

[VMVSDFST6]: VMware vSphere: Design and Deploy Fast Track [V6]

Length : 5 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

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. 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.

Audience Profile

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

At Course Completion

- 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

Pre-Requisites

Completion of the following courses:

- VMware vSphere: Install, Configure, Manage [V6.0]
- VMware vSphere: Optimize and Scale [V6.0] Or equivalent experience with vSphere deployments

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Course Outline

Module 1: Course Introduction

Lessons

- Introductions and course logistics
- Course objectives

Module 2: Assessment

Lessons

- 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

Module 3: Core Management Infrastructure

Lessons

- 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

Module 4: Virtual Data Center Infrastructure

Lessons

- 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

Module 5: Compute Infrastructure

Lessons

- 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

Module 6: Storage Infrastructure

Lessons

- 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

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Module 7: Network Infrastructure**Lessons**

- 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

Module 8: Virtual Machine Infrastructure**Lessons**

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

Module 9: Infrastructure Security**Lessons**

- 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

Module 10: Infrastructure Management**Lessons**

- 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

Module 11: Infrastructure Recoverability**Lessons**

- 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