

VM - DESGN

VMware Infrastructure: Design

Summary

Duration

3 Days

Vendor

VMware

Category

VMware Infrastructure 3 for System Administrators, Integrators, and Architects

Introduction

This hands-on training course explores the foundations of designing VMware Infrastructure architectures.

This course is not required for the VMware Certified Design Expert (VCDX) certification. The content of the course is a subset of the knowledge tested in the VCDX examinations. Therefore, the course is most appropriate for persons who are new to designing virtual infrastructures and who intend to gain further hands-on design experience before beginning the VCDX process.

Prerequisites

Required

- Comfortable with fundamental Linux commands (such as ls and cp) and a Linux text editor

Recommended

- Completion of VMware Infrastructure 3: Install and Configure or equivalent experience with VMware Infrastructure 3

Basic Skills Self-Assessment: VMware Infrastructure Fundamentals

You must already possess the following prerequisite skills to gain the greatest possible value from attending this course:

- Install VMware ESX on a local volume.
- Install VMware vCenter and add an ESX server to its inventory.
- Build a Windows virtual machine using the VMware Infrastructure Client.
- Create a template in vCenter and deploy a virtual machine from it.
- Configure access to iSCSI storage on your ESX server.
- Create a VMFS datastore on shared storage.
- Migrate a virtual machine using VMware vMotion.
- Apply migration recommendations in a VMware Distributed Resource Scheduler cluster.
- Send an SNMP notification when a virtual machine-based alarm is triggered.
- Configure VMware High Availability to successfully fail over virtual machines during a host failure.

Course Objectives

- Implementing best practices and evaluating design considerations to meet business needs
- Distributing resources across ESX clusters automatically and ensuring high availability
- Architecting remote and branch offices
- Designing to support certain enterprise applications

Course Outline

- Fundamental design principles
- Designing for lower cost of administration
- Fault-tolerant, resilient, and highly available architectures
- Trade-offs between scaling up versus scaling out resources
- Designing templates based on inventory analysis
- Sizing a virtual infrastructure based on capacity analysis
- Centralized and distributed remote office architectures
- Making remote office information more available
- Design considerations for online transaction processing (OLTP) versus decision support systems (DSS)
- Deciding between VMFS, RDM, and a hybrid combination
- Designing virtual domain controllers to minimize management while maximizing performance
- Including Exchange 2003 and Exchange 2007 server roles

Associated Certifications & Exams

On successful completion of this course students will receive a Torque IT attendance certificate.