AVRUPA AKADEMİK

VMware vSphere: Install, Configure, Manage V 5.1

1 -Course Introduction

- Introductions and course logistics
- Course objectives

2-Introduction to VMware Virtualization

- Introduce virtualization, virtual machines, and vSphere components
- Explain the concepts of server, network, and storage virtualization
- Describe where vSphere fits into the cloud architecture
- Install and use vSphere user interfaces

3-Creating Virtual Machines

- Introduce virtual machines, virtual machine hardware, and virtual machine files
- Deploy a single virtual machine

4 -VMware vCenter Server

- Introduce the vCenter Server architecture
- Introduce VMware® vCenter™ Server Appliance™
- Configure and manage vCenter Server Appliance
- Manage vCenter Server inventory objects and licenses

5 -Configuring and Manage Virtual Networks

- Describe, create, and manage a standard virtual switch
- Describe and modify standard virtual switch properties
- Configure virtual switch load-balancing algorithms

6- Configuring and Managing Virtual Storage

- Introduce storage protocols and device names
- Configure ESXi with iSCSI, NFS, and Fibre Channel storage
- Create and manage vSphere datastores
- Deploy and manage VMware vSphere® Storage Appliance

7 -Virtual Machine Management

- Use templates and cloning to deploy virtual machines
- Modify and manage virtual machines
- Create and manage virtual machine snapshots
- Perform VMware vSphere® vMotion® and VMware vSphere®
- Storage vMotion® migrations
- Create a VMware vSphere® vApp

8 - Data Protection

- Discuss a strategy for backing up ESXi hosts and vCenter Server
- Discuss solutions for backing up virtual machines efficiently

9- Access and Authentication Control

- Control user access through roles and permissions
- Configure and manage the ESXi firewall
- Configure ESXi lockdown mode
- Integrate ESXi with Active Directory
- Explain VMware® vShield Endpoint™ integration in VSphere

10- Resource Management and Monitoring

- Introduce virtual CPU and memory concepts
- Describe methods for optimizing CPU and memory usage
- Configure and manage resource pools
- Monitor resource usage using vCenter Server performance graphs and alarms

11- High Availability and Fault Tolerance

- Introduce the new VMware vSphere® High Availability architecture
- Configure and manage a vSphere HA cluster
- Introduce VMware vSphere® Fault Tolerance
- Describe VMware vSphere® Replication

12-Scalability

- Configure and manage a VMware vSphere® Distributed Resource Scheduler™ (DRS) cluster
- Configuring Enhanced vMotion Compatibility
- Using VMware HA and DRS together

13- Patch Management

- Use Update Manager to manage ESXi patching
- Install Update Manager and the Update Manager plug-in
- Create patch baselines
- Scan and remediate hosts™

14- Installing VMware Components

- Introduce ESXi installation
- Describe boot-from-SAN requirements
- Introduce vCenter Server deployment options
- Describe vCenter Server hardware, software, and database requirements
- Install vCenter Server (Windows-based)