# VMware vSphere: Operate, Scale and Secure Training

Duration: **5 Day**

BİLGİNÇ IT Academy
info@bilginc.com
bilginc.com

## Overview

This **5-day advanced training** is designed to provide participants with the expertise to **configure, secure, and optimize VMware vSphere® 8** environments for high availability and scalability.

Through a blend of **lectures and hands-on labs**, you will explore advanced vSphere features, understand their impact, and learn how to apply them in large enterprise environments.

## Prerequisites

- Completed **VMware vSphere: Install, Configure, Manage [V8]** or equivalent knowledge
- Hands-on experience with ESXi and vCenter
- Basic command-line skills

## Who Should Attend

- System Administrators
- System Engineers
- Virtual Infrastructure Specialists

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## What You Will Learn

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

- Configure and manage a VMware Tools Repository
- Deploy vSphere Replication and recover replicated VMs
- Create and manage resource pools with scalable shares
- Configure advanced networking with Distributed Switches, NIOC, Port Mirroring, and NetFlow
- Manage storage with vSAN, Virtual Volumes, and Storage I/O Control
- Configure and manage vCenter High Availability (HA)
- Use Host Profiles and Configuration Profiles for ESXi host compliance
- Manage vSphere certificates via Client and CLI
- Monitor performance with Skyline and Advisor Pro
- Secure vSphere components with Identity Federation and Trust Authority
- Encrypt, manage, and migrate secure VMs

## Outline

### 1. Course Introduction

- Objectives and logistics

### 2. Virtual Machine Operations

- VMware Tools Repository
- Backup & Restore solutions
- vSphere Replication & Site Recovery

### 3. Cluster Operations

- Resource Pools
- Scalable Shares
- vCLS operations

### 4. Network Operations

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- Distributed Switches
- Network I/O Control
- Port Mirroring & NetFlow
- Distributed Services Engine

### 5. Storage Operations

- vSAN architecture
- Storage policies
- Virtual Volumes
- Storage I/O Control

### 6. vCenter and ESXi Operations

- Backup scheduling
- vCenter HA
- Host Profiles & Compliance
- Certificate management

### 7. Monitoring

- Performance factors for VMs & vCenter
- Custom alarms
- VMware Skyline & Advisor Pro

### 8. Security and Access Control

- Securing vCenter, ESXi, and VMs
- Security protocols and standards
- Identity Federation & external identity providers

### 9. Trusted Environments and VM Encryption

- ESXi authentication
- VM encryption architecture
- Managing encrypted VMs
- Trust Authority

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