

# VMware V13 Administration Training

## Course Content

## ❖ Module 1 : Introduction

- What is Virtualization?
- A Virtual Machine
- How Virtualization works?
- Virtualization using a Bare-Metal Hypervisor
- ESX Server Architecture

## ❖ Module 2 : Virtual Infrastructure Overview

- Discussion of virtualization and virtual infrastructure components

## ❖ **Module 3 : ESX Server Installation**

- Hardware Prerequisites
- Partitioning an x86
- After Installation Is Complete
- ESX Server Physical Console After Install
- VMware Infrastructure (VI) Client
- Single-Host Licensing
- Set-up of ESX Server
- LAB 0: Install ESX Server on Local Volume

## ❖ Module 4 : Networking

- Configuration of virtual switches-network connections and port groups
- Security Policy
- NIC Teaming Policy
- LAB-2.0: Create Virtual Switches
  - Lab-2.1: Adding and Configuring NIC Teaming for vSwitches
  - LAB-2.2: Adding & Configuring NIC Teaming for Services Consoles
  - LAB-2.3: Load-Balancing
- LAB-3.0:Design Networking
  - LAB-3.1:Adding & Configuring vSwitches Through VC
  - LAB-3.2: Adding & Configuring vSwitches Through SC
  - LAB-3.3: Detecting and Handling Network Failure

## ❖ Module 5: Storage

- Storage Management Technologies
- LAB-4.0: Iscsi Storage
  - LAB-4.1: Multipathing with Iscsi
- Lab-5.0: VMFS Datastore
- LAB-6.0: Extend a VMFS
- Multipathing with Fiber Channel
  - LAB-6.1: Managing Multiple Paths
  - LAB-6.2: Addressing and Access Control with NFS
- How NAS/NFS is used with ESX Server

## ❖ **Module 6: Virtual Center Installation**

- Set-up of VirtualCenter Components
- LAB-8.0: Install VirtualCenter
- LAB-9.0: Add Host to VirtualCenter Inventory

## ❖ **Module 7: VM Creation and Management**

- Use of Templates
- Manage using Vmware Converter Enterprise
- Manage using Vmware VirtualCenter and Web Access
- Use of Guided Consolidation

LAB-10.0: Create a Virtual Machine

LAB -11.0: Template Provisioning

LAB -12.0: Vmware Converter Enterprise

LAB -13.0: Create a Firewalled Virtual Machine Environment

LAB-14.0: Allow Virtual Machine Access Environment

LAB-15.0: Accessing Virtual Machines in VirtualCenter

## ❖ **Module 8: Virtual Infrastructure Access Control**

- Controlling administration rights
- Security Model Overview
- Defining Users and Groups
- Privileges and Roles
- VirtualCenter Security Model
- ESX Server Security Model
- Web Access

## ❖ **Module 9: Resource Management**

- vMotion migrations
- Set-up of resource pools and a VMware
- Distributed Resources Scheduler(DRS) cluster
- Setting VM priorities on CPU, memory and other resources
- LAB-16.0: Resource Pools on a Standalone Host
- LAB-17.0: Migrate Virtual Machines Using vMotion
- LAB-18.0: Create a DRS Cluster
- LAB-19.0: Resource Pools in a DRS Cluster

## ❖ **Module 10: Resource Monitoring**

- Workload assessment
- Monitoring using VMware VirtualCenter
- LAB-20.0: Monitoring Virtual Machine Performance
- LAB-21.0: Host-Based and VM-Based Performance Alarms

## ❖ **Module 11: Data and Availability Protection**

- Backup strategies
- Set-up of a VMware High Availability(HA) Cluster
- LAB-22.0: Using VMware HA

## ❖ **Module 12 : Planning VI Development**

- Guidelines and best practices for a basic deployment

**This course specially designed for VMware V13 Administration**  
**We Provide 100% Real-Time LAB Practical's with Job Assistance**

Total duration of the course: - 15 Working days

Duration of the course per day: - 3 Hours

Course fee: - 11500Rs (INR) \*\*\* service tax will be extra \*\*\*

### Terms & Conditions

1. Additional Administration Tasks will be covered on weekends only.
2. Online LAB Access will be provided 24/7 for 30day's as per additional payment.
3. The course content can be changed as per the technology without prior notice.

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