

VMWare vSphere 7 : Nouvelles fonctionnalités

Référence : VMW101

Durée : 3 jours

Certification : VCP-DCV

Code CPF : RS69

CONNAISSANCES PREALABLES

- This course requires completion of one the following courses or equivalent knowledge and administration experience with ESXi and vCenter Server: VMware vSphere: Install, Configure, Manage ; VMware vSphere: Optimize and Scale ; VMware vSphere: Fast Track ; VMware vSphere: Troubleshooting.

PROFIL DES STAGIAIRES

- System architects, system administrators, IT managers, VMware partners, and individuals responsible for implementing and managing vSphere architectures.

OBJECTIFS

- List and describe the importance of key features and enhancements in vSphere 6.7 update releases and vSphere 7. • Determine the proper upgrade path for a vCenter Server instance and upgrade VMware vCenter® Server Appliance™ to version 7. • Migrate a Windows vCenter Server system to vCenter Server Appliance 7. • Manage and update VM templates located in content libraries. • Use Identity Federation to configure vCenter Server to use Microsoft ADFS. • Use the VMware vSphere® Client™ to manage certificates. • Describe vCenter Server, VMware ESXi™, storage, network, virtual machine, and security enhancements in vSphere 7. • Use VMware vSphere® Trust Authority™ to secure the infrastructure for encrypted VMs. • Demonstrate the Quickstart feature of the ESXi cluster. • Recognize improvements to VMware vSphere® Distributed Resource Scheduler™. • Use vSphere Lifecycle Manager to manage vSphere deployments, updates, and configurations. • Discuss the purpose and capabilities of VMware vSphere® with Kubernetes and how it fits into the VMware Tanzu™ portfolio.

CERTIFICATION PREPAREE

- Cette formation prépare à l'examen VCP-DCV Delta Exam, qui permet d'atteindre la mise à jour de son titre de certification VCP - VMware Certified Professional sur vSphere. Pour en savoir plus sur cette certification cliquez ici et accédez aux informations complètes fournies par France Compétences

METHODES PEDAGOGIQUES

- Mise à disposition d'un poste de travail par stagiaire
- Remise d'une documentation pédagogique papier ou numérique pendant le stage
- La formation est constituée d'apports théoriques, d'exercices pratiques, de réflexions et de retours d'expérience
- Le suivi de cette formation donne lieu à la signature d'une feuille d'émargement

FORMATEUR

Consultant-Formateur expert vSphere

METHODE D'EVALUATION DES ACQUIS

- Auto-évaluation des acquis par le stagiaire via un questionnaire
- Attestation de fin de stage adressée avec la facture

CONTENU DU COURS

Course Introduction

- Introductions and course logistics
- Course objectives

Installation and Upgrade

- Describe the new vCenter Server Appliance deployment model
- Upgrade a vCenter Server Appliance instance to vCenter Server Appliance 7

- Migrate a Windows vCenter Server instance to vCenter Server Appliance 7
- Describe the enhancements to vCenter Server Appliance

Management Enhancements

- Identify the scaling and performance improvements for vCenter Server Appliance
- Describe the support provided for dynamic DNS
- Recognize how to change the IP address or FQDN of vCenter Server
- Describe prefix-based MAC address allocation
- Perform a VM template in-place update in Content Library
- Describe identity federation and recognize its use cases
- Configure identity federation
- Manage certificates using the vSphere Client
- Identify VMware NSX-T™ logical switches and their properties in the vSphere Client
- Explain the benefits of using VMware Skyline™ to proactively monitor your environment

ESXi Enhancements

- Upgrade an ESXi host to version 7
- List the enhancements introduced with ESXi 7
- Describe new device support for ESXi hosts
- Describe support for Precision Time Protocol

VM Enhancements

- Discuss the new functionality, virtual devices, and VM maximums supported by VM compatibility version 17
- Describe the enhancements to guest customization
- Perform a vSphere vMotion migration of VMs with remote devices

Storage Enhancements

- Describe the enhancements to NVMe support
- Describe the enhancements to VMware Pluggable Storage Architecture
- Describe the purpose of the High-Performance Plug-in
- Describe the support for iSER
- Recognize the changes made to the ESXi system storage layout
- Describe the support for CAB deployment of WSFC in vSphere 6.7 and later
- List the enhancements made to vSAN

Security Enhancements

- Describe the enhancements to the VM encryption feature
- Describe the enhancements to cloning, migration, and encryption operations
- Describe the benefits and use cases of vSphere Trust Authority
- Configure vSphere Trust Authority

Cluster Enhancements

- Demonstrate the Quickstart feature of the ESXi cluster
- Recognize improvements to vSphere DRS
- Describe use cases for scalable shares

vSphere Lifecycle Management

- Use vCenter Server Update Planner to run vCenter Server upgrade prechecks
- Compare vSphere Lifecycle Manager to vSphere Update Manager
- Manage and update ESXi hosts using vSphere Lifecycle Manager

Introduction to vSphere with Kubernetes

- Differentiate between containers and virtual machines
- Identify the parts of a container system
- Recognize the basic architecture of Kubernetes
- Describe a basic Kubernetes workflow
- Describe the purpose of vSphere with Kubernetes and how it fits into the VMware Tanzu portfolio
- Explain the vSphere with Kubernetes supervisor cluster
- Describe the Tanzu Kubernetes grid service