

# Using NetApp tools for VMware vSphere



Delivery: Instructor-led training (ILT)

Duration: 2 days

Training Units: 24

## Course Description

Learn how to deploy, manage, and protect VMware virtual infrastructure on NetApp® storage by using NetApp ONTAP® software in SAN and NAS environments. Explore NetApp ONTAP tools for VMware vSphere, which includes Virtual Storage Console (VSC), NetApp VASA (vSphere API for Storage Awareness) Provider, and Storage Replication Adapter (SRA). Configure and use ONTAP tools Open Virtualization Appliance (OVA) to create traditional datastores, VMware vSphere Virtual Volumes (vVols), and vVols datastores. Use VSC to create these datastores for granular virtual machine (VM) storage policy-based management (SPBM).

## Roles

Administrator, engineer, architect

## Prerequisites

- *ONTAP Cluster Administration*
- *ONTAP Data Protection*

## Objectives

This course focuses on enabling you to do the following:

- Describe the overall architecture of the integration of ONTAP tools for VMware vSphere features
- Identify the overall concepts of ONTAP tools for VMware vSphere
- Explain how to deploy and upgrade ONTAP tools
- Configure and apply best practices to ONTAP tools
- Illustrate how to protect datastores and VMs by using ONTAP tools and NetApp SnapCenter software
- Manage datastores, VMs, and ESXi hosts with ONTAP tools
- Demonstrate how to automate storage infrastructure by using ONTAP tools REST APIs

## Course Content

This course includes the following modules, lessons, and exercises:

Module	Lessons	Exercises
<b>Module 1: Introduction to ONTAP tools</b>	<ul style="list-style-type: none"> <li>• ONTAP tools architecture</li> <li>• High availability for ONTAP tools</li> <li>• Using ONTAP tools for disaster recovery</li> <li>• SnapCenter Plug-in for VMware vSphere</li> <li>• ONTAP tools use cases</li> <li>• ONTAP tools protocols</li> <li>• ONTAP tools automation</li> </ul>	<p>Performing the initial configuration of ONTAP tools for VMware vSphere</p>
<b>Module 2: Deploy and upgrade ONTAP tools</b>	<ul style="list-style-type: none"> <li>• Interoperability of ONTAP tools</li> <li>• ONTAP tools quick start</li> <li>• Role-based access control</li> <li>• Renewing an ONTAP self-signed SSL certificate</li> </ul>	<p>Configuring ONTAP tools</p>
<b>Module 3: Configure ONTAP tools</b>	<ul style="list-style-type: none"> <li>• Configure ONTAP tools</li> <li>• Storage capability profiles</li> <li>• Configure traditional datastores with storage capability profiles</li> <li>• Create and configure vVols</li> </ul>	<ul style="list-style-type: none"> <li>• Using ONTAP tools to provision traditional datastores</li> <li>• Creating and managing VMware vSphere Virtual Volumes</li> </ul>
<b>Module 4: Using ONTAP tools to protect data</b>	<ul style="list-style-type: none"> <li>• Why NetApp for VMware SRM</li> <li>• Disaster recovery with SRM</li> <li>• SnapMirror active sync</li> <li>• Capabilities and protection policies</li> <li>• Quorum witness</li> <li>• Transparent Application Failover</li> </ul>	<p>Configuring protection for business continuity</p>

Module	Lessons	Exercises
<b>Module 5: Managing the use of ONTAP tools</b>	<ul style="list-style-type: none"> <li>• Dashboard overview</li> <li>• Defining storage capability profiles</li> <li>• Creating VMware vSphere VM storage policies</li> </ul>	Monitoring with ONTAP tools
<b>Module 6: Using SnapCenter Plug-in for VMware vSphere to protect VMs</b>	SnapCenter Plug-in for VMware vSphere	Using SnapCenter Plug-in for VMware vSphere to protect data
<b>Module 7: Using automation with ONTAP tools</b>	<ul style="list-style-type: none"> <li>• Ways to automate</li> <li>• ONTAP tools API workflow</li> <li>• vCenter Server API Explorer</li> </ul>	Accessing ONTAP tools REST APIs

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