

VMware vSphere: Design Workshop [V6.5]

🌐 Eğitim Tipi: **Classroom**

🕒 Süre: **5 Day**

Eğitim Hakkında

This extended-hours training course equips you with the knowledge, skills, and abilities to design and deploy a VMware vSphere® 6.0 virtual infrastructure. You follow a proven approach to design and deploy a virtualization solution that is available, scalable, manageable, and secure, and that uses VMware best practices.

This course discusses the benefits and risks of available design alternatives and provides information to support making sound design decisions.

In this course, you practice your design skills by working with peers on a design project. You also deploy components of a completed vSphere design.

This course is based on VMware ESXi™ 6.0 and VMware vCenter Server™ 6.0.

Önkoşullar

There are no prerequisites for this course.

Kimler Katılmalı

Experienced system integrators; consultants responsible for designing and deploying vSphere environments

Neler Öğreneceksiniz

- Assess the business and application requirements of the current environment
- Understand and apply a framework to a design
- Analyze design choices and best-practice recommendations
- Design and deploy the core management infrastructure for an enterprise
- Design and deploy the virtual data center for an enterprise
- Design and deploy the compute infrastructure for an enterprise
- Design and deploy the storage and networking infrastructures for an enterprise
- Design and deploy virtual machines to run applications in a vSphere infrastructure
- Design and deploy security, management, and recoverability features for an enterprise

Eğitim İçeriği

Course Introduction

- Introductions and course logistics
- Course objectives

Assessment

- Define customer business objectives
- Gather and analyze business and application requirements
- Document design requirements, constraints, assumptions, and risks
- Use a systematic method to evaluate and document design decisions
- Create a conceptual design

Core Management Infrastructure

- Determine the number of vCenter Server instances to include in a design
- Choose appropriate platforms for vCenter Server components and databases
- Design a vCenter Server deployment topology that is appropriate for the size and requirements of the data center

- Deploy core management components for the given vSphere design

Virtual Data Center Infrastructure

- Calculate total capacity requirements for a design
- Create a virtual data center cluster design that meets business and workload requirements
- Evaluate the use of various management services, such as VMware vSphere High Availability and VMware vSphere Distributed Resource Scheduler, in the virtual data center design
- Deploy virtual data center components for the given vSphere design

Compute Infrastructure

- Create a compute infrastructure design that includes the appropriate ESXi boot, installation, and configuration options
- Choose the ESXi host hardware for the compute infrastructure
- Deploy and configure ESXi hosts for the given vSphere design
- Perform a scripted installation of an ESXi host

Storage Infrastructure

- Calculate storage capacity requirements for a design
- Create a storage infrastructure design that includes the appropriate storage platform and storage management solutions
- Deploy components of the storage architecture for the given vSphere design

Network Infrastructure

- Create a network component design that includes virtual switch specifications, port group configuration settings, and physical network attributes
- Evaluate network management and monitoring design options
- Deploy components of the network architecture for the given vSphere design

Virtual Machine Infrastructure

- Create a virtual machine design that considers application requirements and maximizes performance
- Deploy virtual machines for the given vSphere design

Infrastructure Security

- Evaluate security options for ESXi hosts, vCenter Server, storage, networking, and virtual machines
- Create a security design based on VMware best practices
- Deploy security components for the given vSphere design

Infrastructure Management

- Evaluate management tools and solutions
- Create a design that includes the management of ESXi hosts, templates, virtual machine snapshots, and events
- Create a design for the VMware vSphere Update Manager™ architecture
- Deploy management components for the given vSphere design

Infrastructure Recoverability

- Evaluate ways to provide recoverability in a vSphere environment
- Create a design that includes the recoverability of ESXi hosts, vCenter Server, networks, and virtual machines
- Deploy components that enable the recoverability of the vSphere environment in the given vSphere design