

VMware Course Details

By [Besant Technologies](#)

Course Name	VMware
Category	Oracle Fusion Middleware
Venue	Besant Technologies
Address	No.24, Nagendra Nagar, Velachery Main Road, Velachery, Chennai – 600 042 Landmark – Opposite to Phoenix Market City
Official URL	VMware Training
Demo Classes	At Your Convenience
Training Methodology	30% Theory & 70% Practical
Course Duration	35-40 Hours
Class Availability	Weekdays & Weekends
For Demo Class	Call - +91-996 252 8293 / 94 Email ID – besanttech@gmail.com

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VMware Training Outline

Installing VMware vSphere Graphical User Interfaces

- Introduction on VMware Vsphere
- Features of VMware Vsphere
- Comparison between VMware Vsphere 5.1 and Vsphere 4.1
- Install the vSphere Client

Configuring VMware ESXi

- Task 1: Connect to an ESXi host with the vSphere Client
- Task 2: View host hardware configuration
- Task 3: Configure DNS and routing information for an ESXi host
- Task 4: Configure an ESXi host as an NTP client
- Task 5: Configure an ESXi host to use directory services

Working with Virtual Machines

- Task 1: Create a virtual machine
- Task 2: Install a guest operating system in a virtual machine
- Task 3: Identify a virtual machine's disk format and usage statistics
- Task 4: Install VMware Tools on a virtual machine installed with a Windows operating system
- Task 5: Prepare your virtual machine for upcoming labs

Configuring the vCenter Server Appliance

- Task 1: Configure the VCVA for first use
- Task 2: Install vSphere license keys
- Task 3: Create a vCenter Server inventory datacenter object
- Task 4: Create vCenter Server inventory folder objects
- Task 5: Add your ESXi host to the vCenter Server inventory
- Task 6: Configure the vCenter server appliance to use directory services
- Task 7: Use the vSphere Web Client to log in to the vCenter Server Appliance

Standard Virtual Switches

- Task 1: View the current standard virtual switch configuration
- Task 2: Create a standard virtual switch with a virtual machine port group
- Task 3: Attach your virtual machine to a virtual switch port group

Accessing iSCSI Storage

- Task 1: Add a VMkernel port group to a standard virtual switch
- Task 2: Configure the iSCSI software adapter

Accessing IP Storage

- Task 1: Configure access to NFS datastores
- Task 2: View iSCSI and NFS storage information

Managing VMware vSphere VMFS

- Task 1: Review your shared storage configuration
- Task 2: Change the name of a VMFS datastore
- Task 3: Create a VMFS datastore
- Task 4: Expand a VMFS datastore to consume unused space on a LUN
- Task 5: Remove a VMFS datastore
- Task 6: Extend a VMFS datastore

Using Templates and Clones

- Task 1: Copy Sysprep files to the vCenter Server appliance
- Task 2: Create a template
- Task 3: Create customization specifications
- Task 4: Deploy a virtual machine from a template
- Task 5: Clone a virtual machine that is powered on

Modifying a Virtual Machine

- Task 1: Increase the size of a VMDK file
- Task 2: Adjust memory allocation on a virtual machine
- Task 4: Add a raw LUN to a virtual machine and verify that the guest operating system can see it
- Task 3: Rename a virtual machine in the vCenter Server inventory
- Task 5: Expand a thin-provisioned virtual disk

Migrating Virtual Machines

- Task 1: Configure vCenter Server to manage multiple ESXi hosts
- Task 2: Migrate virtual machine files with Storage vMotion
- Task 3: Create a virtual switch and a VMkernel port group for vMotion migration
- Task 4: Verify that your ESXi host meets vMotion requirements
- Task 5: Verify that your virtual machines meet vMotion requirements
- Task 6: Perform a vMotion migration of a virtual machine on a shared datastore
- Task 7: Prepare for the next lab

Managing Virtual Machines

- Task 1: Unregister a virtual machine in the vCenter Server inventory
- Task 2: Register a virtual machine in the vCenter Server inventory
- Task 3: Unregister and delete virtual machines from disk
- Task 4: Take snapshots of a virtual machine
- Task 5: Revert to a snapshot
- Task 6: Delete an individual snapshot
- Task 7: Use the Delete All function in Snapshot Manager

Managing vApps

- Task 1: Create a vApp
- Task 2: Power on a vApp
- Task 3: Remove a vApp

Access Control

- Task 1: Try to log in directly to the ESXi host
- Task 2: Grant nonadministrator access to a user
- Task 3: Explore the ESX Admins AD group

User Permissions

- Task 1: Create a custom role in vCenter Server
- Task 2: Assign permissions on vCenter Server inventory objects
- Task 3: Verify permission usability

Resource Pools

- Task 1: Create CPU contention
- Task 2: Create a resource pool named Fin-Test
- Task 3: Create a Resource Pool named Fin-Prod
- Task 4: Verify resource pool functionality

Monitoring Virtual Machine Performance

- Task 1: Create CPU activity
- Task 2: Use vCenter Server to monitor CPU utilization
- Task 3: Undo changes made to your virtual machines

Using Alarms

- Task 1: Create a virtual machine alarm that monitors for a condition
- Task 2: Create a Virtual Machine Alarm that monitors for an event
- Task 3: Trigger virtual machine alarms and acknowledge them
- Task 4: Disable virtual machine alarms

Using vSphere High Availability

- Task 1: Create a cluster enabled for vSphere HA
- Task 2: Add your ESXi host to a cluster
- Task 3: Test vSphere HA functionality
- Task 4: Determine vSphere HA cluster resource usage
- Task 5: Manage vSphere HA slot size
- Task 6: Configure a vSphere HA cluster with strict admission control
- Task 7: Prepare for upcoming labs

Configuring VMware vSphere Fault Tolerance

- Task 1: Prepare the virtual machine
- Task 2: Enable Fault Tolerance logging
- Task 3: Activate Fault Tolerance

- Task 4: Test Fault Tolerance
- Task 5: Disable Fault Tolerance

vSphere Distributed Resource Scheduler

- Task 1: Create load imbalance
- Task 2: Create a DRS cluster
- Task 3: Verify proper DRS cluster functionality
- Task 4: Create, test, and disable an affinity rule
- Task 5: Create, test, and disable an anti-affinity rule
- Task 6: Create, test, and disable a virtual machine to host affinity rule

VMware vSphere Update Manager

- Task 1: Install Update Manager
- Task 2: Install the Update Manager plug-in into the vSphere Client
- Task 3: Modify cluster settings
- Task 4: Configure Update Manager
- Task 5: Create a patch baseline
- Task 6: Attach a baseline and scan for updates
- Task 7: Stage patches onto ESXi hosts
- Task 8: Remediate the ESXi hosts

Installing VMware vCenter Server

- Task 1: Install vCenter Server