

# VMware vSphere: Advanced Administration [V8]

Course code: VMW\_VSAAW

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. Approximately 90% of the class is application-focused and taught through labs. The course aligns fully with the VMware Certified Advanced Professional – Data Center Virtualization Deploy exam objectives.

Affiliate	Duration	Course price	ITB
Praha	5	54 000 Kč	0
Bratislava	5	2 200 €	0

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
10.02.2025	5	54 000 Kč	Online	CZ/SK	Gopas Praha Přeprdej online
17.02.2025	5	54 000 Kč	Online	EN	Gopas Praha Přeprdej online
17.03.2025	5	54 000 Kč	Online	EN	Gopas Praha Přeprdej online
07.04.2025	5	54 000 Kč	Online	EN	Gopas Praha Přeprdej online
12.05.2025	5	2 200 €	Online	CZ/SK	Gopas Bratislava Přeprdej online
12.05.2025	5	54 000 Kč	Online	EN	Gopas Praha Přeprdej online
12.05.2025	5	54 000 Kč	Online	CZ/SK	Gopas Praha Přeprdej online
12.05.2025	5	54 000 Kč	Presence	CZ/SK	Gopas Praha Přeprdej prezenční
16.06.2025	5	54 000 Kč	Online	EN	Gopas Praha Přeprdej online
08.09.2025	5	2 200 €	Online	CZ/SK	Gopas Bratislava Přeprdej online
08.09.2025	5	54 000 Kč	Presence	CZ/SK	Gopas Praha Přeprdej prezenční
08.09.2025	5	54 000 Kč	Online	CZ/SK	Gopas Praha Přeprdej online
01.12.2025	5	2 200 €	Online	CZ/SK	Gopas Bratislava Přeprdej online

The prices are without VAT.

## Who is the course for

- System administrators
- System engineer

## What we teach you

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

- Enable cluster features and configure vSphere storage and networking
- Use host profiles to automate host configurations
- Use Cluster Quickstart to create a VMware vSAN™ enabled cluster

### GOPAS Praha

Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Brno

Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Bratislava

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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# VMware vSphere: Advanced Administration [V8]

- Configure the VMware vCenter Server® identity provider
- Troubleshoot host connectivity and storage connectivity
- Perform lifecycle operations on vSphere components
- Implement security hardening guidelines to vSphere and virtual machines

## Required skills

This course requires the following prerequisites:

- Completion of VMware vSphere: Optimize and Scale [V7] course
- VMware Certified Professional – Data Center Virtualization (VCP-DCV) certification
- System administration experience on Microsoft Windows or Linux operating systems

## Course outline

### 1 Course Introduction

- Introductions and course logistics
- Course objectives
- Introduction to fictitious company: VMBeans

### 2 Creating and Configuring Management Clusters

- Enable cluster features that help to improve resource allocation and availability of virtual machines
- Use standard virtual switches to create networking in a cluster
- Recognize when to use VMware vSphere® vMotion®
- Recognize requirements for using iSCSI
- Identify the purpose of iSCSI multipathing
- Select the appropriate vSphere storage types to meet requirements
- Recognize when to configure ESXi NTP support
- Recognize ESXi user account best practices
- Configure ESXi host settings
- Use host profiles appropriately

### 3 Creating and Configuring Production Clusters

- Use Cluster Quickstart to create a vSAN enabled cluster
- Configure advanced vSphere HA settings
- Recognize the benefits of Active Directory Federation Services (ADFS)
- Configure the vCenter Server identity provider
- Assign specific permissions and roles to ADFS users
- Recognize how Enhanced vMotion Compatibility benefits VM mobility
- Perform a Cross vCenter Server Migration
- Use content libraries to share virtual machine templates between sites

### 4 Troubleshooting vSphere and Backing Up Configurations

- Troubleshoot ESXi connectivity issues
- Troubleshoot iSCSI storage issues
- Troubleshoot vSphere cluster resources
- Troubleshoot VMware PowerCLI™ issues

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#### GOPAS Brno

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602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

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Tel.: +421 248 282 701-2  
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- Back up vCenter Server

## 5 Lifecycle Management

- Troubleshoot upgrade-blocking issues
- Increase logging levels on vCenter Server
- Configure a VMware Tools™ shared repository
- Upgrade vCenter Server
- Upgrade ESXi
- Upgrade VMware Tools
- Upgrade Virtual Machine Compatibility

- Work with VM placement rules

## 6 vSphere Security

- Manage advanced virtual machine configurations
- 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 Server certificates with trusted CA-signed certificates
- Deploy a new vCenter Server instance
- Reconfigure the primary network identifier for vCenter Server

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