

VMware vSphere: Advanced Administration Workshop

Duration: 5 Days Course Code: VSAAW Version: 7

Overview:

This five-day course provides hands-on training to equip students with a range of skills, from performing routine VMware vSphere® 7 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.

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.

Product Alignment

- VMware ESXi 7
- VMware vCenter Server 7

Target Audience:

- System administrators
- System engineer

Objectives:

- By the end of the course, you should be able to meet the following objectives:
- Configure and manage complex storage solutions in a vSphere environment (including NFS, iSCSI, and so on)
- Configure and manage complex, scalable vSphere networking operations (vSphere Standard Switch and Distributed Switches)
- Deploy, manage, and optimize virtual machines (advanced configuration, content library, latency-sensitive workloads, and more)
- Manage business continuity and operations in your vSphere environment (VMware vCenter® Server Appliance™ file-based backup, VMware vCenter Server® profiles, host profiles, and so on)
- Plan and implement increased vSphere security (use a Key Provider, VM Encryption, CPU scheduler remediations, and so on)
- Troubleshoot the vSphere environment
- Use VMware vSphere® Lifecycle Manager™ to upgrade to VMware ESXi™ hosts and virtual machines (VUM, image-based clusters, and so on)
- Implement vSphere cluster solutions (Cluster QuickStart wizard, VMware vSphere® Distributed Resource Scheduler™, VMware vSphere® High Availability, VMware vSAN™, and so on)
- Implement resource optimizations to streamline vSphere deployments
- Create an advanced configuration of vCenter Server (including an identity source)

Prerequisites:

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

Content:

1 Course Introduction

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

2 Configure and Manage Your vSphere Environment

- Perform various vCenter Server configurations
- Configure an external identity source
- Configure virtual networking with advanced options
- Configure and manage advanced storage configurations
- Configure vSphere clusters (also using Cluster QuickStart)

3 Management and Operations in Your Data Center

- Collect vSphere log files
- Configure vCenter Server file-based backup
- Working with vCenter Server profiles
- Configure and manage advanced cluster settings
- Create and configure advanced host options
- Create and manage host profiles
- Manage and remediate clusters using vSphere Lifecycle Manager
- Create and configure a Content Library
- Update a managed virtual machine template
- Configure a central VMware Tools™ installation repository
- Manage vSphere roles and permissions

4 Troubleshoot Your Data Center Environment

- Troubleshoot vSphere configuration issues
- Troubleshoot resource pool configuration issues
- Troubleshoot network and storage issues
- Troubleshoot ESXi host issues
- Troubleshoot vCenter Server resource issues

5 Increasing Security in Your Data Center

- Create and manage a Key Management solution
- Create an encrypted virtual machine
- Configure CPU scheduler options to achieve security remediations

6 Performance and Optimization in Your Data Center

- Manage advanced virtual machine configurations
- Identify and implement vSphere resource optimization opportunities

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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