VMware vSphere on NetApp

Category: Infrastructure & IT Operations | **Vendor:** VMware

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

In this course you will learn different methods to implement VMware vSphere 6.7u1 on NetApp ONTAP 9.5. The course provides a quick update on the current ONTAP and VMware versions, introduce the current tools to manage a VMware virtual infrastructure (VSC 7.2.1) and describe and provide practical exercises to provision datastores and storage for guest VMs with various protocols. It also points administrators to methods to back up their virtual infrastructure according to best practices and discusses methods and tools to manage and monitor for health and performance.

About This Course

In this course you will learn different methods to implement VMware vSphere 6.7u1 on NetApp ONTAP 9.5. The course provides a quick update on the current ONTAP and VMware versions, introduce the current tools to manage a VMware virtual infrastructure (VSC 7.2.1) and describe and provide practical exercises to provision datastores and storage for guest VMs with various protocols. It also points administrators to methods to back up their virtual infrastructure according to best practices and discusses methods and tools to manage and monitor for health and performance.

Who Should Attend

- Data Center Operations Professionals
- Cloud Infrastructure Architects
- Cloud Administrators
- Cloud Engineers
- Storage Administrators

Prerequisites & Entry Requirements

General Prerequisites:

- System administration experience managing either the Linux or Microsoft Windows operating system
- (!) or equivalent experience.
- Completion of the ONTAP Cluster Administration (ONTAP9ADM) or equivalent experience.

Learning Outcomes

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

- Discuss ONTAP Architecture and current Hardware
- Describe vSphere Updates in 6.5 & 6.7
- Discuss and install NetApp Tools and interfaces for VMware vSphere
- Use Application Granular Data Management (AppDM)
- Discuss NFS datastore deployment Best Practices
- Discuss VMFS datastores
- Discuss iSCSI datastore deployment Best Practices
- Describe FCP datastore deployment Best Practices
- Implement Storage Policy Based Management (SPBM)
- Discuss VVol datastore deployment Best Practices
- Implement Data Storage strategies for Guest VMs
- Discuss Security and Performance considerations in a Multi-tenant environment
- Implement High Availability and Data Protection Strategies in a virtual environment
- Maximize utilization of your storage assets using built-in efficiency features

Detailed Course Outline

Module 1: ONTAP Review and What’s New

- New supported Hardware
- Efficiency Enhancements
- Performance Enhancements
- Networking Enhancements
- Data Protection Enhancements
- Management Tools

Module 2: VMware Review and What’s New

- New vCSA, HTML5 “complete”
- ESXi HTML5 host client
- Virtual HW improvements
- VMFS improvements
- VVol improvements

Module 3: NetApp Tools for VMware

- Native VAAI support in ONTAP
- Native UNMAP support in ONTAP
- System Manager AppDM
- VSC
- VASA Provider (for VVols)
- SRA for SRM
- SnapCenter Plugin
- OCI
- RBAC User Creator

Module 4: NAS Datastores, Classic: Networking & NFS

- Networking Best Practices
- vSphere Networking
- NFS datastores, advantages, prerequisites and how to provision them
- NFS 4.1 cautions

Module 5: SAN Datastores, Classic: VMFS

- VMFS datastores, capabilities and limitations
- FC datastores, networking considerations, FCoE

- iSCSI datastores, networking considerations

Module 6: Datastores, Modern: SPBM & VVols

- Storage Policy Based Management (SPBM)
- VASA Provider
- VVol datastores, capabilities and limitations, management

Module 7: Data Storage for VM Guests

- (Mis-)Alignment
- RDMs, advantages and limitations
- NFS Exports
- SMB shares
- FC LUNs (In-Guest)
- iSCSI LUNs (In-Guest iSCSI)
- SCSI timeouts
- BP for MS-Cluster

Module 8: Data Availability, VMware

- VMware RBAC
- High Availability
- Resource Management, DRS
- VMware HA
- VMware FT
- VM Guest Cluster
- Network Contention, NIOC
- Datastore Contention, SDRS

Module 9: NetApp Data Availability

- Security, RBAC, Administration Delegation
- Networking, QoS, A-QoS
- Storage: RAID, HA-pairs, MetroCluster (FC, IP, SDS)
- vSphere Metro Storage Cluster

Labs:

- Quick Explore of the new System Manager
- Create/Check Data Aggregates on both vSims
- Create SVMs
- Quick connectivity check (vCenter Appliance, ESX hosts)
- Quick Exploration of the new HTML5 client
- Check preloaded W2K3 VM
- Check preloaded Linux VM
- Set up and test vMotion Network
- Install RBAC User Creator
- Set up VSC (& VASA-P & VAAI plugin)
- Configure Hosts for BP settings
- Create VMkernel interfaces for NFS
- Create Subnets
- Provision NFS datastore through AppDM on AFF
- Install VAAI NFS plugin on ESX hosts
- Provision NFS 4.1 datastore
- Set ESX cluster up for dual subnet iSCSI design
- Create iSCSI SVM on NetApp AFF
- Provision iSCSI datastore through VSC
- Install/set up/verify working VASA provider
- Create SPBM policies for NFS and iSCSI
- Provision NFS datastore through VSC with above created SP

- Provision VVol datastore

- Create a NFS export and access it from the Linux VM

- Create a SMB share and access it from the W2K3 VM and from the W2K16 DC

- Install SnapDrive on W2K3 VM, create a LUN from there

- Create a RDM device, attach it to W2K3 VM and access it

- Set up and verify VMware HA

- Set up and check an SVM DR relationship

Skills You Will Learn:

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Frequently Asked Questions

Q: What delivery options are available for VMware vSphere on NetApp?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day VMware vSphere on NetApp course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the VMware vSphere on NetApp training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for VMware vSphere on NetApp?

Yes, we provide corporate training, dedicated training, and closed classes for VMware vSphere on NetApp. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: VMware vSphere on NetApp, NetApp Virtualisation, VVNA

Q: Why choose Nexus Human for VMware vSphere on NetApp?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your VMware vSphere on NetApp training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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