



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

---

**You can reach us at:**

Arrow ECS B.V., Kromme Schaft 5, 3991 AR Houten, The Netherlands

Email: [education.ecs.nl@arrow.com](mailto:education.ecs.nl@arrow.com)

Phone: +31 20 582 6109

CODE:	LENGTH:	PRICE:
VMW_VSWN8	16 Hours (2 days)	€1,490.00

### 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

### Programme

- 1 Course Introduction
  - Introductions and course logistics
- 2 Artificial Intelligence and Machine Learning
  - Describe how device groups support AI and ML in vSphere 8
- Course objectives
  - 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 • Describe the features of the Tanzu Kubernetes Grid 2.0 offering

## 13 Announcing vSphere+

- Describe the functionality and benefits of vSphere+

## 12 vSphere with Tanzu

## Further Information

### Product Alignment

- VMware ESXi 8.0
- VMware vCenter Server 8.0

## Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
17 Jun 2024	Virtual Classroom (CET / UTC+1)	CEDT	English	Instructor Led Online		€1,490.00

## Additional Information

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