



VMware vSphere: Advanced Administration

LENGTH

5 days

VERSION

8

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

Learn a range of skills, from performing routine VMware vSphere 8 administrative tasks to complex vSphere operations and configurations. Through lab-based activities, students are immersed in real-life situations faced by VMBeans, a fictitious company. These situations expose students to real-life scenarios faced by companies that are building and scaling their virtual infrastructure.

This course uses scenario-based lab exercises and does not provide guided step-by-step instructions. To complete the scenario-based lab exercises, you are required to analyse the task, research, and deduce the required solution. References and suggested documentation are provided. This course utilises labs to teach students how to effectively navigate and manage vSphere.

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:

- › Configure VMware vCenter® and VMware ESXi™
- › Configure and manage a vSphere cluster solution for vSphere HA, vSphere DRS, and vSAN
- › Configure vSphere storage and networking
- › Perform lifecycle operations on vSphere components
- › Troubleshoot vSphere infrastructure and connectivity issues
- › Back up vCenter configurations

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› Implement solutions for securing the vSphere infrastructure



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.



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COURSE SUBJECTS

1. Course Introduction

- Introductions and course logistics
- Course objectives

2. Creating and Configuring Management Clusters

- Create a vSphere cluster for management workloads
- Activate vSphere cluster features that help to improve resource allocation and availability of virtual machines
- Use standard virtual switches to create networking in a cluster
- Select the appropriate vSphere storage types to meet requirements
- Configure iSCSI storage
- Configure VMFS and NFS datastores
- Recognise when to configure ESXi NTP and PTP support
- Recognise ESXi user account best practices
- Configure ESXi host settings
- Use vSphere configuration profiles to maintain consistent ESXi host configurations

3. Creating and Configuring Production Clusters

- Use Cluster Quickstart to create a vSAN-activated cluster
- Configure advanced vSphere HA settings
- Configure the vCenter identity provider
- Assign specific permissions and roles to Active Directory Federation Services (ADFS) users
- Configure Enhanced vMotion Compatibility on a cluster and a VM

Lumify Work Customised Training

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 [02 8286 9429](tel:0282869429).

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- Perform a Cross vCenter Server migration
- Use content libraries to share virtual machine templates between sites
- Manage VM and ESXi host resources using resource pools, scalable shares, and vSphere DRS rules

4. Troubleshooting vSphere and Backing Up Configurations

- Troubleshoot ESXi connectivity issues
- Troubleshoot ESXi storage issues
- Troubleshoot vSphere cluster issues
- Troubleshoot PowerCLI issues
- Generate vCenter and ESXi log bundles
- Back up vCenter
- Create a vCenter profile to standardise configurations in the environment

5. Lifecycle Management

- Troubleshoot upgrade-blocking issues
- Increase logging levels on vCenter
- Configure a VMware Tools™ shared repository
- Upgrade vCenter
- Upgrade ESXi
- Upgrade VMware Tools
- Upgrade virtual machine hardware compatibility

6. vSphere Security

- Configure a key management server
- Encrypt virtual machines using vSphere VM encryption

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CLOUD COMPUTING AND VIRTUALISATION

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- Secure VMs in transit with encrypted vSphere vMotion
- Identify and implement different ESXi CPU scheduler options
- Apply security hardening guidelines to ESXi hosts
- Replace vCenter certificates with trusted CA-signed certificates
- Reconfigure the primary network identifier for a vCenter instance

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WHO IS THE COURSE FOR?

- System administrators
- System engineers

PREREQUISITES

This course requires completion of the following prerequisites:

- [VMware vSphere: Install, Configure, Manage](#)
- [VMware vSphere: Operate, Scale, and Secure](#)
- Working knowledge of VMware vSAN™
- 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.

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