

# VMware vSphere: Advanced Administration [V8]

Kód kurzu: 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.

| Pobočka    | Dní | Katalógová cena | ITB |
|------------|-----|-----------------|-----|
| Praha      | 5   | 54 000 Kč       | 0   |
| Brno       | 5   | 54 000 Kč       | 0   |
| Bratislava | 5   | 2 298 €         | 0   |

Všetky ceny sú uvedené bez DPH.

## Termíny kurzu

| Dátum      | Dní | Cena kurzu | Typ výučby | Jazyk výučby | Lokalita                |
|------------|-----|------------|------------|--------------|-------------------------|
| 21.09.2026 | 5   | 54 000 Kč  | Online     | EN           | TD SYNEX Czech - Online |
| 19.10.2026 | 5   | 54 000 Kč  | Online     | EN           | TD SYNEX Czech - Online |
| 16.11.2026 | 5   | 54 000 Kč  | Online     | EN           | TD SYNEX Czech - Online |
| 30.11.2026 | 5   | 2 298 €    | Prezenčný  | CZ/SK        | Bratislava              |
| 30.11.2026 | 5   | 54 000 Kč  | Prezenčný  | CZ/SK        | TD SYNEX Czech          |
| 30.11.2026 | 5   | 54 000 Kč  | Online     | CZ/SK        | TD SYNEX Czech - Online |
| 14.12.2026 | 5   | 54 000 Kč  | Online     | EN           | TD SYNEX Czech - Online |
| 25.01.2027 | 5   | 54 000 Kč  | Online     | EN           | TD SYNEX Czech - Online |
| 22.02.2027 | 5   | 54 000 Kč  | Online     | EN           | TD SYNEX Czech - Online |
| 15.03.2027 | 5   | 54 000 Kč  | Online     | EN           | TD SYNEX Czech - Online |
| 26.04.2027 | 5   | 54 000 Kč  | Online     | EN           | TD SYNEX Czech - Online |
| 17.05.2027 | 5   | 54 000 Kč  | Online     | EN           | TD SYNEX Czech - Online |
| 21.06.2027 | 5   | 54 000 Kč  | Online     | EN           | TD SYNEX Czech - Online |

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## Pre koho je kurz určený

- System administrators
- System engineer

## Čo Vás naučíme

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
- Configure the VMware vCenter Server® identity provider

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- Troubleshoot host connectivity and storage connectivity
- Perform lifecycle operations on vSphere components
- Implement security hardening guidelines to vSphere and virtual machines

## Požadované vstupné znalosti

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

## Študijné materiály

Príručka ku kurzu firmy VMware podľa programu kurzu.

## Osnova kurzu

### 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

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- Troubleshoot VMware PowerCLI™ issues

- 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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