



## VMW-DSG - VMware vSphere: Design [V8]

Vmware - Vmware - Virtualizzazione e Cloud

Durata:

**3 Giorni**

Lingue:

**Italiano**

Certificazione:

**VMware Certified Advanced Professional  
- Data Center Virtualization (VCAP-DCV)  
Design**

### Descrizione del corso

E' un corso di 3 giorni per apprendere come progettare un ambiente virtualizzato con vSphere, verrà appreso come approcciare una progettazione che possa soddisfare i criteri di disponibilità, gestione, performance, ripristino e sicurezza. Verranno illustrate le "best practice" di VMware e discussi gli aspetti positivi e negativi dei vari scenari presentati.

Questo corso richiede il completamento dei seguenti prerequisiti:

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

Il corso è offerto in collaborazione con Esprinet S.p.A.

### Programma

#### COURSE INTRODUCTION

- Introductions and course logistics
- Course objectives

#### 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

#### ITCore Group

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- Create a conceptual design

## **CORE MANAGEMENT INFRASTRUCTURE**

- Determine the number of VMware vCenter® Server Appliance™ 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 ESXi core dumps
- Design a vCenter Server deployment topology that is appropriate for the size and requirements of the data center

## **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 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

## **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

## **NETWORK INFRASTRUCTURE**

- Evaluate the use of different network component and network management solutions

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- 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

## **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

## **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

## **INFRASTRUCTURE MANAGEABILITY**

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

## **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

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