configuration Manager
 - ACM and Upgrade
 - ACM Home and Basic Management Tasks
 - Protection Software
 - Launch Protection Software
 - Protection Storage
 - Launch Protection Storage
 - Reporting and Analytics
 - Launch Reporting and Analytics
 - Search
 - Launch Search
 - General Settings
 - Data Protection Central in ACM
 - Launch Data Protection Central
 - Data Protection Central

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- Data Protection Central Dashboard View
- Data Protection Central User Interface
- Data Protection Central Monitoring
- Data Protection Central System Management
- Backup and Restore
 - Protection Software Overview
 - Data Protection Functions
 - Systematic Fault Tolerance
 - Protection Software and Protection Storage Integration
 - Database Clients
 - Introduction to Domains
 - Default and Special Domains
 - Domain Tree Structure
 - Access AUI using Data Protection Central
 - Managing Domains
 - Backup Software Clients
 - Account Management for Clients
 - Client Backup Types
 - Policy Resources
 - Datasets
 - Create a Dataset
 - Schedules
 - Add a New Schedule
 - Retentions
 - Create a Retention
 - Adding Backup Policies
 - Manage Backup Policies
 - Perform a Scheduled Backup
 - Perform an On-Demand Backup of a Backup Policy
 - Backup Considerations
 - Backup Window
 - Maintenance Window
 - VM Backup Overview
 - Define vCenter and VMware Clients
 - Deploy Avamar Proxy
 - Add a VMware Client
 - Rules Configuration
 - Create a Dataset
 - VM Image Backup - Create and Run Backup Policy

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- Initiating a Restore
 - Search and Restore
 - Monitoring Restore Activity
 - Backup – MORE ACTIONS
 - Fitness Analyzer Overview
 - About the Interface
 - Accessing Fitness Analyzer
 - Use Fitness Analyzer
- NDMP Accelerator for NAS Systems
 - Typical Backup Process
 - NDMP Accelerator Support in DP Series Models
 - Plug-In Support
 - Virtual NDMP Accelerator
 - Accelerator Software Installation
 - NDMP Backup Levels
 - Multiple Simultaneous Backups
 - Performing an On-Demand Backup
 - Performing an NDMP Restore
 - Restoring Directly to File System
 - NDMP Restore Considerations and Limitations
- Protection Storage Configuration and Monitoring
 - Protection Storage Overview
 - Protection Storage Deduplication
 - DD Boost Overview
 - Storage Units
 - PowerProtect for Database Application Agent
 - Creating a Storage Unit
 - Adding DD Boost Users and Clients
 - Procedure to Add DD Boost Users and Clients
 - Dell Cloud Tier Overview
 - Dell Cloud Tier Components and Platform Support
 - Cloud Tier Capacity Options
 - Deduplication and Cleaning
 - Cloud Tier Configuration Overview
 - Enable the Cloud Tier
 - Create Cloud Units
 - Configuring Protection Software for Cloud Tier
 - Creating a Tier Policy
- Search for Backups

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- Search in DP Series Appliance
- Administration Views
- Search Window
- Basic Searches
- Search with Filters
- Advance Search Using Lucene Query
- Search with Full Content Indexing
- Configure Virtual Machine Indexing from Protection Software
- Prepare to Restore Files
- Restore Files from File System and NDMP Backups
- Restore Files from VM Image Backup
- Search Users and Groups
- Monitoring Jobs in Search
 - Search Jobs
 - Job Types
 - Job Statuses
 - Monitoring and Filtering Jobs
 - Stop Pending or Running Jobs
 - Working with Collections and Reconciliations
- Reporting and Analytics
 - Reporting and Analytics in DP Series Appliance
 - Data Protection Advisor Overview
 - Data Protection Advisor Architecture
 - Analysis Engine Architecture
 - Reports Overview
 - Run Reports
 - Analyze Reports
 - Reporting and Analytics Management
- Protection Storage Monitoring and Expansion
 - Monitoring File System Space Usage
 - Monitoring File System Space Usage with DD System Manager
 - Monitoring File System Space Usage with DD Series CLI
 - Capacity Expansion Overview
 - Adding Capacity
- PowerProtect DP Series Appliance Replication
 - Replication Overview
 - DP Series Replication Configurations
 - Best Practices and Replication Scheduling
 - Replication Destination

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- Replication Policies
- Replication Policy Management
- Location of Replicas on Target System
- Replication Job Activities with Data Protection Central
- Replicas at Source
- View Replicated Backups
- DP Series Appliance and Dell Cloud Disaster Recovery
- Cloud DR Architecture
- Cloud DR Targets
- Protection to Cloud Overview
- Rapid Recovery
- Failback
- Cloud DR Configuration Overview
- Cloud DR Configuration
- Configure Policy Cloud DR
- Start Backup
- Asset Protection - Rapid Recovery Images
- Support and Troubleshooting
 - Support and Troubleshooting
 - Troubleshooting in ACM
 - Information in Appliance Configuration Manager
 - ACM Health Page
 - Troubleshooting in IDPA System Manager
 - SSO Issue and Reregister SSO
 - Documentation, Support Contact, and Knowledge Base Articles
 - DP Series Support Home Page
 - Knowledge Base
 - Secure Remote Services
 - Create and Download Log Bundles
 - Securing, Upgrading, Maintaining of DP Series Appliances
 - DP Series System VMs
 - DP Series Resiliency
 - Upgrade and Maintenance Releases

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

Course Delivery Modes and Product Version Information

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

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