

VMware vSphere: Design Workshop (V5)

Duration: 3 days

Overview

The goal of this course is to equip consulting professionals with the knowledge, skills, and abilities to achieve competence in designing a VMware vSphere® 5 virtual infrastructure. Given an organization's constraints and requirements, the infrastructure should be available, scalable, manageable, and secure while meeting the organization's business objectives. The course is based on VMware ESXi™ and VMware vCenter™ Server 5.

This course discusses the benefits and risks of available design alternatives and provides information to support making sound design decisions. This course also provides an opportunity to practice your design skills by working with peers on a design project.

Course Objectives

- Understand and apply a framework to a design.
- Design a storage solution to use vSphere in an enterprise.
- Design a network to use vSphere in an enterprise.
- Design compute resources for an enterprise.
- Design virtual machines to run applications in a virtual infrastructure.
- Design a virtual datacenter for an enterprise.
- Incorporate management and monitoring features in the design.
- Identify design goals, requirements, constraints, and risks.
- Identify useful information for making design decisions.
- Recognize and analyze best-practice recommendations.
- Analyze alternative design choices.

Target Audience

VMware pre- and postsales technical professionals responsible for designing vSphere architectures

Prerequisites

Knowledge of vSphere 5 installation, upgrade, configuration, and administration

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Course Outline

1 Course Introduction

- Identify the course goals
- Identify the course objectives
- View the course module outline

2 Design Process Overview

- Clarify key terminology
- Identify and discuss design guidelines, design approaches, design sessions, and design decisions and implications, and create a design framework
- Define and describe a framework methodology
- Identify design tools, including the architecture quality matrix, Information Technology Infrastructure Library v3, and the vSphere technology stack

3 VMware vSphere Storage Design

- Identify useful information for making design decisions about virtual and physical storage
- Recognize and analyze best-practice recommendations
- Analyze alternative storage design choices
- Communicate choices and their benefits and risks to the customer
- Develop a storage design

4 VMware vSphere Network Design

- Identify useful information for making design decisions about virtual and physical networks
- Recognize and analyze best-practice recommendations
- Analyze alternative network design choices
- Communicate choices and their benefits and risks to the customer
- Develop a network design

5 Compute Resources Design

- Identify useful information for making design decisions about host CPU and memory
- Recognize and analyze best-practice recommendations
- Analyze alternative host design choices
- Communicate choices and their benefits and risks to the customer
- Develop a host design

6 Virtual Machine Design

- Identify useful information for making design decisions about virtual machines
- Recognize and analyze best-practice recommendations
- Analyze alternative virtual machine design choices
- Communicate choices and their benefits and risks to the customer
- Develop a virtual machine design

7 VMware vSphere Virtual Datacenter Design

- Identify useful information for making design decisions about virtual datacenters regarding management server and cluster configuration
- Recognize and analyze best-practice recommendations
- Analyze alternative virtual datacenter design choices
- Communicate choices and their benefits and risks to the customer
- Develop a virtual datacenter design

8 Management and Monitoring Design

- Identify useful information for making design decisions about management and monitoring
- Recognize and analyze best-practice recommendations
- Analyze alternative management and monitoring design choices
- Communicate choices and their benefits and risks to the customer
- Develop a management and monitoring design

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