

# Avamar Implementation and Administration (MR-7LP-AVAM633)

ID MR-7LP-AVAM633 Price US \$ 5,500.—(excl. VAT) Duration 5 days

## Who should attend

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

## Prerequisites

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 Avamar 19.1 and earlier versions.

## 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
- 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 Content

### Avamar Concepts

- Avamar Introduction
  - Backup Challenges
  - Avamar Solution
  - Key Avamar Features
  - Systematic Fault Tolerance
  - Avamar Terminology
  - Data Deduplication and Granularity
  - Avamar Deduplication Backup Process
  - Data Object Storage
  - Backup Data Storage Organization
  - Avamar Support for Virtual Machines
  - Avamar in Integrated Data Protection Appliance
  - Avamar and Data Domain Integration
  - Avamar NDMP Integration
  - Avamar in Distributed Enterprises

### Avamar Architecture

- System Components
- Avamar Server Editions
- Avamar Data Store Specification
- Server Node Types and Configuration

### Avamar Capabilities

- Administration and Management Interfaces
- Backup Clients
- Backup Policy
- Customizing Policies
- Avamar Backup
- Avamar Restore
- Avamar Encryption
- Avamar Replication
- Replication Types
- Avamar Cloud Tier
- Avamar Licensing

### Avamar Implementation

- Avamar Virtual Edition (AVE) Overview

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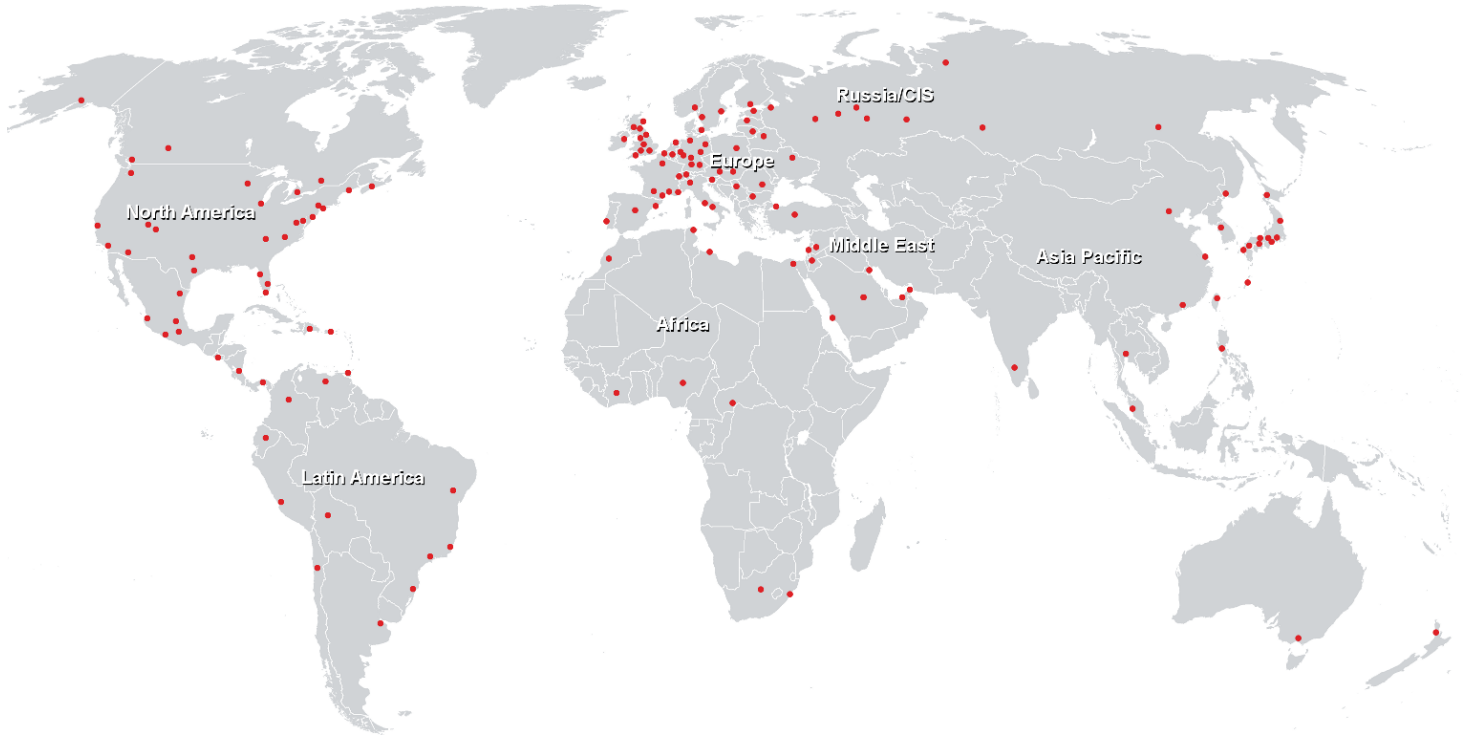
- What is AVE
  - AVE Supported Environments
  - AVE Integration
  - Server Replication
  - AVE and Data Domain Integration
- Avamar Installation
    - Pre-Requisites – AVE Installation
    - Avamar System Utilities for Implementation
    - Avamar System Utilities – Commands
    - AVE Installation in VMware Environment
    - Commercial DPS Deployer
    - Post Installation Configuration
  - Avamar Upgrade
    - Avamar OS Enhancements
    - Upgrade Requirements and Best Practices
    - Upgrading Avamar Software
    - Post-Upgrade Activities
- ## Avamar Administration
- Avamar Overview
    - Avamar Administration Tools
    - Connection Limits
    - Avamar Server Process – Notification and Reporting
    - Avamar Client Process
    - Avamar Backup Process Flow
    - Client-Server Data Port Usage and Firewall Requirements
    - Avamar Integration with Data Domain - Required Ports
    - Avamar Data Deduplication Workflow
    - More About Sticky Byte Factoring
    - More About Compression
    - Client Cache Files and the Backup Process
    - SHA-1 Hashing
    - Avamar and Data Domain Integration
    - Avamar Cloud Tier
    - Data Protection Advisor (DPA) with Avamar
    - Search with Avamar
    - Exporting Avamar Data to Tape
    - Backing Up Databases versus File System Data
    - Avamar Database Clients
    - Avamar – Database Backup Options
  - AUI Overview
    - Introduction to AUI
    - AUI Navigation Pane
    - AUI Dashboard
- Installing Avamar Backup Client Software
    - Avamar Backup Client Software
    - Verify Avamar Client System Requirements
    - Installing Avamar Windows Client Software
    - Windows Client Software Plug-ins
    - Installing Multiple Desktops and Laptops
    - Launching Avamar Windows Client Interface
    - Avamar Client Processes and Services (Windows)
    - Avamar Client Directory Structure
  - Account Management
    - Avamar Domain
    - Avamar Users
    - Avamar Authentication
    - AUI Domain Tree Structure
    - Account Management Tasks
    - Managing Directory Services
    - Registering Avamar Clients
    - Account Management for Clients
    - Using the MCCLI Command
    - Best Practices: Domains, Users, and Clients
    - Adding a Data Domain System Using AUI
  - Using Client Manager
    - Avamar Client Manager
    - Managing Clients
    - Activating Clients
  - Avamar Backups
    - Scheduled Backups
    - On-Demand Backups
    - Avamar Desktop/Laptop
    - Managing and Monitoring Backup Activity
  - Performing Restores
    - Restoring Client Data
    - Client Server Recovery with Avamar
  - Avamar Replication
  - Cloud Tier
  - System Monitoring and Maintenance
    - Avamar Server Environment
    - Daily System Monitoring Tasks
    - Daily Avamar Server Maintenance Activities
    - Managing Avamar Server Capacity
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- Logs, Troubleshooting, and Reporting
  - Avamar Processes and Logs
  - Troubleshooting
  - Avamar Reports and Fitness Analyzer

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## Training Centres worldwide



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