

# Vmware vSphere: What's New (v5.5 to v6.5)

## INFORMATIONS GÉNÉRALES

**Type de formation :** Formation continue

**Éligible au CPF :** Non

**Domaine :** Systèmes et Réseaux

**Action collective :** Non

**Filière :** Cloud computing

**Editeur :** VMware

**Rubrique :** VMware

**Code de formation :** AS742

## € Tarifs

**Prix public :** 2450 €

### Tarif & financement :

Nous vous accompagnons pour trouver la meilleure solution de financement parmi les suivantes :

**Le plan de développement des compétences de votre entreprise :** rapprochez-vous de votre service RH.

**Le dispositif FNE-Formation.**

**L'OPCO** (opérateurs de compétences) de votre entreprise.

**France Travail:** sous réserve de l'acceptation de votre dossier par votre conseiller Pôle Emploi.

**CPF -MonCompteFormation**

Contactez nous pour plus d'information : [contact@aston-institut.com](mailto:contact@aston-institut.com)

## PRÉSENTATION

### Objectifs & compétences

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

### Public visé

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

### Pré-requis

This course requires completion of one the following courses or equivalent knowledge and administration experience with VMware ESX®/ESXi and vCenter Server

## 📍 Lieux & Horaires

**Durée :** 21 heures

**Délai d'accès :** Jusqu'à 8 jours avant le début de la formation, sous condition d'un dossier d'inscription complet

## PROGRAMME

Course Introduction  
Introductions and course logistics  
Course objectives

Introduction to vSphere 6.5 Discuss vSphere 6.5 feature enhancements  
Use vSphere Client, VMware Host Client, and the appliance shell of vCenter Server Appliance

3. Installation and Upgrade Describe new vCenter Server architecture features Choose between a distributed configuration and an embedded configuration based on your requirements Describe the enhancements to vCenter Server Appliance Describe the vCenter Server Appliance deployment Describe the hardware requirements for installing vCenter Server Appliance Identify the information that is needed before you begin the installation Deploy a Platform Services Controller appliance Describe how to upgrade vCenter Server Appliance 5.x to vCenter Server Appliance 6.5 Describe how to upgrade an ESXi 5.x host to an ESXi 6.5 host List the benefits of using the content library Create a basic content library Synchronize a content library across vCenter Server instances

4. Compute Enhancements Discuss the enhancements to vSphere 6.5 scalability and performance Discuss the additional features to support hot-plug and SMART solid-state drives Describe new capabilities of host profiles introduced in vSphere 6.5 Discuss the improvements to lockdown settings Describe the addition of smart-card authentication Explain the changes that enhance user accountability Discuss how virtual hardware 1.2 extends virtual machine resource configurations Describe how using large receive offload reduces CPU-associated costs for network packet processing Discuss how hot-add memory is distributed across NUMA nodes in vSphere 6.5

5. Storage Enhancements Discuss the benefits of using VMFS 6 with vSphere Upgrade from VMFS 5 to VMFS 6 Discuss the benefits of using VMFS 6 with vSphere Discuss the benefits of using NFS v4.1 with vSphere Identify the differences between NFS v3 and NFS v4.1 Describe the implications of using NFS v4.1 Describe the advantages of the new VMware Virsto tm on-disk file system Describe the advantages of the vsanSparse snapshot format Describe the advantages of fault domains to withstand rack-local failures Describe the benefits of applying different default policies to different VMware Virtual SAN™ datastores Describe the benefits of using virtual volumes Describe per virtual machine,

## 📅 Prochaines sessions

Consultez-nous pour les prochaines sessions.

policy-based policy management Describe how VMDK data operations are offloaded to storage arrays through the use of VMware vSphere® API for Storage Awareness tm

6. Network Enhancements Work with Network I/O Control Upgrade Network I/O Control to version 3 Enable network resource management on VMware vSphere® Distributed Switch tm Configure bandwidth allocation for system and virtual machine traffic based on shares and reservations. Discuss IPv6 support in vSphere 6.5

7. Management Enhancement List the core security modules that are part of Platform Services Controller List the VMware certificate management components Describe certificate use changes in vSphere 6.5 List the certificate management components that are part of Platform Services Controller Describe the primary services provided by the VMware Certificate Authority component Describe the primary services provided by the VMware Endpoint Certificate Store component Define VMware CA certificate replacement options Describe ESXi certificate replacement options Discuss certificate-based guest authentication

8. Availability Enhancements Describe the new TCP/IP stack for vSphere vMotion Explain the changes that make vSphere vMotion migrations across high-latency networks possible Discuss the requirements for migrating a virtual machine across vCenter Server instances Explain how VMware vSphere® Fault Tolerance supports virtual machines with multiple virtual CPUs Describe how vSphere Fault Tolerance maintains the secondary virtual machine in a ready state Explain the mechanism by which the primary virtual machine is determined Discuss the improvements made in handling all paths down and permanent device lost conditions Describe the increased scalability of vSphere HA Explain the additional compatibility supported by vSphere HA

9. Security Enhancements Plan for secure boot support for ESXi host Deploy enhanced vCenter Server events and alarms, and vSphere logging Evaluate virtual machine encryption Enable encrypted vSphere vMotion Use encrypted core dumps

## MODALITÉS

### Modalités

**Modalités :** en présentiel, distanciel ou mixte . Toutes les formations sont en présentiel par défaut mais les salles sont équipées pour faire de l'hybride. – Horaires de 9H à 12H30 et de 14H à 17H30 soit 7H – Intra et Inter entreprise.

**Pédagogie :** essentiellement participative et ludique, centrée sur l'expérience, l'immersion et la mise en pratique. Alternance d'apports théoriques et d'outils pratiques.

**Ressources techniques et pédagogiques :** Support de formation au format PDF ou PPT Ordinateur, vidéoprojecteur, Tableau blanc, Visioconférence : Cisco Webex / Teams / Zoom.

**Pendant la formation :** mises en situation, autodiagnostic, travail individuel ou en sous-groupe sur des cas réels.

### Méthode

**Fin de formation :** entretien individuel.

**Satisfaction des participants :** questionnaire de satisfaction réalisé en fin de formation.

**Assiduité :** certificat de réalisation.

**Validations des acquis :** grille d'évaluation des acquis établie par le formateur en fin de formation.