VMware vSphere on NetApp (VVNA)

Duration: 5 days

Who should attend?

1. Data Center Operations Professionals
2. Cloud Infrastructure Architects
3. Cloud Administrators
4. Cloud Engineers
5. Storage Administrators

Prerequisites

1. System administration experience managing either the Linux or Microsoft Windows operating system
2. Completion of the **VMware vSphere 6: Install, Configure, Manage** (VICM) course or equivalent experience.
3. Completion of any of the following courses or equivalent experience:
   - **Data ONTAP 7-Mode Administration** (D7ADM)
   - **ONTAP Cluster Administration (ONTAP 9.6)** (ONTAP9ADM)
   - **ONTAP Cluster Administration and Data Protection Bundle (ONTAP 9.6)** (CDOTDP9)

Course Objectives

1. Deploy a virtualized infrastructure using NetApp storage based on the feature integration that exists with VMware vSphere and NetApp ONTAP
2. Show a firm and practical knowledge of VMware services, protocols and connectivity options
3. Utilize Net App vCenter plug-ins to ensure proper functionality and performance for virtual machines
4. Utilize NetApp Virtual Storage Console (VSC) to automate the backup, provisioning, machine cloning and host optimization configuration
5. Perform host monitoring on ESXi hosts and Net App storage through a single-pane-of-glass. Optimize virtual machine performance and correct virtual disk misalignment.
6. Optimize NetApp Storage system connectivity, performance and reliability using Fiber Channel Protocol (FCP), FCoE, iSCSI, and NFS protocols.
7. Implement multi-tenancy through the use of v Filers or V servers
8. Configure storage from the vSphere CLI or GUI in either NetApp clustered ONTAP or 7-mode
9. Install and configure NetApp vSphere plug-ins and utilize the features
10. Perform data storage networking for both iSCSI and NFS data stores
11. Manage virtual machine snapshots at both the virtualization and storage layers

Course Content

Managing a vSphere storage virtualization environment requires knowledge of the features that exist between VMware and NetApp to handle large data workloads. The VMware vSphere on NetApp training provides in-depth use of best practices to improve storage resource utilization, simplify operating system maintenance irrespective of the storage topology, data center operations simplification, and optimal use of your NetApp storage. The course covers the management of any cloud infrastructure using Clustered Data ONTAP 8.3 and the VMware vSphere 6.0 virtualization and management suite.

This hands-on 5-day class with hands on labs immerses you into the virtual machine management and storage operations spanning NetApp Data ONTAP, VMware ESXi with v Center management. You will get a hands-on experience using the vCenter NetApp plug-in, the Virtual Storage Console (VSC), configuring and monitoring the VMware host settings, performing backups, restoration, and virtual machine cloning operations.