VMware vSphere: Advanced Administration [8.0] Training

Duration: **5 Day**

BILGINC IT Academy
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Overview

This **five-day expert-level course** equips participants with skills ranging from routine**VMware vSphere® 8 administration tasks** to complex operations and troubleshooting. Using**scenario-based labs** (not simple step-by-step guides), students face **real-world challenges** similar to those in enterprise environments.

Scenarios are based on VMBeans, a fictitious company, allowing learners to build and scale virtual infrastructures while solving operational problems.

The course fully aligns with the **VMware Certified Advanced Professional – Data Center Virtualization Deploy (VCAP-DCV Deploy)** exam objectives.

Product Alignment

- VMware ESXi 8.0
- VMware vCenter 8.0
- VMware vSphere

Prerequisites

- **VMware vSphere: Install, Configure, Manage**
- **VMware vSphere: Operate, Scale, and Secure**
- Working knowledge of VMware vSAN
- System administration experience on Windows or Linux

Who Should Attend

- System administrators
- System engineers

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What You Will Learn

By the end of the course, you will be able to:

- Configure vCenter and ESXi
- Create and manage HA, DRS, and vSAN-enabled clusters
- Configure vSphere networking and storage
- Perform lifecycle operations on vSphere components
- Troubleshoot infrastructure and connectivity issues
- Back up and restore vCenter configurations
- Implement vSphere security best practices

Outline

1. Course Introduction

- Objectives and scenario-based methodology

2. Creating and Configuring Management Clusters

- Build management workload clusters
- Networking with standard switches
- Configure iSCSI, VMFS, and NFS datastores
- ESXi account best practices
- Maintain consistency with configuration profiles

3. Creating and Configuring Production Clusters

- Deploy vSAN-enabled clusters
- Advanced HA configuration
- vCenter identity provider and ADFS roles
- Enhanced vMotion Compatibility and cross-vCenter migration
- Content Libraries for template sharing
- Resource Pools, scalable shares, and DRS rules

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4. Troubleshooting and Backups

- Troubleshoot ESXi networking, storage, and cluster issues
- Solve PowerCLI errors
- Generate vCenter and ESXi log bundles
- Backup vCenter configurations

5. Lifecycle Management

- Troubleshoot upgrade-blocking issues
- vCenter, ESXi, VMware Tools, and VM hardware upgrades
- vSphere Lifecycle Manager for patching and updates

6. Security

- Configure a Key Management Server (KMS)
- Encrypt VMs with vSphere VM encryption
- Secure migrations with encrypted vMotion
- Apply ESXi CPU scheduler options
- Implement ESXi security hardening guidelines
- Replace vCenter certificates with CA-signed ones