

VMware vSphere 6.0 Ultimate Bootcamp

Modality: Self-Paced Learning

Duration: 7 Hours

About this course:

VMware vSphere debuted in 2009 as the successor to the company's flagship VMware Infrastructure solution, and it serves as a complete platform for implementing and managing virtual machine (VM) infrastructure on a large scale. Also referred to as a cloud operating system or virtualized data center platform, VMware vSphere enables IT departments to efficiently place application workloads on the most cost-effective compute resource available. This course covers everything you need to know about the VMware vSphere 6.0 Ultimate Bootcamp. Students will learn about virtualization, planning and installing ESXi, using tools to administer a VMware environment, vCenter Server 6.0 and licensing, configuring networking, configuring storage, VM creation, configuration, and snapshots, security and permissions, server and VM monitoring, advanced ESXi and vCenter server management, patching and upgrading ESXi, and disaster recovery and backup.

The average salary for VMware Administrator is **\$130,000** per year.

Course Objective:

After completing this course, students will have a working understanding of:

- About all of the new and exciting features of VMware vSphere® 6.0
- Foundational terms and concepts concerning virtualization
- How to install, configure & support ESXi 6.0, vCenter Server 6.0, vCenter™ 6.0 Platform Services Controller, VMware Certificate Authority and VMware Endpoint Certificate Services
- The use of new Content Libraries
- How to configure Virtual Networking including vNetwork Distributed Switches, vDS backup & restore, VLANs, PVLANS and how to support VMotion & iSCSI Multipathing, LACP
- P2V, V2V, V2P, and P2P methods and techniques
- Server Consolidation procedures and reasoning
- Tools to support a virtual infrastructure - VMware Flings, RVTools, Veeam, and more
- VMotion™, Cross-vCenter Server systems migration, Storage VMotion, Distributed Power Mgt (DPM), Update Manager, Power Mgmt, Virtual Volumes (VVol), Fault Tolerance, Clustering - DRS/HA, SDRS, vSphere App HA, Multi vCPU FT Virtual Machines, etc.
- Troubleshooting and Best Practices within a Virtual Enterprise including vRealize Ops Manager
- How to perform backups & replication in the ESXi environment - Data Protection (vDP) & 3rd party solutions, vSphere Replication
- How to use the Command Line Interface for supporting ESXi Servers - ESXi commands
- How to configure and optimize storage - FC, iSCSI, NFS, Multipathing, Thin Provisioning, Flash Read Cache and VSAN

Audience:

This course is intended for:

- System Administrators
- Engineers

Prerequisites:

- The VMware vSphere 6.0 Ultimate Bootcamp class is intended for IT Professionals with 1 or more years of server and infrastructure experience. Individuals should have experience on Microsoft Windows and/or Linux Servers.

Course Outline:

- Course Introduction
- Chapter 01 - Course Introduction and Methodology
- Chapter 02 - Virtualization Overview
- Chapter 03 - Planning and Installing ESXi
- Chapter 04 - Using Tools to Administer a VMware Environment
- Chapter 05 - vCenter Server 6.0 and Licensing
- Chapter 06 - Configuring Networking
- Chapter 07 - Configuring Storage
- Chapter 08 - VM Creation, Configuration, and Snapshots
- Chapter 09 - Security and Permissions
- Chapter 10 - Server and VM Monitoring
- Chapter 11 - Advanced ESXi and vCenter Server Management
- Chapter 12 - Patching and Upgrading ESXi
- Chapter 13 - Disaster Recovery and Backup
- Course Summary