

SnapProtect Solution Administration

Course Code: SPSA

Duration: 2 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

This course prepares you to operate a NetApp® SnapProtect® CommCell with the following clients: NAS, Microsoft SQL, Microsoft Exchange, VMware® vCenter and other virtual server clients. The administrative best practices for trouble-free operation are emphasized throughout the course

SKILLS COVERED

By the end of this course, you should be able to:

- Manage the essential CommCell components: resource pools, storage virtual machine (SVM) peers, and disk libraries
- Configure SnapProtect software to back up and restore volumes and directories on NAS servers
- Back up and restore SQL Server databases
- Back up and restore Microsoft Exchange mailbox servers
- Back up and restore virtual machines
- Update the CommCell to the latest SnapProtect service pack
- Perform CommCell management tasks

WHO SHOULD ATTEND?

- NetApp Professional Services
- Partners
- Customer Success Engineers

PRE-REQUISITES

- Technical Overview of the SnapProtect Management Solution
- Architecting the SnapProtect Management Solution

MODULES

Module 1: Getting Started with the SnapProtect Solution

- Describe the SnapProtect solution
- Describe SnapProtect for Open Systems
- Use the Getting Started tab to configure the initial settings of the CommCell Browser
- Describe setup configurations that impact SnapProtect operations

Module 2: The NDMP Protocol and the SnapProtect Solution

- Describe the NDMP protocol
- Node-Scoped NDMP for Clustered Data ONTAP
- Describe Cluster Aware Backup (CAB) operations
- Configure the NDMP Services for Cluster Data ONTAP 8.2 and later
- Configure the NDMP protocol in Data ONTAP systems

Module 3: Protecting Data on NAS File Servers

- Add Data ONTAP clusters and storage virtual machines (SVMs) to a CommCell
- Create NAS subclients and storage policies
- Manage NAS backup and restore operations
- Create schedule policies for NAS data

Module 4: Protecting Microsoft SQL Server Databases

- Describe Microsoft SQL Server architecture
- Backup and restore SQL Server databases
- Schedule backup operations for SQL Server database and log files

Module 5: Protecting Microsoft Exchange Servers

- Describe Microsoft Exchange clients
- Administer SnapProtect backup operations for Exchange mailbox databases
- Restore Exchange mailbox databases
- Use snap mining to perform single-mailbox recovery

Module 6: Protecting Virtual Machines

- Describe the components that protect virtual machines in a SnapProtect solution
- Define guest machines or virtual machines as subclients
- Back up and restore guest machines or virtual machines

Module 7: SnapProtect Solution Management Tasks

- Describe best practices for administering the SnapProtect solution
- Change access passwords, IP addresses, and host names
- Upgrade SnapProtect service packs

New Features

- SnapProtect 10 SP8 New Features
- Download manager for UNIX installations
- Warning for NAS client restores
- Cascade Topology support for SnapProtect for Open Systems (SPOS)

- Cluster Aware Backup (CAB) extension for clustered data ONTAP
- VMware view for ALL Versions feature
- Virtual machines conversion (VMware to Microsoft Hyper-V)
- Cloud support with AltaVault appliances
- SnapProtect Version 10 SP10
- Single-file restore (SFR)
- Root file system support for SnapProtect for Open Systems
- SnapProtect Version 10 SP11
- Support for two-node MetroCluster configuration Support for MySQL on the UNIX operating system Support for Hyper-V on SMB 3.0 shares

Labs

- Locate Vserver Associations
- Locate resource pools
- Manage disk space of resource pools
- Delegate volume creation to SVMs
- Tour the CommCell browser
- Verify that the SnapProtect license file is valid
- Setting up the Windows domain administrator and administrators' group
- Use the getting started tab to create two disk libraries
- Modify the CommServerDR storage policy
- Add the OnCommand Unified Manager server to the CommCell
- Review the NDMP configurations on cluster1 and cluster2
- Add storage systems to the CommCell
- Configure a NAS file server as a CommCell client machine
- Use the detect tool to add the SVMs of a cluster as separate clients
- Create a NAS subclient
- Initiate backup operations
- Restore individual files from the primary (snap) copy

- Restore individual files from the mirror copy
- Create and assign a NAS schedule policy
- Set the database option to full recovery
- Create a storage policy that is dedicated to a Microsoft SQL database
- Create a subclient for a Microsoft SQL database
- Initiate a local backup of the AdventureWorks database subclient
- Resolve an SQL database backup issue
- Initiate a mirror replication of the AdventureWorks database subclient
- Configure iSCSI connection between SQL Server host and SVMs
- Restore SQL databases
- Challenge task
- Configure required Exchange server settings
- Create an Exchange database subclient and storage policy
- Initiate local, mirror, and vault back up operations
- Restore Exchange databases from a SnapMirror copy
- Schedule backup operations
- Add the vCenter Server as a virtualization client
- Create a subclient with a dedicated storage policy
- Initiate a backup job
- Restore a virtual machine
- Create and run an auxiliary vault copy of the VMware datastore
- Create schedule policies to back up vCenter servers
- Change user credentials globally
- Gather log files with the send log files tool – not specifying a Job ID
- Initiate and schedule the Job Summary Report