VMware vSphere: Design [V7] Training

Duration: 3 Days

Course Content:

The training module in VMware vSphere Design Workshop is composed to be pure in understanding and advanced in nature. The basics guide the Design environment on the virtual infrastructure. The course consists of virtualization designing solution, manageability, performance, recoverability, and security. Within the short time span, the course aims to provide a quick overview and thorough knowledge and skills to enable designing a VMware vSphere® 7 virtual infrastructure.

This technical training program focuses on design skills. However, the course module understands that without a considerable amount of practice, the skills are hard to be imbibed. Hence, the course provides you with specific tasks for practice. You are provided feedback as you work with the embedded case studies. Our Enterprise training program allows a team up-grading with a skill set that leads to the firm's overall development.

Who should attend?

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

Prerequisites for this training

This course requires completion of the following prerequisites:

- VMware vSphere: Install, Configure, Manage [V7]
- VMware vSphere: Optimize and Scale [V7]

What you will learn

- Identify the business objectives for the vSphere environment
- Identify business requirements, constraints, assumptions, and risks for all layers in the vSphere environment
- Apply a framework to a design
- Analyze design choices and best-practice recommendations
- Create a design that ensures availability, manageability, performance, recoverability, and security
- Design the core management infrastructure for an enterprise
- Design the virtual data center for an enterprise
- Design the compute infrastructure for an enterprise
- Design the storage and networking infrastructures for an enterprise
- Design virtual machines to run applications in a vSphere infrastructure
- Design security, manageability, and recoverability features for an enterprise

Curriculum

Module 1: Course Introduction

- Introductions and course logistics
- Course objectives

Module 2: Infrastructure Assessment

- Follow a proven process to design a virtualization solution
- 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

- Determine the number of VMware vCenter® Server ApplianceTM instances to include in a design
- Choose the appropriate single sign-on identity source
- Choose the time synchronization method
- Choose methods to collect log files and VMware ESXi™ core dumps
- Design a vCenter Server deployment topology that is appropriate for the size and requirements of the data center

Module 4: Virtual Data Center Infrastructure

- Calculate total compute capacity requirements for a virtual data center
- Create a virtual data center cluster design that meets business and workload requirements
- Evaluate in the virtual data center the use of several management services, such as VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™
- Evaluate the use of resource pools in the virtual data center design

Module 5: 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

Module 6: Storage Infrastructure

- Calculate storage capacity and performance requirements for a design
- Evaluate the use of different storage platforms and storage management solutions
- Design a storage platform infrastructure and storage management architecture that meets the needs of the vSphere environment

Module 7: Network Infrastructure

- Evaluate the use of different network component and network management solutions
- Design a network component architecture that includes information about network segmentation and virtual switch types
- Design a network management architecture that meets the needs of the vSphere environment

Module 8: Virtual Machine Design

- Make virtual machine design decisions, including decisions about resources
- Design virtual machines that meet the needs of the applications in the vSphere environment and follow VMware best practices

Module 9: Infrastructure Security

- Make security design decisions for various layers in the vSphere environment
- Design a security strategy that meets the needs of the vSphere environment and follows VMware best practices

Module 10: Infrastructure Manageability

- Make infrastructure manageability design decisions that adhere to business requirements
- Design an infrastructure manageability strategy that meets the needs of the vSphere environment and follows VMware best practices

Module 11: Infrastructure Recoverability

- Make infrastructure recoverability design decisions that adhere to business requirements
- Design an infrastructure recoverability strategy that meets the needs of the vSphere environment and follows VMware best practices