

VMware vSphere : Fast Track

VMWAREFAST

Présentiel - Synchrone

Objectifs



Public Visé

System administrators, System engineers



Pré Requis

System administration experience on Microsoft Windows or Linux operating systems

Objectifs pédagogiques et d'évaluation

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

- Describe the software-defined data center (SDDC)
- Explain the vSphere components and their function in the infrastructure
- Describe the benefits and capabilities of VMware Skyline
- Install and configure VMware ESXi™ hosts
- Deploy and configure VMware vCenter® Server Appliance™
- Use VMware vSphere® Client™ to manage the vCenter Server inventory and the vCenter Server configuration
- Manage, monitor, back up, and protect vCenter Server Appliance
- Create virtual networks with vSphere standard switches
- Describe the storage technologies supported by vSphere
- Configure virtual storage using iSCSI and NFS storage
- Create and manage VMware vSphere® VMFS datastores
- Use the vSphere Client to create virtual machines, templates, clones, and snapshots
- Create a content library and deploy virtual machines from templates in the library
- Manage virtual machine resource use and manage resource pools
- Migrate virtual machines with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
- Create and manage a vSphere cluster that is enabled with VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™
- Create virtual networks with VMware vSphere® Distributed Switch™ and enable distributed switch features
- Discuss solutions for managing the vSphere life cycle
- Use VMware vSphere® Lifecycle Manager™ to perform upgrades to ESXi hosts and virtual machines
- Use host profiles to manage ESXi configuration compliance
- Describe how vSphere storage APIs help storage systems integrate with vSphere
- Configure and use virtual machine storage policies

Méthodes pédagogiques

This five-day, intensive course takes you from introductory to advanced VMware vSphere® 7 management skills. Building on the

Parcours pédagogique

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 Introduction to vSphere and the Software-Defined Data Center

- Explain basic virtualization concepts
- Describe how vSphere fits into the softwaredefined data center and the cloud infrastructure
- Explain how vSphere interacts with CPUs, memory, networks, and storage
- Recognize the user interfaces for accessing the vCenter Server system and ESXi hosts
- Describe the ESXi host architecture
- Navigate the Direct Console User Interface (DCUI) to configure an ESXi host
- Recognize ESXi host user account best practices
- Install an ESXi host
- Use VMware Host Client™ to configure ESXi host settings
- Describe how to proactively manage your vSphere environment using VMware Skyline

3 Virtual Machines

- Create and provision a virtual machine
- Explain the importance of VMware Tools™
- Install VMware Tools
- Identify the files that make up a VM
- Recognize the components of a VM
- Recognize virtual devices supported by a VM
- Describe the benefits and use cases for containers
- Identify the parts of a container system

4 vCenter Server

- Describe the vCenter Server architecture
- Discuss how ESXi hosts communicate with vCenter Server
- Deploy and configure vCenter Server Appliance
- Use the vSphere Client to manage the vCenter Server inventory
- Add data center, organizational objects, and hosts to vCenter Server
- Use roles and permissions to enable users to access objects in the vCenter Server inventory
- Back up vCenter Server Appliance
- Monitor vCenter Server tasks, events, and appliance health
- Use vCenter Server High Availability to protect a vCenter Server Appliance

5 Configuring and Managing Virtual Networks

Version : V2 - VMWAREFAST-20231121

STRATEGIE Formation - Numéro de déclaration d'activité (ne vaut pas agrément de l'état) : 95970120697

Stratégie Informatique

Guadeloupe : Immeuble la Coupole, Grand-Camp 97142 ABYMES Tél : 05 90 83 06 18 Fax : 05 90 83 46 71

Martinique : Immeuble Sera n°6, Zone de Manhity 97232 LAMENTIN Tél : 05 96 57 40 20 Fax : 05 96 51 60 53

SARL AU CAPITAL DE 7775€ - SIRET 352 717 193 00044-APE 6202 A

installation and configuration content from our best-selling course, you will also develop advanced skills needed to manage and maintain a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will install, configure and manage vSphere 7. You will explore the features that build a foundation for a truly scalable infrastructure and discuss when and where these features have the greatest effect. This course prepares you to administer a vSphere infrastructure for an organization of any size using vSphere 7, which includes VMware ESXi™ 7 and VMware vCenter Server® 7.

Qualification Intervenant·e·s

Consultant formateur certifié

Create and manage standard switches
Describe the virtual switch connection types
Configure virtual switch security, traffic-shaping and load-balancing policies
Compare vSphere distributed switches and standard switches

6 Configuring and Managing Virtual Storage

Identify storage protocols and storage device types
Discuss ESXi hosts using iSCSI, NFS, and Fibre Channel storage
Create and manage VMFS and NFS datastores
Explain how multipathing works with iSCSI, NFS, and Fibre Channel storage
Recognize the components of a VMware vSAN™ configuration

7 Virtual Machine Management

Use templates and cloning to deploy new virtual machines
Modify and manage virtual machines
Create a content library and deploy virtual machines from templates in the library
Use customization specification files to customize a new virtual machine
Perform vSphere vMotion and vSphere Storage vMotion migrations
Describe Enhanced vMotion Compatibility
Create and manage virtual machine snapshots
Examine the features and functions of VMware vSphere® Replication™
Describe the benefits of vSphere Storage APIs – Data Protection

8 Resource Management and Monitoring

Discuss CPU and memory concepts in a virtualized environment
Describe what overcommitment of a resource means
Describe methods for optimizing CPU and memory usage
Use various tools to monitor resource use
Create and use alarms to report certain conditions or events

9 vSphere Clusters

Describe the functions of a vSphere DRS cluster
Create a vSphere DRS cluster
Monitor a vSphere cluster configuration
Describe options for making a vSphere environment highly available
Explain the vSphere HA architecture
Configure and manage a vSphere HA cluster
Examine the features and functions of VMware vSphere® Fault Tolerance
Describe the function of the vSphere® Cluster Service

10 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

11 vSphere Lifecycle Management

Recognize the importance of vCenter Server Update Planner
Describe how VMware vSphere® Lifecycle Manager™ works
Describe how to update ESXi hosts using baselines
Validate ESXi host compliance using a cluster image
Describe how to upgrade VMware Tools and VM hardware
Describe VMware vSphere® Lifecycle Manager™ and VMware vSAN™ integration

12 Host and Management Scalability

Use host profiles to manage ESXi configuration compliance
Create and manage resource pools in a cluster
Describe how scalable shares work

13 Storage Scalability

Explain why VMware vSphere® VMFS is a highperformance, 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 vSphere Virtual Volumes architecture
Configure VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control

Méthodes et modalités d'évaluation

Questionnaire de positionnement Evaluation en cours de formation : mises en situation Evaluation de fin de formation : Cas pratique Bilan individuel des compétences acquises Questionnaire de satisfaction à chaud Attestation de fin de formation

Modalités d'Accessibilité

Nous consulter



Durée

35.00 Heures

5

Jours

Effectif

De 3 à 8 Personnes



Tarifs (net de taxes)

Inter (Par personne) :

3 850.00 €



Contactez-nous !

Agnès BOSSER
Ingénieur d'affaires IT

Tél. : 0690237500
Mail : abosser@strategie-info.com