

# VMware Learning

## Azure VMware Solutions Integrated Workshop (Workload Migration, Azure ARC, Native Integration, Veeam Backup, DR Solution)

**Summary:** - Formats: **Instructor-Led Training with Demo & Hands-on-labs**

- Length: 5 Days (40 Hours)

**Overview:**

During this Five-days course, you focus on how to deploy the resource, and how to migrate VMware virtual machines from on-premises infrastructure on to the Azure VMware Solutions. The concepts learned in this course should be transferable for users who need to plan and deploy Azure VMware Solutions. Plan to migrate VMware workloads or Virtual machines from on-prem datacentres to Azure platform.

---

**Objectives:** By the end of the course, you should be able to meet the following objectives:

- Describe Azure VMware Solutions
- Describe VMware vSphere, VMware NSX and VMware HCX.
- Explain how to plan and deploy Azure VMware Solution
- Use cases for Azure VMware Solutions.
- Explain how to migrate VMware-based workloads from your datacentre to Azure and integrate your VMware environment with Azure.
- Keep managing your existing environments with the same VMware tools you already know while you modernize your applications with Azure native services.
- Compare Cloud Management Platform.
- Monitoring AVS private cloud using Azure ARC
- Explain how to take AVS backup using Veeam
- How to use AVS for Disaster Recovery

**Intended Audience:** Platform operators who are responsible for deploying and managing VMware Workloads on Azure VMware Solutions.

**Prerequisites:**

- Understanding of VMware vSphere, VMware NSX
- Experience with VMware HCX.
- Experience with VMware SRM.
- Experience working with Azure cloud.

**Course Outline:**

Module 1: Course Introduction

- Introduction
- Course Contents
- References

Module 2: Introduction to Azure VMware Solution

- Introduction
- What is Azure VMware Solution
- Access and Identity
- API Management
- Hub and Spoke
- Internet connectivity design consideration
- AVS Network Design Consideration
- AVS Networking and Interconnectivity
- How Azure VMware Solution works

- When to use Azure VMware Solution
- Summary

#### Module 3: Azure VMware Components Overview

- vSphere & Components
- vSAN & Architecture
- NSX-T & Architecture

#### Module 4: Plan an Azure VMware Solution Deployment

- Overview of Azure VMware Solution deployment
- Plan network topology for Azure VMware Solution deployment

#### Module 5: Deploy Azure VMware Solution

- Deploy Azure VMware Solution
- Connect to an on-premises VMware vSphere environment
- Configure NSX-T network components
- Rotate the Cloudadmin credentials for AVS

#### Module 6: Migrate VMware workloads on-premises to Azure VMware Solution

- Introduction to VMware HCX
- Plan HCX deployment
- Deploy and install VMware HCX
- Configure networking and compute profiles for VMware HCX
- Create a service mesh for VMware HCX
- Migrate virtual machine workloads into Azure VMware Solution
- Summary

#### Module 7: AVS – Azure Native Integration

- Protect, monitor and manage VMs
- Integrate Microsoft Defender for Cloud
- Protect web apps with Azure Application Gateway
- Deploy traffic manager to balance workloads
- Configure alerts and work with metrics

#### Module 8: Deploy Arc for AVS

- Azure ARC-Overview
- Onboard process to deploy Azure Arc
- Discover and project your VMware infrastructure resources to Azure
- Create Arc-enabled Azure VMware Solution virtual machine
- Enable guest management and extension installation
- Change Arc appliance credential
- Manual appliance upgrade
- Off board from Azure Arc-enabled Azure VMware Solution
- Remove Arc-enabled Azure VMware Solution vSphere resources from Azure
- Delete Arc resources from vCenter Server

#### Module 9: AVS – Deploy DR using VMware HCX

- Supported scenarios
- Deployment workflow
- Prerequisites
- Install SRM in Azure VMware Solution
- Install the vSphere Replication appliance
- Configure site pairing in vCenter Server
- SRM protection, re-protection, and failback
- Ongoing management of your SRM solution
- Scale limitations
- SRM licenses
- Uninstall SRM

## Module 10: AVS – Deploy DR using VMware SRM

- Protect VMs
- Complete a test recover of VMs
- Recover VMs
- Complete a reverse replication on VMs
- Disaster recovery plan automation

## Module 11: AVS – Azure Native Integration

- Protect, monitor and manage VMs
- Integrate Microsoft Defender for Cloud
- Protect web apps with Azure Application Gateway
- Deploy traffic manager to balance workloads
- Configure alerts and work with metrics

## Module 12: AVS – Manage and protect VMs

- Manage and protect VMs on Azure NetApp files
- Backup with Azure Backup Server

## Module 13: AVS with Veeam Backup &amp; Replication

- Veeam Backup & Replication – overview
- Add Veeam Proxy
- Add Veeam Repository
- Add Secondary Backup Target
- AVS with Veeam Backup and Replication: Specific issues and Solutions