

COMET CERTIFIED VMWARE ADMINISTRATION COURSE BROCHURE

Overview

VMware vSphere 7.0 Administration: Provides the foundation necessary to effectively Deploy, Configure and Administrate VMware vSphere 7.0. Learners will receive hands-on, production environment oriented, scenario-based training on Installing, Configuring, Administrating and Troubleshooting VMware vSphere 7.0 for any Production environment with VMware Virtual Infrastructure.

Course Objective

- Understand the Need of Virtualization.
- Understand Virtualization technologies.
- Understand the types of Virtualization.
- Know the Products of VMware.
- Install and Configure VMware vSphere Hypervisor (ESXi) 7.0.
- Configure Management Network of ESXi.
- Create and Manage Virtual Machines in ESXi.
- Deep Dive on VM files.
- Installing Guest OS in VMs.
- Understand and Install VMware Tools.
- Understand and Manage VM Snapshot.
- Understand, Deploy and Configure vCenter Server Appliance.
- Configuring and Managing Virtual Networks in ESXi.
- Understanding Storage Concepts.
- Understand ESXi hosts using iSCSI, NFS, and Fibre Channel storage.
- Create and Manage VMFS and NFS datastores.
- Templates and cloning to deploy new Virtual Machines.
- Customize a new Virtual Machine using customization specification.
- Understand and Manage Virtual Machine Migration.
- Manage vSphere vMotion and vSphere Storage vMotion migrations
- Resource Management and Monitoring.
- Create and use alarms to report certain conditions or events.
- Understand functions and benefits of a vSphere DRS cluster.
- Configure and Manage a vSphere DRS cluster.
- Understand vSphere HA architecture.
- Configure and Manage a vSphere HA cluster.

Audience Profile

This course is for IT Professionals who need manage the Virtual infrastructure that span storage, network, and compute capabilities, with a deep understanding of each service across the full IT lifecycle.

Prerequisites

- Understanding of network configuration, including TCP/IP, Switch, Subnet and VLAN.
- Good Knowledge on Server OS and Services.
- Good Knowledge on Server hardware, Remote Management and RAID levels.



Introduction

- Introduction to Virtualization
- Why Virtualization
- What is Virtualization

Virtualization Components

- Types of Virtualization
- VMware Products

ESXi Installation

- Requirements to Install ESXi 7.0
- Installing ESXi 7.0
- Configure Management Interface
- Connect ESXi using vSphere Web Client

Create and Manage Virtual Machines

- Create New VMs
- Virtual Machine files
- Customise VM Configuration
- Mounting CD for VMs
- Installing Guest OS in VM
- Remove and Add VMs in Inventory

Virtual Machine Management

- Understand and Install VMware Tools
- Understand VM Snapshot
- Create and Manage VM Snapshot

Configuring and Managing Virtual Networks

- Create and manage vSwitches
- Manage Uplink adapters for vSwitches
- Create and Manage Portgroups and VLAN
- vSwitch security and load-balancing policies

Configuring and Managing Virtual Storage

- Introduce storage protocols and storage types
- iSCSI, NFS, and Fibre Channel storage
- Create and manage Datastores

vCenter Server

- Introduce the vCenter Server architecture
- Deploy and configure vCenter Server Appliance
- Use vSphere Web Client

VM Cloning and Templates

- Understand VM Cloning and Template
- Understand VM Customization Specification
- Clone and Deploy New VM
- Create VM Template
- Deploy new VM using Template

VM Migration

- Understand the types of Migration
- Considerations of Cold and Hot Migration
- Perform Cold Migration
- Perform Hot Migration(vMotion)

Resource Management and Monitoring

- Set reservations, limits, and shares
- Configure and manage resource pools
- Monitor resource usage
- Create alarms to report certain events

vSphere Cluster

- Understand vSphere Cluster
- Create and Manage vSphere Cluster

vSphere Distributed Resource Scheduler (DRS)

- Understand vSphere DRS
- DRS Automation and Affinity Rules
- Configure and Manage vSphere DRS

vSphere High Availability (HA)

- Understand vSphere HA architecture
- Understand vSphere HA heartbeat
- Configure and Manage vSphere HA

vSphere Update Manager

- Use vSphere Update Manager
- Patching of ESXi and Virtual Machines



Our Students Testimonials

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