

VMware vSphere 8 : What's new

Référence : **VMW108**

Durée : **2 jours (14 heures)**

Certification : **Aucune**

Connaissances préalables

- 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
 - 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 préparée

- Aucune

Méthodes pédagogiques

- 6 à 12 personnes maximum par cours, 1 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 et de réflexions

Formateur·rice

- Consultant-Formateur expert vSphere

Méthodes d'évaluation 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

Contenu du cours

1. Course Introduction

- Introductions and course logistics
- Course objectives

2. 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

3. 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

4. vSphere and vCenter Management

- Review the improvements to the communication between vCenter and ESXi hosts
- Review the enhancements to the vCenter recovery process

5. 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

6. 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

7. 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

8. 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

9. 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

10. 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

11. Auto Deploy

- Manage custom host certificates using Auto Deploy

12. vSphere with Tanzu

- Describe the features of the Tanzu Kubernetes Grid 2.0 offering

13. Announcing vSphere+

- Describe the functionality and benefits of vSphere+

Notre référent handicap se tient à votre disposition au [01.71.19.70.30](tel:01.71.19.70.30) ou par mail à referent.handicap@edugroupe.com pour recueillir vos éventuels besoins d'aménagements, afin de vous offrir la meilleure expérience possible.