VMware vSphere: Design Workshop V6.5

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Duration: 3 Days

Jew Horizons Learning Centres

Overview:

This three-day training course equips you with the knowledge, skills, and abilities to design a VMware vSphere® 6.5 virtual infrastructure. You follow a proven approach to design a virtualisation solution that ensures availability, manageability, performance, recoverability, and security, 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. Given a case study, you practice your design skills by working with peers on a design project

Product Alignment: VMware ESXi[™] 6.5, VMware vCenter Server® 6.5

Target Audience:

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

Pre-requisites:

Before attending this course, students must have completed-

- VMware vSphere: Install, Configure, Manage V6.5 VMware vSphere:
- Optimise and Scale V6.5

Module 1: Course Introduction

 Introductions and course logistics Course Objectives

Module 2: Infrastructure Assessment

- Follow a proven process to design a virtualisation solution Define customer business objectives
- Gather and analyse business and
- 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 vCenter Server and VMware Platform Services Controller[™] instances to include in a desian
- Choose the appropriate platforms for
- vCenter Server components Choose the appropriate single sign-on identity source Choose the time synchronisation
- method
- Choose methods to collect log files and
- 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 capacity requirements
- for a design Create a virtual data center cluster design that meets business and
- workload requirements Evaluate the use of several management services, such as VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™ in the virtual data center Evaluate the use of resource pools in the virtual data center decign
- 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 platform and storage management
- solutions Design a storage platform 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
- 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