VMware vSphere: Design

Duration: 3 Days **Course Code: VSD** **Version: 8.0** **Delivery Method: Virtual Learning**

Overview:

This three-day course equips you with the knowledge, skills, and abilities to design a VMware vSphere 8 virtual infrastructure. You follow a proven approach to design a virtualization solution that ensures availability, manageability, performance, recoverability, and security. The approach presented follows VMware best practices. This course discusses the benefits and risks of available design alternatives and provides information to support making sound design decisions.

Product Alignment
VMware ESXi 8.0
VMware vCenter 8.0

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Individuals involved in the design of a vSphere solution

Objectives:

- **After completing this course you should be able to:**
- Create a vSphere design given a case study
- Identify and assess the business objectives of 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 for vCenter, ESXi, storage, networking, vSphere clusters, and virtual machines
- Identify design decisions to ensure manageability, which include scalability, capacity planning and lifecycle management
- Identify design decisions to ensure that the vSphere environment is highly available
- Identify design decisions to ensure that the vSphere environment performs well
- Identify design decisions to ensure that the vSphere environment is secure
- Identify design decisions to ensure that the vSphere environment can recover from data loss or disaster

Prerequisites:

Attendees should meet the following prerequisities:

- Completion of one of the following courses
- VSICM - VMware vSphere: Install, Configure, Manage
- VSOS - VMware vSphere: Optimize and Scale

Testing and Certification

Recommended as preparation for the following exams:

- 3VO - 21.23 - VMware vSphere 8.x Advanced Design - Required for VCAP-DCV-Design 2023 Certification

Content:

Course Introduction

- Introductions and course logistics
- Course objectives

Infrastructure Assessment

- Describe various design framework principles
- Follow a proven process to design a virtualization solution
- Define customer business objectives and requirements
- Use a systematic method to evaluate and document a conceptual model
- Create a logical design from a conceptual model
- Recognize key information contained in the physical design

Designing for Manageability: Capacity Planning

- Make capacity planning design decisions that adhere to business requirements
- Design capacity planning strategies that meet the needs of the vSphere environment and follow VMware best practices
- Calculate compute and storage requirements for the VMs in the vSphere environment

Designing for Manageability: Scalability

- Make scalability design decisions that adhere to business requirements
- Design scalability strategies that meet the needs of the vSphere environment and follow VMware best practices

Designing for Manageability: Lifecycle Management

- Make lifecycle management design decisions that adhere to business requirements
- Design lifecycle management strategies that meet the needs of the vSphere environment and follow VMware best practices

Designing for Availability

- Make availability design decisions that adhere to business requirements
- Design availability strategies that meet the needs of the vSphere environment and follow VMware best practices

Designing for Performance

- Make performance design decisions that adhere to business requirements
- Design performance strategies that meet the needs of the vSphere environment and follow VMware best practices

Designing for Security

- Make security design decisions that adhere to business requirements
- Design security strategies that meet the needs of the vSphere environment and follow VMware best practices

Designing for Recoverability

- Make recoverability design decisions that adhere to business requirements
- Design recoverability strategies that meet the needs of the vSphere environment and follow VMware best practices

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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