VMware vSphere: Advanced Administration [V8]

Category: Infrastructure & IT Operations | **Vendor:** VMware

Duration: 40.00 hours (5 days) **32.5 CPD Hours**

Rating: ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Certification: VMware Certified Advanced Professional – Data Center Virtualization Deploy

Course Overview

This five-day course provides hands-on training to equip students with 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 analyze the task, research, and deduce the required solution. References and suggested documentation are provided. This course utilizes labs to teach students how to effectively navigate and manage vSphere. The course aligns fully with the VMware Certified Advanced Professional – Data Center Virtualization Deploy exam objectives.

Product Alignment

- VMware ESXi 8.0
- VMware vCenter 8.0

About This Course

Course Introduction

- Introductions and course logistics
- Course objectives

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
- Recognize when to configure ESXi NTP and PTP support
- Recognize ESXi user account best practices
- Configure ESXi host settings
- Use vSphere configuration profiles to maintain consistent ESXi host configurations

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
- 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

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 standardize configurations in the environment

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

vSphere Security

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

Who Should Attend

- System administrators
- System engineers

Prerequisites & Entry Requirements

General 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

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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
- Implement solutions for securing the vSphere infrastructure

Skills You Will 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
- Implement solutions for securing the vSphere infrastructure

Frequently Asked Questions

Q: What delivery options are available for VMware vSphere: Advanced Administration [V8]?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The VMware vSphere: Advanced Administration [V8] course helps prepare you for the VMware Certified Advanced Professional – Data Center Virtualization Deploy certification path.

Q: How many CPD hours does this course provide?

The 5-day VMware vSphere: Advanced Administration [V8] course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the VMware vSphere: Advanced Administration [V8] training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for VMware vSphere: Advanced Administration [V8]?

Yes, we provide corporate training, dedicated training, and closed classes for VMware vSphere: Advanced Administration [V8]. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: VMware vSphere: Advanced Administration [V8], VMware vSphere, VSAA8

Q: Why choose Nexus Human for VMware vSphere: Advanced Administration [V8]?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your VMware vSphere: Advanced Administration [V8] training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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