



vmware

VMWARE



vmware®

About Course

It enables users to create and run VMs directly on a single Windows or Linux desktop or laptop. Those VMs run simultaneously with the physical machine. Each VM runs its own OS such as Windows or Linux. This enables users to run Windows on a Linux machine or vice versa simultaneously with the natively installed OS.

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CURRICULUM

1 Course Introduction

Introductions and course logistics
Course objectives

2 Network Scalability

Configure and manage vSphere distributed switches
Describe how VMware vSphere® Network I/O Control enhances performance
Explain distributed switch features such as port mirroring and NetFlow

3 Storage Scalability

Explain why VMware vSphere® VMFS is a high-performance, scalable file system
Explain VMware vSphere® Storage APIs - Array Integration, VMware vSphere® API for Storage Awareness™, and vSphere APIs for I/O filtering
Configure and assign virtual machine storage policies
Create VMware vSAN™ storage policies

Recognize components of the VMware vSphere® Virtual Volumes™ architecture
Configure VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control

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Host And Management Scalability

Use the vSphere Client to manage vSphere certificates
Describe identity federation and recognize its use cases
Configure identity federation to allow vCenter Server to use external identity provider
Describe the benefits and use cases of vSphere Trust Authority
Configure vSphere Trust Authority
Use host profiles to manage ESXi configuration compliance
Create a local content library and subscribe to a published content library
Deploy VMs from a content library
Create and manage resource pools in a cluster
Describe how scalable shares work

5

CPU Optimization

Explain the CPU scheduler operation and other features that affect CPU performance
Explain NUMA and vNUMA support
Use esxtop to monitor key CPU performance metrics

6 Memory Optimization

Explain ballooning, memory compression, transparent page sharing, and host-swapping techniques for memory reclamation when memory is overcommitted

Use esxtop to monitor key memory performance metrics

7 Storage Optimization

Describe storage queue types and other factors that affect storage performance

Discuss vSphere support for NVMe and iSER technologies

Use esxtop to monitor key storage performance metrics

8 Network Optimization

Explain performance features of network adapters

Explain the performance features of vSphere networking

Use esxtop to monitor key network performance metrics

9 VCenter Server Performance Optimization

Describe the factors that influence vCenter Server performance

Use VMware vCenter® Server Appliance™ tools to monitor resource use

Supplemental Content



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