Fast Lane

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
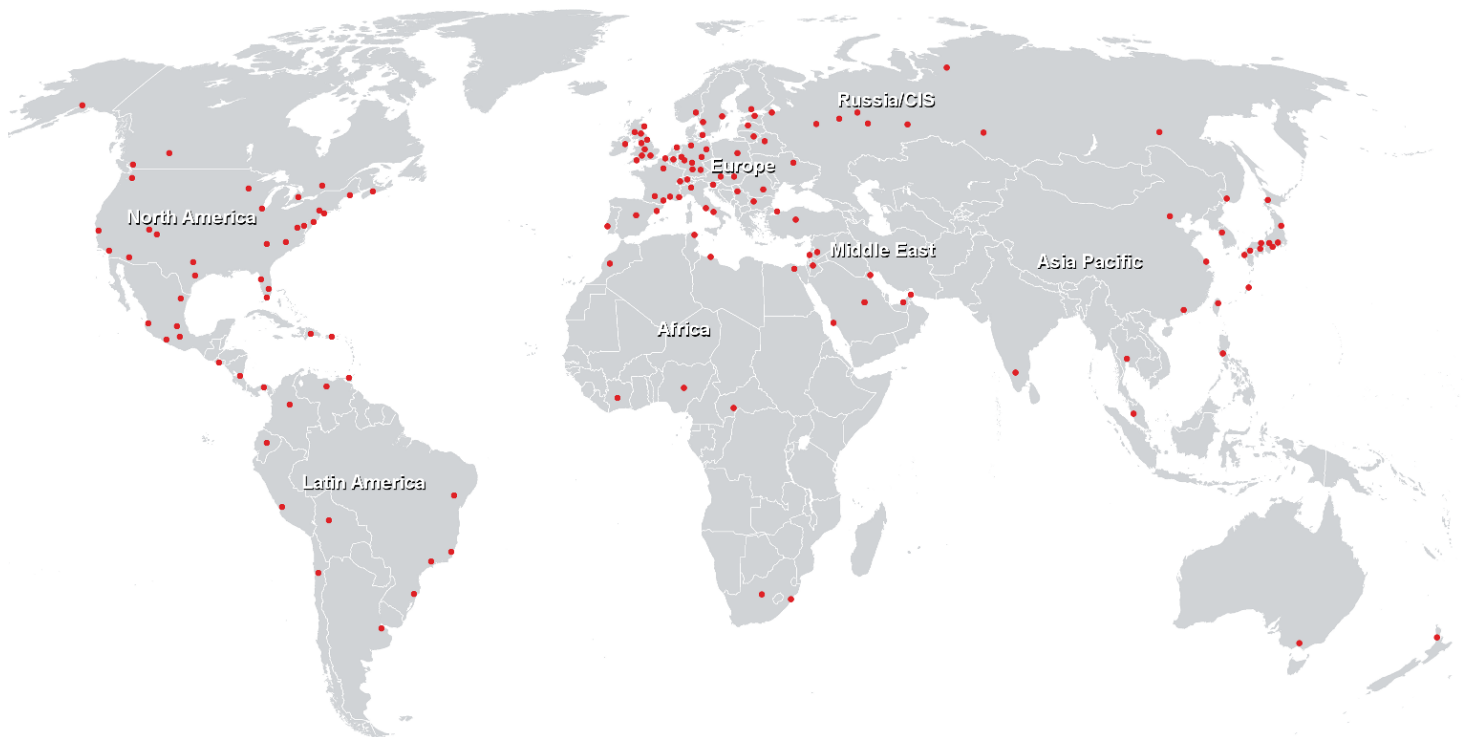- System Monitoring and Maintenance

  - Avamar Server Environment
  - Daily System Monitoring Tasks
  - Daily Avamar Server Maintenance Activities
  - Managing Avamar Server Capacity

• Logs, Troubleshooting, and Reporting

- Avamar Processes and Logs
- Troubleshooting
- Avamar Reports and Fitness Analyzer

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

Training Centres worldwide

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