

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware vSphere: Fast Track [V8]

CODE: LENGTH: PRICE:

VMW VSFT8 40 Hours (5 days) £4,930.00

Description

This five-day, extended hour course takes you from introductory to advanced VMware vSphere® 8 management skills. Building on the 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 handson 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 8, which includes VMware ESXi™ 8 and VMware vCenter Server® 8.

Objectives

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

- Install and configure ESXi hosts
- · Deploy and configure vCenter
- Use the vSphere Client to create the vCenter inventory and assign roles to vCenter users
- · Configure vCenter High Availability
- Create and configure virtual networks using vSphere standard switches and distributed switches
- Create and configure datastores using storage technologies supported by vSphere
- Use the vSphere Client to create virtual machines, templates, clones, and snapshots
- Configure and manage a VMware Tools Repository
- Create content libraries for managing templates and deploying virtual machines
- · Manage virtual machine resource use
- Migrate virtual machines with vSphere vMotion and vSphere Storage vMotion
- Create and configure a vSphere cluster that is enabled with vSphere High Availability and vSphere Distributed Resource Scheduler
- Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date
- · Configure and manage vSphere networking and storage for a large and sophisticated enterprise
- Use host profiles to manage VMware ESXi host compliance
- Monitor the vCenter, ESXi, and VMs performance in the vSphere client

Audience

- System Administrators
- System Engineers

Prerequisites

This course has the following prerequisites: System administration experience on Microsoft Windows or Linux operating systems

Programme

2 vSphere and Virtualization Overview

- Explain basic virtualization concepts
- Describe how vSphere fits in the software-defined data center and the cloud infrastructure
- Recognize the user interfaces for accessing vSphere
- Introductions and course logistics Explain how vSphere interacts with CPUs, memory, networks, storage, and GPUs
- · Install an ESXi host
- · Course objectives

3 vCenter Management

1 Course Introduction

- · Recognize ESXi hosts communication with vCenter
- Deploy vCenter Server Appliance
- · Configure vCenter settings
- Use the vSphere Client to add and manage license keys
- · Create and organize vCenter inventory objects
- Recognize the rules for applying vCenter permissions
- · View vSphere tasks and events
- · Create a vCenter backup schedule
- Recognize the importance of vCenter High Availability
- · Explain how vCenter High Availability works

5 Configure and Manage vSphere Storage

· Describe iSCSI components and addressing

· Recognize vSphere storage technologies

Identify types of vSphere datastores

· Configure iSCSI storage on ESXi Create and manage VMFS datastores

Configure and manage NFS datastores

4 Configure and Manage vSphere Networking

- · Configure and view standard switch configurations
- · Configure and view distributed switch configurations

Describe Fibre Channel components and addressing

- · Recognize the difference between standard switches and distributed switches
- Explain how to set networking policies on standard and distributed switches

6 Deploying Virtual Machines

- · Create and provision VMs
- Explain the importance of VMware Tools
- Identify the files that make up a VM
- Recognize the components of a VM
- Navigate the vSphere Client and examine VM settings and options
- · Modify VMs by dynamically increasing resources
- Create VM templates and deploy VMs from them
- Clone VMs
- Create customization specifications for guest operating systems
- Create local, published, and subscribed content libraries
- Deploy VMs from content libraries
- Discuss vSphere support for NVMe and iSER technologies Manage multiple versions of VM templates in content libraries

7 Managing Virtual Machines

- Recognize the types of VM migrations that you can perform within a vCenter instance and across vCenter instances
- Migrate VMs using vSphere vMotion
- Describe the role of Enhanced vMotion Compatibility in migrations
- Migrate VMs using vSphere Storage vMotion
- · Take a snapshot of a VM
- · Manage, consolidate, and delete snapshots
- Describe CPU and memory concepts in relation to a virtualized environment
- Describe how VMs compete for resources
- · Define CPU and memory shares, reservations, and limits
- Recognize the role of a VMware Tools Repository
- Configure a VMware Tools Repository
- · Recognize the backup and restore solution for VMs

8 vSphere Cluster Management

- Use Cluster Quickstart to enable vSphere cluster services and configure the cluster
- · View information about a vSphere cluster
- Explain how vSphere DRS determines VM placement on hosts in the cluster
- Recognize use cases for vSphere DRS settings
- Monitor a vSphere DRS cluster
- Describe how vSphere HA responds to differenttypes of failures
- Identify options for configuring network redundancy in a vSphere HA cluster
- Recognize the use cases for various vSphere HA settings
- · Configure a cluster enabled for vSphere DRS and vSphere HA
- · Recognize when to use vSphere Fault Tolerance
- · Describe the function of the vCLS
- Recognize operations that might disrupt the healthy functioning of vCLS VMs

9 Managing the vSphere Lifecycle

- Generate vCenter interoperability reports
- · Recognize features of vSphere Lifecycle Manager
- · Describe ESXi images and image depots
- Enable vSphere Lifecycle Manager in a vSphere cluster
- Validate ESXi host compliance against a cluster image and remediate ESXi hosts using vSphere Lifecycle Manager
- Describe vSphere Lifecycle Manager automatic recommendations
- Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware

10 Network Operations

- Configure and manage vSphere distributed switches
- Describe how VMware vSphere Network I/O Control enhances performance
- Define vSphere Distributed Services Engine
- Describe the use cases and benefits of vSphere Distributed Services Engine

11 Storage Operations

- Describe the architecture and requirements of vSAN configuration
- Describe storage policy-based management
- Recognize components in the vSphere Virtual Volumes architecture
- Configure Storage I/O Control

12 ESXi Operations

- Use host profiles to manage ESXi configuration compliance
- · Recognize the benefits of using configuration profiles

13 vSphere Monitoring

- Monitor the key factors that can affect a virtual machine's performance
- Describe the factors that influence vCenter performance
- Use vCenter tools to monitor resource use
- · Create custom alarms in vCenter
- Describe the benefits and capabilities of VMware Skyline
- · Recognize uses for Skyline Advisor Pro

Test and Certification

Attending this course meets the training requirement to achieve the following certification:

VMware Certified Professional – Data Center Virtualization (VCP-DCV)

Further Information

• VMware ESXi 8.0

Product Alignment • VMware vCenter 8.0

Session Dates

Date	Location	Time Zone	Language	Туре	Guaranteed	PRICE
20 May 2024	Virtual Classroom	BST	English	Instructor Led Online		£4,930.00
02 Sep 2024	Virtual Classroom	BST	English	Instructor Led Online		£4,930.00
02 Sep 2024	Arrow ECS London c/o Imparando	BST	English	Classroom		£4,930.00
04 Nov 2024	Virtual Classroom	GMT	English	Instructor Led Online		£4,930.00
02 Sep 2024	Arrow ECS Harrogate	BST	English	Classroom		£4,930.00

Additional Information

