VMware vSphere 8 : What's new

Référence : **VMW108**   Durée : **2 jours**   Certification : **Aucune**

CONNAISSANCES PREALABLES

- 1-This course requires completion of one of the following courses, or equivalent knowledge, plus administration experience with ESXi and vCenter Server: VMware vSphere: Install, Configure, Manage ; VMware vSphere: Optimize and Scale ; VMware vSphere: Fast Track ; VMware vSphere: Troubleshooting ; Experience with working at the command line is helpful. • 2.01-Install and configure ESXi. • 2.02-Install vCenter Server. • 2.03-Create vCenter Server objects, such as data centers and folders. • 2.04-Create and manage vCenter Server roles and permissions. • 2.05-Create and modify a standard switch. • 2.06-Create and modify a distributed switch. • 2.07-Connect an ESXi host to NAS, iSCSI, or Fibre Channel storage. • 2.08-Create a VMware vSphere VMFS datastore. • 2.09-Use a content library template to create a virtual machine. • 2.10-Modify a virtual machine's hardware. • 2.11-Migrate a virtual machine with VMware vSphere vMotion and VMware vSphere Storage vMotion. • 2.12-Configure and manage a VMware vSphere Distributed Resource Scheduler cluster. • 2.13-Configure and manage a VMware vSphere High Availability cluster. • 2.14-Use VMware vSphere Lifecycle Manager to perform upgrades to ESXi hosts and VMs. • 2-The course material presumes that you can perform the following tasks with no assistance or guidance before enrolling in this course:. • 3-If you cannot complete these tasks, VMware recommends that you instead take the VMware vSphere: Install, Configure, Manage [V8] course.

PROFIL DES STAGIAIRES

- System architects, system administrators, IT managers, VMware partners, and individuals responsible for implementing and managing vSphere architectures who want to deploy vSphere 8.0 into their existing vSphere environment.

OBJECTIFS

- Recognize the importance of key features and enhancements in vSphere 8.0. • Describe vCenter Server, VMware ESXi, storage, virtual machine, and security enhancements in vSphere 8.0. • Describe the purpose of vSphere Distributed Services Engine. • Update an ESXi host equipped with a Data Processing Unit (DPU) using vSphere Lifecycle Manager. • Identify devices supported for system storage on ESXi 8.0. • Recognize enhancements to VM hardware compatibility settings. • VMware vSphere Memory Monitoring and Remediation and the improvements to vSphere DRS. • Recognize the new Virtual Non-Uniform Memory Access (vNUMA) topology settings of a VM in vSphere Client. • Use vSphere Lifecycle Manager and Auto Deploy to manage the configuration specifications for the hosts in a cluster. • Recognize the vSphere Lifecycle Manager and Auto Deploy enhancements in vSphere 8.0. • Recognize the cloud benefits that VMware vSphere+ brings to on-premises workloads. • Recognize technology that is discontinued or deprecated in vSphere 8.0.

CERTIFICATION PREPAREE

Aucune

METHODES PEDAGOGIQUES

- Mise à disposition d'un poste de travail par stagiaire
- Remise d'une documentation pédagogique 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 des compétences acquises envoyée au stagiaire
- Attestation de fin de stage adressée avec la facture

Course Introduction
• Introductions and course logistics
• Course objectives

Artificial Intelligence and Machine Learning
• Describe how device groups support AI and ML in vSphere 8
• Describe how device virtualization extensions support AI and ML in vSphere 8

vSphere Distributed Services Engine
• Describe the benefits of Distributed Services Engine
• Explain how Distributed Services Engine works
• Recognize use cases for Distributed Services Engine
• Install ESXi on a host equipped with a DPU
• View DPU information in vSphere Client
• Add an ESXi host equipped with a DPU to a cluster
• Update an ESXi host equipped with a DPU using vSphere Lifecycle Manager
• Create a vSphere Distributed Switch for network offloads
• Add a host with a DPU to the vSphere Distributed Switch
• Configure a VM to use Uniform Passthrough Mode

vSphere and vCenter Management
• Review the improvements to the communication between vCenter and ESXi hosts
• Review the enhancements to the vCenter recovery process

ESXi Enhancements
• Describe the function of the central configuration store in ESXi
• Explain how ConfigStore affects your interaction with ESXi configuration files
• Recognize the supported system storage partition configuration on ESXi 8.0
• Identify devices supported for system storage on ESXi 8.0
• Configure an RDMA host local device on ESXi

vSphere Storage
• Describe the vSAN Express Storage Architecture
• Recognize the benefits of using vSAN Express Storage Architecture
• Describe the benefits of using NVMe
• Recognize the support for NVMe devices in vSphere

Guest OS and Workloads
• Review the enhancements of the latest virtual hardware versions
• Describe the features introduced with virtual hardware version 20
• Create a snapshot of a VM with an NVDIMM device

Resource Management
• View energy and carbon emission metrics in vRealize Operations Manager
• Describe the VMware vSphere Memory Monitoring and Remediation (vMMR) functionality
• Describe how vMMR enhances the performance of vSphere DRS

Security and Compliance
• Describe how to handle vTPM secrets when cloning a VM
• Manage OVF templates for VMs that are configured with vTPM
• Deploy an OVF template with vTPM
• Describe the enhancements to trusted binary enforcement in ESXi
• Describe ESXi 8 enhanced security features

vSphere Lifecycle Manager
• Describe the enhancements to life cycle management of standalone ESXi hosts
• Manage the configuration profiles of ESXi hosts in a cluster with vSphere Lifecycle Manager
• Use Auto Deploy to boot a host with the desired image and configuration specifications
• Upgrade multiple ESXi hosts in a cluster in parallel
• Stage an ESXi host image prior to remediation

Auto Deploy
• Manage custom host certificates using Auto Deploy

vSphere with Tanzu
• Describe the features of the Tanzu Kubernetes Grid 2.0 offering

Announcing vSphere+
• Describe the functionality and benefits of vSphere+