

# Dell Avamar Implementation and Administration Course Description

## Course Duration

5 Days

## Overview

This course explains and demonstrates configuration and use of Avamar. Students learn 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. A separate lab aligns with this course to reinforce these skills through exercises.

## Audience

This course is intended for system administrators, system engineers, partners, and support specialists who administer and support Dell Avamar.

## Prerequisite Knowledge/Skills

To understand the content and successfully complete this course, a student must have a suitable knowledgebase/skill set. The student must understand Data Protection use cases and expected outcomes. The student should also complete the Avamar Concepts (MR-1WN-AVAM) course.

## Course Objectives

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

- Describe the Avamar solution, its components, and processes
- Perform Avamar administrative tasks using various interfaces
- Run scheduled and on-demand backups for a variety of systems
- Restore files using AUI and Avamar Client interfaces.
- Describe and configure Avamar replication
- Describe and configure Cloud Tier
- Describe Avamar server maintenance activities
- Use Avamar tools to perform system monitoring, maintenance, capacity management, and troubleshooting

## Support Contact

[Education Services](#)

### DELL Corporation

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## Course Outline

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

Dell Avamar Virtual Edition Implementation

# Dell Avamar Implementation and Administration

## Course Description

### Course Duration

5 Days

### Overview

This course explains and demonstrates the deployment of Avamar. Students learn how to deploy Avamar Virtual Edition; how to upgrade all models of Avamar to the latest release; and how to configure and prepare Avamar for administration.

### Audience

This course is intended for customers, partners, and implementation specialists who administer and support Dell Avamar.

### Prerequisite Knowledge/Skills

To understand the content and successfully complete this course, a student must have a suitable knowledgebase/skill set. The student should also complete the Dell Avamar Concepts (MR-1WN-AVAM) course.

### Course Objectives

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

- Verify that prerequisites are met
- 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
- Troubleshoot and resolve installation or upgrade issues

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### Course Outline

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

- Explore Avamar Virtual Edition
  - Avamar Virtual Edition (AVE) Overview
  - AVE Supported Environments
  - AVE Configurations and Pre-requisites
- Examining AVE Configurations
  - VM Disk Configuration
  - Template Deployment for AVE
  - Simulation Activity
  - AVE Deployment on KVM Infrastructure
  - Deploy an AVE VM on Hyper-V
- Explore Upgrades and Post Installation Activities
  - Upgrading AVE
  - Additional Avamar Upgrades
  - Post Installation Activities
- Analyze Expanding AVE with ave\_scale Command
  - Using ave\_scale command
  - Running the ave\_scale command
  - Examples of the ave\_scale command
- Avamar Administration: Avamar Overview
  - 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 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

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- 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
  - 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
  - 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

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- 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
  - 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
  - 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
  - Running a Report with Avamar Administrator
  - Using Third-Party Reporting Tools with Avamar

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- 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

### 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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