

VMWARE : vSphere 6.5 DESIGN

DATE: To be confirmed

CONTACT: academy@techlan.it

STUDY BOOK:

PRICE: Request

COURSE OBJECTIVE:

This 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 virtualization 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.

Upon Completion of this course, you will be able to:

- Assess the business and application requirements of the current 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, management, and recoverability features for an enterprise

PREREQUISIT:

It is recommended, but not required, that students have the following knowledge and skills:

VMWare vSphere 6.5 Install, Configure, Manage
VMWare vSphere 6.5 Optimize and Scale

WHO SHOULD ATTEND

This course is designed for experienced system integrators and consultants responsible for designing and deploying vSphere environments.

COURSE CONTENT:

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 vCenter Server and VMware Platform Services Controller™ instances to include in a design
Choose the appropriate platforms for vCenter Server components
Choose the appropriate single sign-on identity source
Choose the time synchronization 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 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

LABS: To be confirmed

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