VMware Learning

Azure VMware Solution Integrated Workshop
(Plan, deploy, Workload Migration, ARC, DR using VMware SRM, Backup and Recovery)

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.
- How to use storage options available in Azure
- Monitoring AVS private cloud using Azure ARC
- How to use AVS for Disaster Recovery using VMware SRM

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
- How Azure VMware Solution works
- When to use Azure VMware Solution
- Summary

Module 3: vSphere Components in Azure VMware Solution
- ESXi Host
- vCenter
- Creating Virtual Machines

Module 4: vSAN in Azure VMware Solution
- vSAN Architecture
- vSAN Storage Policies
- Configure vSAN
- Configure customer-managed key encryption at rest

Module 5: Networking in Azure VMware Solution
- NSX-T Architecture
- Logical Switching
- Creating and Managing NSX network segment
- Configure and manage DHCP in AVS

Module 6: Plan an Azure VMware Solution Deployment
- Overview of Azure VMware Solution deployment
- Plan network topology for Azure VMware Solution deployment

Module 7: Deploy Azure VMware Solution
- Deploy Azure VMware Solution
- Connect to an on-premises VMware vSphere environment
- Configure NSX-T network components

Module 8: AVS-Configure Azure Elastic SAN
- Prerequisites
- Set preview feature flags
- Set up Elastic SAN
- Add an Elastic SAN volume as a datastore
- Configure external storage address block
- Connect Elastic SAN
- Disconnect and delete an Elastic SAN-based datastore

Module 9: AVS-Azure NetApp Files Datastore
- Attach Azure NetApp Files Datastore to AVS Hosts
- Attach Azure NetApp Files to AVS VMs

Module 10: 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
- Types of Migrations
- Migrate virtual machine workloads into Azure VMware Solution
- Summary

Module 11: 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 12: AVS – Deploy DR using VMware SRM
- VMware SRM Architecture
- Supported scenarios
- Deployment workflow

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

Module 13: Backup and Recovery
- Backup Solutions for VMs
- Backup with Azure Backup Server