

VS80-OSS (VMWARE VSPHERE: OPERATE, SCALE AND SECURE) 8

Objetivo

Objectives By the end of the course, you should be able to meet the following objectives:

- Configure and manage a VMware Tools Repository
- Configure vSphere Replication and recover replicated VMs
- Manage VM resource usage with resource pools
- Configure and manage vSphere networking and storage for a large and sophisticated enterprise
- Configure VMware vCenter Server® High Availability
- Use host profiles to manage VMware ESXi® host compliance
- Use the vSphere Client and the command line to manage certificates
- Monitor the vCenter, ESXi, and VMs performance in the vSphere client
- Secure VMware vCenter® 8, ESXi, and VMs in your vSphere environment
- Use Identity Federation to configure the vCenter to use external identity sources
- Use VMware vSphere® Trust Authority
- secure the infrastructure for encrypted VMs

Público Alvo

Audience Experienced system administrators, system engineers, and system integrators

Pré-Requisitos

Prerequisites This course requires the following:

- Attend VMware vSphere: Install, Configure, Manage [V8]
- Equivalent knowledge and administration experience with ESXi and vCenter
- Experience with working at the command line is highly recommended.

Carga Horária

40 horas (5 dias).

Conteúdo Programático

COURSE OUTLINE

Module 1: Course Introduction

- Introductions and course logistics
- Course objectives

Module 2: Virtual Machine Operations

- Recognize the role of a VMware Tools™ Repository
- Configure a VMware Tools Repository
- Recognize the backup and restore solution for VMs
- Identify the components in the VMware vSphere® Replication™ architecture

- Deploy and configure vSphere Replication and VMware Site Recovery™ instances
- Recover replicated VMs

Module 3: vSphere Cluster Operations

- Create and manage resource pools in a cluster
- Describe how scalable shares work
- Describe the function of the vCLS
- Recognize operations that might disrupt the healthy functioning of vCLS VMs

Module 4: Network Operations

- 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
- Define vSphere Distributed Services Engine
- Describe the use cases and benefits of VMware vSphere® Distributed Services Engine™

Module 5: Storage Operations

- Discuss vSphere support for NVMe and iSER technologies
- Describe the architecture and requirements of vSAN configuration
- Describe storage policy-based management
- Recognize components in the VMware vSphere® Virtual Volumes™ architecture
- Configure Storage I/O Control

Module 6: vCenter and ESXi Operations

- Create a vCenter backup schedule
- Recognize the importance of vCenter High Availability
- Explain how vCenter Server High Availability works
- Use host profiles to manage ESXi configuration compliance
- Recognize the benefits of using configuration profiles
- Use the vSphere client and the command line to manage certificates

Module 7: vSphere Monitoring

- Monitor the key factors that can affect a virtual machine's performance
- Describe the factors that influence vCenter performance
- Use vCenter tools to monitor resource use
- Create custom alarms in vCenter
- Describe the benefits and capabilities of VMware Skyline™
- Recognize uses for VMware Skyline Advisor™ Pro

Module 8: vSphere Security and Access Control

- Recognize strategies for securing vSphere components, such as vCenter, ESXi hosts, and virtual machines
- Describe vSphere support for security standards and protocols
- Describe identity federation and recognize its use cases
- Configure identity federation to allow vCenter to use an external identity provider

Module 9: vSphere Trusted Environments and VM Encryption

- Configure ESXi Host Access and Authentication
- Describe virtual machine security features

- Describe the components of a VM encryption architecture
- Create, manage, and migrate encrypted VMs
- List VM encryption events and alarms
- Describe the benefits and use cases of vSphere Trust Authority