

VMware vSphere: Install, Configure, Manage [V6]

Modül 1 : Course Introduction

- Introductions and course logistics
- Course Objectives

Modül 2 : Software-Defined Data Center

- Introduce components of the software-defined data center
- Describe where vSphere fits into the cloud architecture
- Install and use vSphere Client
- Overview of ESXi

Modül 3 : Creating Virtual Machines

- Introduce virtual machines, virtual machine hardware, and virtual machine files
- Create and work with virtual machines

Modül 4 : vCenter Server

- Introduce the vCenter Server architecture
- Deploy and configure vCenter Server Appliance
- Install and use vSphere Web Client
- Manage vCenter Server inventory objects and licenses
- Explain the benefits of Enhanced vMotion Compatibility

Modül 5 : Configuring and Managing Virtual Networks

- Describe, create, and manage standard switches
- Describe and modify standard switch properties
- Configure virtual switch load-balancing algorithms
- Create, configure, and manage vSphere distributed switches, network connections, and port groups

Modül 6 : Configuring and Managing Virtual Storage

- Introduce storage protocols and storage device names
- Discuss ESXi with iSCSI, NFS, and Fibre Channel storage
- Create and manage VMware vSphere® VMFS datastores
- Introduce VMware Virtual SAN™

Modül 7 : Virtual Machine Management

- Use templates and cloning to deploy virtual machines
- Modify and manage virtual machines
- Perform vSphere vMotion and vSphere Storage vMotion migrations
- Create and manage virtual machine snapshots
- Create a vApp
- Introduce the various types of content libraries and how to deploy and use them

Modül 8 : Resource Management and Monitoring

- Introduce virtual CPU and memory concepts
- Configure and manage resource pools
- Describe methods for optimizing CPU and memory usage
- Use vCenter Server performance graphs and alarms to monitor resource usage
- Create and use alarms to report certain conditions or events
- Introduce vRealize Operations Manager for data center monitoring and management

Modül 9 : vSphere HA and vSphere Fault Tolerance

- Explain the vSphere HA architecture
- Configure and manage a vSphere HA cluster
- Use vSphere HA advanced parameters
- Introduce vSphere Fault Tolerance
- Enable vSphere Fault Tolerance on virtual machines
- Introduce vSphere Replication
- Use vSphere Data Protection to back up and restore data

Modül 10 : Host Scalability

- Describe the functions of a vSphere DRS cluster
- Configure and manage a vSphere DRS cluster
- Work with affinity and anti-affinity rules
- Use vSphere HA and vSphere DRS together

Modül 11 : vSphere Update Manager and Host Maintenance

- Use vSphere Update Manager to manage ESXi patching
- Install vSphere Update Manager and the vSphere Update Manager plug-in
- Create patch baselines
- Use host profiles to manage ESXi configuration compliance
- Scan and remediate hosts

Modül 12 : Installing VMware Components

- Introduce ESXi installation
- Describe boot-from-SAN requirements
- Introduce vCenter Server deployment options
- Describe vCenter Server hardware, software, and database requirements
- Discuss installation of vCenter Server Appliance and a vCenter Server instance