

VMWARE

COURSE CURRICULUM



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Course Objectives

- Understand virtualization, virtual machines, and vSphere components
- Gain familiarity with Linux/Windows administration
- Learn basic vSphere architectures and deployment models
- Install, configure, and manage VMware infrastructure

Pre-requisites

- Basic knowledge of Linux/Windows administration
- Understanding of fundamental vSphere architectures

Module 1: VMware Introduction

- Introduction and course logistics
- Course objectives overview

Module 2: Virtualized Data Center

- Components of the virtualized data center (Host, VM, Virtual Center, VMNic, Update Manager)
- Installation and use of vSphere Client

Module 3: Installing VMware Components

- ESXi installation process
- Boot-from-SAN requirements
- vCenter Server deployment options
- vCenter Server hardware, software, and database requirements
- Installation of Windows-based vCenter Server

Module 4: Configuring and Managing Virtual Networks

- Create and manage a standard switch
- Modify standard switch properties
- Configure virtual switch load-balancing algorithms

Module 5: VMware vCenter Server Deployment (vSphere 5.5)

- Installation of Windows Server 2008 R2 for Virtual Center Server
- Installation and configuration of SQL 2014 Database
- Database creation for SSO, vCenter Server & Update Manager
- Creation of DSN links for vCenter & Update Manager
- Installation of:
 - Single Sign-On (SSO)
 - Inventory Services
 - vCenter Server
 - Web Client & vSphere Client

Module 6: VMware Infrastructure Upgrade (5.5 to 6.0)

- Upgrading vCenter Server from 5.5 to 6.0
- Upgrading ESXi from 5.5 to 6.0

Module 7: Patch Management

- Installation and configuration of VMware Update Manager
- Applying security patches using Update Manager
- Creating patch baselines
- Scanning and remediating hosts

Module 8: Configuring and Managing Virtual Storage

- Storage protocols and device names
- Configuring ESXi with iSCSI, NFS, and Fibre Channel storage
- Creating and managing vSphere datastores

Module 9: Creating Virtual Machines

- Introduction to virtual machines, VM hardware, and VM files
- Virtual Hard Disk types
- Deploying a single virtual machine

Module 10: Virtual Machine Management

- Deploying VMs using templates and cloning
- Modifying and managing virtual machines
- Creating and managing snapshots
- Performing vMotion and Storage vMotion migrations
- Requirements for vMotion and Storage vMotion

Module 11: High Availability (HA) and Fault Tolerance (FT)

- New vSphere HA architecture overview
- HA control policies
- Configuring EVC Mode in HA
- Configuring and managing a vSphere HA cluster
- Introduction to Fault Tolerance (FT)

Module 12: Scalability

- Configuring and managing VMware DRS clusters
- DPM (Distributed Power Management) configuration
- Enhanced vMotion Compatibility (EVC)
- Using HA and DRS together

Module 13: Access and Authentication Control

- Controlling user access, roles, and permissions
- Configuring and managing the ESXi firewall
- Configuring ESXi lockdown mode
- Integrating ESXi with Active Directory

Module 14: Troubleshooting

- Basic ESXi troubleshooting commands
- Reviewing log files (ESXi, vCenter Server, Update Manager)
- VMware Core Dump Collector
- VMware Log Collector

Module 15: P2V (Physical to Virtual)

- Physical-to-Virtual migration process and tools

Module 16: VMware Infrastructure Upgrade (6.0 to 6.5)

- Upgrading vCenter Server (6.0 to 6.5)
- Upgrading VMware Update Manager (6.0 to 6.5)
- Upgrading ESXi Server (6.0 to 6.5)
- VMFS upgrade process
- VM hardware version upgrade
- VMware Tools upgrade

Module 17: vCenter Server Appliance (VCSA) on Linux (SUSE)

- Installation and management of VCSA 6.5

Module 18: New Features in vSphere 6.5

- Overview of key new features and enhancements in vSphere 6.5

Thank you



Thank You for Going Through VMware Curriculum
We hope this guide has provided a clear and structured learning path to strengthen your skills in VMware.

✦ NEXT STEPS

- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

☎ Need Help or Guidance?

Feel free to contact our course support team:
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