



Arrow ECS Finland Oy - Education Services

## TRAINING OFFERING

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<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
VMW_VSWN8	16 Hours (2 days)	€1,650.00

### Description

In this two-day course, you explore the new features and enhancements following VMware vCenter Server 8.0 and VMware ESXi 8.0. Real-world use-case scenarios, hands-on lab exercises, and lectures teach you the skills that you need to effectively implement and configure VMware vSphere 8.0.

### Objectives

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

- 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

### Prerequisites

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. The course material presumes that you can perform the following tasks with no assistance or guidance before enrolling in this course:
- Install and configure ESXi
  - Install vCenter Server
  - Create vCenter Server objects, such as data centers and folders
  - Create and manage vCenter Server roles and permissions
  - Create and modify a standard switch
  - Create and modify a distributed switch
  - Connect an ESXi host to NAS, iSCSI, or Fibre Channel storage
  - Create a VMware vSphere VMFS datastore
  - Use a content library template to create a virtual machine
  - Modify a virtual machine's hardware
  - Migrate a virtual machine with VMware vSphere vMotion and VMware vSphere Storage vMotion
  - Configure and manage a VMware vSphere Distributed Resource Scheduler cluster
  - Configure and manage a VMware vSphere High Availability cluster
  - Use VMware vSphere Lifecycle Manager to perform upgrades to ESXi hosts and VMs
- If you cannot complete these tasks, VMware recommends that you instead take the VMware vSphere: Install, Configure, Manage [V8] course.

## Programme

- 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+

## Further Information

### Product Alignment

- VMware ESXi 8.0
- VMware vCenter Server 8.0

## Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
16 Sep 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€1,650.00
11 Nov 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€1,650.00

### Additional Information

This training is also available as onsite training. [Please contact us to find out more.](#)