Manuals+ — User Manuals Simplified.

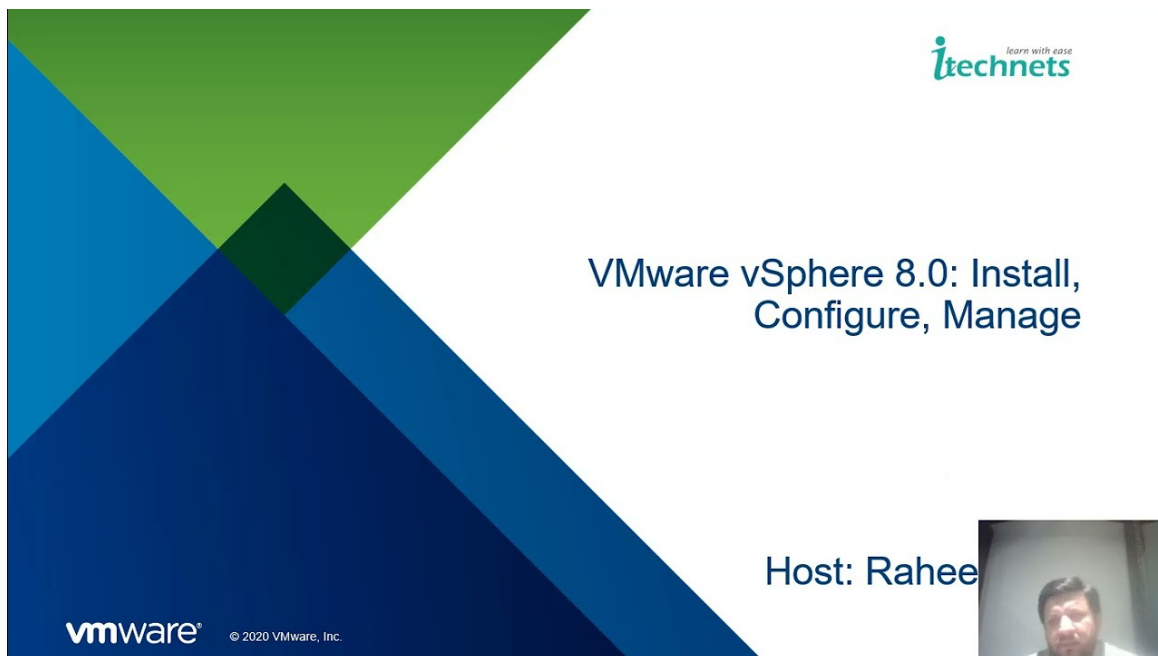# VMware ESXi 8.0 vSphere Install Configure Manage User Guide

Contents

VMware ESXi 8.0 vSphere Install Configure Manage

Product Information

Specifications:

- Length: 5 days
- Price (Incl. GST): $6589
- Version: 8.0

Product Description

Lumify Work is a VMware Education Reseller Partner (VERP) that offers training in various VMware technologies and platforms. The VMware vSphere: Install, Configure, Manage course is designed to provide intensive hands-on training on installing, configuring, and managing VMware vSphere 8, which includes VMware ESXi 8 and VMware vCenter 8. This course is suitable for individuals who want to administer a vSphere infrastructure for organizations of any size. It serves as the foundation for most VMware technologies in the software-defined data center.

What You'll Learn:

- Install and configure ESXi hosts
- Deploy and configure vCenter
- Use the vSphere Client to create the vCenter inventory and assign roles to vCenter users
- Create 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
- Create content libraries for managing templates and deploying virtual machines
- Manage virtual machine resource allocation
- Migrate virtual machines with vSphere vMotion and vSphere Storage vMotion
- Create and configure a vSphere cluster that is enabled with vSphere High Availability (HA) and vSphere Distributed Resource Scheduler
- Manage the lifecycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date

Product Usage Instructions

Course Introduction

The course starts with introductions and covers the logistics of the training. The objectives of the course will be discussed, and Lumify Work's customized training approach will be highlighted.

Frequently Asked Questions (FAQ)

Q: How long is the course?

A: The course has a duration of 5 days.

Q: What is the price of the course?

A: The price of the course, including GST, is $6589.

Q: What version of VMware vSphere is covered in this course?

A: This course covers VMware vSphere 8.0.

Q: What topics will I learn in this course?

A: In this course, you will learn various topics such as installing and configuring ESXi hosts, deploying and configuring vCenter, creating virtual networks, managing datastores, creating virtual machines and templates, migrating virtual machines, configuring vSphere clusters, and managing the lifecycle of vSphere.

Q: Is this course suitable for individuals who want to administer a vSphere infrastructure for organizations of any size?

A: Yes, this course is designed for individuals who want to administer a vSphere infrastructure for organizations of any size.

Q: What are the prerequisites for taking this course?

A: There are no specific prerequisites mentioned in the provided information. However, it is recommended to have a basic understanding of virtualization concepts and familiarity with operating system and networking concepts.

LENGTH	PRICE (Incl. GST)	VERSION
5 days	$6589	8.0

VMWARE AT LUMIFY WORK

VMware is the world leader in server virtualisation technologies. Lumify Work is a VMware Education Reseller Partner (VERP), offering training in vSphere, vRealize, vSAN, Horizon, NSX-T, Workspace ONE, Carbon Black, and other VMware technologies and platforms.

WHY STUDY THIS COURSE

This course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere 8, which includes VMware ESXi 8 and VMware vCenter 8. This course prepares you to administer a vSphere infrastructure for an organisation of any size.

This course is the foundation for most VMware technologies in the software-defined data center.

Product Alignment:

- VMware ESXi 8.0
- VMware vCenter 8.0

WHAT YOU'LL LEARN

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
- Create 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
- Create content libraries for managing templates and deploying virtual machines
- Manage virtual machine resource allocation
- Migrate virtual machines with vSphere vMotion and vSphere Storage vMotion
- Create and configure a vSphere cluster that is enabled with vSphere High Availability (HA) and vSphere Distributed Resource Scheduler
- Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date
  - My instructor was great being able to put scenarios into real world instances that related to my specific situation.
  - I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable.
  - I learnt a lot and felt it was important that my goals by attending this course were met.
  - Great job Lumify Work team.
- **AMANDA NICOL**

  IT SUPPORT SERVICES MANAGER – HEALT H WORLD LIMITED

COURSE SUBJECTS

1. **Course Int roduction**
   - Introductions and course logistics
   - Course objectives
2. **vSphere and Virt ualisat ion Overview**
   - Explain basic virtualisation concepts
   - Describe how vSphere fits in the software-defined data center and the cloud infrastructure
   - Recognise the user interfaces for accessing vSphere
   - Explain how vSphere interacts with CPUs, memory, networks, storage, and GPUs

3. **Installing and Configuring ESXi**

   - Install an ESXi host

   - Recognise ESXi user account best practices

   - Configure the ESXi host settings using the DCUI and VMware Host Client

4. **Deploying and Configuring vCenter**

   - Recognise ESXi hosts communication with vCenter

   - Deploy vCenter Server Appliance

   - Configure vCenter settings

   - Use the vSphere Client to add and manage license keys

   - Create and organise vCenter inventory objects

   - Recognise the rules for applying vCenter permissions

   - View vCenter logs and events

5. **Configuring vSphere Networking**

   - Configure and view standard switch configurations

   - Configure and view distributed switch configurations

   - Recognise the difference between standard switches and distributed switches

   - Explain how to set networking policies on standard and distributed switches

6. **Configuring vSphere Storage**

   - Recognise vSphere storage technologies

   - Identify types of vSphere datastores

   - Describe Fibre Channel components and addressing

   - Describe iSCSI components and addressing

   - Configure iSCSI storage on ESXi

   - Create and manage VMFS datastores

   - Configure and manage NFS datastores

7. **Deploying Virtual Machines**

   - Create and provision VMs

   - Explain the importance of VMware Tools

   - Identify the files that make up a VM

   - Recognise 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 customisation specifications for guest operating systems Create local, published, and subscribed content libraries

   - Deploy VMs from content libraries

   - Manage multiple versions of VM templates in content libraries

8. **Managing Virtual Machines**

   - Recognise 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 virtualised environment
- Describe how VMs compete for resources
- Define CPU and memory shares, reservations, and limits

9. **Deploying and Configuring vSphere Clusters**
    1. Create a vSphere cluster enabled for vSphere DRS and vSphere HA View information about a vSphere cluster
    2. Explain how vSphere DRS determines VM placement on hosts in the cluster
    3. Recognise use cases for vSphere DRS settings
    4. Monitor a vSphere DRS cluster
    5. Describe how vSphere HA responds to various types of failures
    6. Identify options for configuring network redundancy in a vSphere HA cluster
    7. Recognise vSphere HA design considerations
    8. Recognise the use cases for various vSphere HA settings
    9. Configure a vSphere HA cluster
    10. Recognise when to use vSphere Fault Tolerance

10. **Managing the vSphere Lif ecycle**
    - Enable vSphere Lifecycle Manager in a vSphere cluster
    - Describe features of the vCenter Update Planner
    - Run vCenter upgrade prechecks and interoperability reports
    - Recognise features of vSphere Lifecycle Manager
    - Distinguish between managing hosts using baselines and managing hosts using images
    - Describe how to update hosts using baselines
    - Describe ESXi images
    - Validate ESXi host compliance against a cluster image and update ESXi hosts
    - Update ESXi hosts using vSphere Lifecycle Manager
    - Describe vSphere Lifecycle Manager automatic recommendations
    - Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware

WHO IS THE COURSE FOR?

- System administrators
- Systems engineer
  We can also deliver and customise this training course for larger groups – saving your organisation time, money and resources. For more information, please contact us on 1800 U LEARN (1800 853 276)

PREREQUISITES

This course requires the following prerequisites:

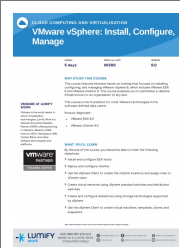System administration experience on Microsoft Windows or Linux operating systems

The supply of this course by Lumify Work is governed by the booking terms and conditions. Please read the terms and conditions carefully before enrolling in this course, as enrolment in the course is conditional on acceptance of these terms and conditions.

https://www.lumifywork.com/en-au/courses/vmware-vsphere-install-configure-manage/

Call 1800 853 276 and speak to a Lumify Work Consultant today!

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Documents / Resources

VMware ESXi 8.0 vSphere Install Configure Manage [pdf] User Guide
ESXi 8.0 vSphere Install Configure Manage, ESXi 8.0, vSphere Install Configure Manage, Configure Manage

References

- 🌐 **Lumify Work | Lumify Work AU**
- 🌐 **Lumify Work | Lumify Work AU**
- 🌐 **VMware vSphere: Install, Configure, Manage | Lumify Work AU**
- **User Manual**