

Dell Avamar Implementation and Administration

Course Description

Course Duration

5 Days

Overview

This course explains and demonstrates the deployment, configuration, and use of Avamar. Students learn how to deploy Avamar Virtual Edition; how to upgrade all models of Avamar to the latest release; how to configure Avamar for operation; how to create and manage user accounts; how to configure and initiate backup and restore of data; and how to monitor Avamar operation. This course includes labs to reinforce these skills through exercises.

Audience

This course is intended for Dell internal, external customers and partners, whose roles are backup administrators, software support specialists, and others who install, configure, and support Avamar environments.

Prerequisite Knowledge/Skills

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

- A basic knowledge of application backup requirements.
- An understanding of host to storage operations.
- A general knowledge of networking protocols.
- Linux and Windows system administration
- PowerProtect DD systems and administration

Course Objectives

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

- Describe the Avamar solution, its component, and processes
- Locate Avamar installation procedures and best practices
- Deploy Avamar
- Perform an upgrade of Avamar
- Start and stop Avamar processes
- Configure Avamar server software
- Integrate supported systems into Avamar
- Verify operation of Avamar
- Establish remote connectivity for support monitoring and assistance

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- Troubleshoot and resolve installation or upgrade issues
- Perform Avamar administrative tasks using various interfaces
- Run scheduled and on-demand backups for a variety of systems
- Restore files using Avamar Administrator and Avamar Client interfaces
- Describe and configure Avamar replication
- Describe Avamar server daily maintenance activities
- Use Avamar tools to perform system monitoring, maintenance, capacity management, and troubleshooting
- Deploy Avamar clients
- Integrate Avamar with Data Domain

Course Outline

Avamar Concepts

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

- Explore Dell Avamar
- What is Avamar
- Avamar Features
- Avamar Data Deduplication
- Avamar System Fault Tolerance
- Avamar Terminology
- Examine Dell Avamar Architecture
 - System Components
 - Avamar Server Editions
 - Avamar Data Store (ADS) Specifications
 - Server Node Types and Configurations
- Integration with Dell Avamar
 - Avamar NDMP Integration
 - Avamar Integrated with PowerProtect DP series appliances
 - Avamar Integrated with PowerProtect DD series appliances
 - Avamar Support for Virtual Machines
 - Sizing with PowerProtect DD

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Avamar Implementation

- Explore Avamar Virtual Edition
 - What is AVE
 - AVE Supported Environments

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- AVE Configurations and Pre-requisites
- Examine AVE Configurations
 - Appropriate Environments for AVE
 - AVE Installation in VMware Environment
 - VM Disk Configuration
- Explore the Install and Upgrade
 - Simulation Activity- Install AVE
 - Upgrading Avamar
 - Post Installation Activities
- Analyze Expanding AVE with ave_scale Command
 - What is the ave_scale command
 - Running the ave_scale command
 - Examples of the ave_scale command

Avamar Administration

- Avamar Overview
- Avamar System Components
- Avamar Client Processes
- Avamar Administrative and Management Interfaces
- Client-Server Data Port Usage and Firewall Requirements
- Avamar AUI Dashboard Overview
- Avamar AUI Dashboard Demo
- Avamar Processes and Port Requirements
- Examine Avamar Backup Client Software
 - Avamar Client Structure and Processes
 - Avamar Backup Client Software and Requirements
 - Avamar Windows Client Software Plug-Ins
 - Avamar Database Clients
 - Avamar Desktop/Laptop Client Overview
 - Avamar Desktop/Laptop Authentication
 - Installing Avamar Windows Client Software
 - Avamar Client Directory Structure
- Exploring Avamar Account Management
 - Asset Management
 - Avamar Domains
 - Avamar Users and Roles
 - Creating and Editing Avamar Users
 - Creating and Editing Domains
 - Registering and Activating Avamar Clients
 - Managing Directory Services

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- Avamar Client Manager
- Managing Avamar Backups
 - Avamar Backups
 - Avamar Policies
 - Avamar Schedules
 - Allowing Overtime Option
 - Avamar Retentions
 - Creating a Dataset
 - Managing Backups
 - Avamar Backup and Maintenance Windows
- Examine Avamar and PowerProtect DD Integration
 - Avamar Integration with PowerProtect DD Overview
 - PowerProtect DD Integration Features
 - Types of PowerProtect DD Configurations with an Avamar Environment
 - Backup Processes for PowerProtect DD with Avamar
 - Adding and Deleting a PowerProtect DD System
 - Restoring from PowerProtect DD with Avamar
 - Instant Access
 - Impacts of Avamar Maintenance Activities on PowerProtect DD
- Managing Avamar Restores
 - Types of Avamar Restores
 - Operating System Server Recovery Solutions
 - Volume Snapshot Services (VSS) Recovery Pre-Requisites
 - Avamar Bare Metal Recovery Wizard
 - Windows Full System Backup
- Exploring VMware Backups and Restores
 - Avamar Guest Backup Overview
 - Avamar Image Backup Overview
 - VMware Image Components and Backup Processes
 - VMware Image Backup Configuration
 - Auto-Discovery of Virtual Machines
 - Virtual Machine Restore Overview
 - Instant Access – PowerProtect DD
 - File-Level Restore (FLR) Process Overview
- Managing Replication
 - Avamar Replication Overview
 - Replication Types
 - Avamar to PowerProtect DD Replication
 - PowerProtect DD Appliance Destination Setting
 - Replication Destination
 - Setting up Replication Policies and Schedules

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- How to Perform and Monitor On-Demand Replication
 - Avamar Data Migration Replication
- Exploring Cloud Tier with Avamar
 - Cloud Tier Overview
 - Cloud Tier Configuration
 - Recalling Backups from the Cloud Tier
 - File Level Restore from Cloud Tier
- Examine System Maintenance and Monitoring
 - Avamar Profiles
 - Creating Customer Event Profile
 - Event Management in AUI
 - Avamar Email Home/Connect EMC
 - Avamar Checkpoints
 - Rolling Back a Checkpoint
 - Avamar Monitoring
 - Backup and Maintenance Windows
 - Impact of Maintenance Activities and Backups
 - Impact of Maintenance Activities on PowerProtect DD
- Analyze Avamar Capacity
 - Avamar Server Capacity Definitions
 - Avamar Server Lifecycle
 - Capacity Thresholds
 - Using the Capacity.sh Utility
 - Monitoring Capacity with Integrated PowerProtect DD
- Explore Avamar Reporting Tools
 - Avamar Fitness Analyzer Overview
 - Fitness Analyzer Overview and Header
 - Fitness Analyzer Reports
 - Fitness Analyzer Summaries
 - Fitness Analyzer Demo
 - Running a Report with Avamar Administrator
 - Using Third-Party Reporting Tools with Avamar
- Examine Troubleshooting and Logs
 - Challenges When Managing Backups
 - Managing Backups Successfully
 - Possible Client Initialization Issues
 - Avamar **getlogs** Utility
 - MCS and CRON Logs
 - Maintenance Activity Logs

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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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