Systems & Network Training

VMware: Install, Configure, Manage (v8)

A 5 day Hands on training course

Save on expenses. This course is also available on your premises.

Description

This five-day VMware course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere 8, which includes VMware ESXi 8 and VMware vCenter 8. This course prepares you to administer a vSphere infrastructure for an organization of any size. This course is the foundation for most VMware technologies in the software-defined data center.

Key outcomes

By the end of the course delegates will be able to:

- Install and configure ESXi hosts.
- Deploy and configure vCenter.
- Create virtual networks using standard and distributed switches.
- Configure VMs, templates, clones, and snapshots.
- Manage virtual machine resource allocation
- Migrate virtual machines with vSphere vMotion and vSphere Storage vMotion.

Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.

Details

Who will benefit?
Systems administrators and engineers.

Prerequisites
Introduction to data communications & networking.
Windows/Linux Administration

Duration: 5 days

Overall rating: ★★★★★

Generic training	Small class sizes	Hands On training	Our courseware	Customise your course
Generic training complements product specific courses covering the complete picture of all relevant devices including the protocols	We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.	The majority of our courses use hands on sessions to reinforce the theory.	We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.	Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.
"*Friendly environment with expert teaching that teaches the why before the how.*" G.C. Fasthosts	*"Excellent course. The small class size was a great benefit..."* M.B. IBM	*"Not many courses have practice added to it. Normally just the theoretical stuff is covered."* J.W. Vodafone	*"Comprehensive materials that made the course easy to follow and will be used as a reference point."* V.B. Rockwell Collins	*"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."* S.R. Qinetiq

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Course content

Course Introduction
Introductions and course logistics. Course objectives

vSphere and Virtualization Overview
Explain basic virtualization concepts, Describe how vSphere fits in the software-defined data center and the cloud infrastructure, Recognize the user interfaces for accessing vSphere, Explain how vSphere interacts with CPUs, memory, networks, storage, and GPUs

Installing and Configuring ESXi
Install an ESXi host, Recognize ESXi user account best practices, Configure the ESXi host settings using the DCUI and VMware Host Client

Deploying and Configuring vCenter
Recognize ESXi hosts communication with vCenter, Deploy vCenter Server Appliance, Configure vCenter settings, Use the vSphere Client to add and manage license keys, Create and organize vCenter inventory objects, Recognize the rules for applying vCenter permissions, View vCenter logs and events

Configuring vSphere Networking
Configure and view standard switch configurations, Configure and view distributed switch configurations, Recognize the difference between standard switches and distributed switches, Explain how to set networking policies on standard and distributed switches

Configuring vSphere Storage
Recognize vSphere storage technologies, Identify types of vSphere datastores, Describe Fibre Channel components and addressing, Describe iSCSI components and addressing, Configure iSCSI storage on ESXi, Create and manage VMFS datastores, Configure and manage NFS datastores

Deploying Virtual Machines
Create and provision VMs, Explain the importance of VMware Tools, Identify the files that make up a VM Recognize the components of a VM, Navigate the vSphere, Client and examine VM settings and options, Modify VMs by dynamically increasing resources, Create VM templates and deploy VMs from them, Clone VMs, Create customization specifications for guest operating systems, Create local, published, and subscribed content libraries, Deploy VMs from content libraries, Manage multiple versions of VM templates in content libraries

Managing Virtual Machines
Recognize the types of VM migrations that you can perform within a vCenter instance and across vCenter instances, Migrate VMs using vSphere vMotion, Describe the role of Enhanced vMotion Compatibility in migrations, Migrate VMs using vSphere Storage vMotion, Take a snapshot of a VM, Manage, consolidate, and delete snapshots, Describe CPU and memory concepts in relation to a virtualized environment, Describe how VMs compete for resources Define CPU and memory shares, reservations, and limits

Deploying and Configuring vSphere Clusters
Create a vSphere cluster enabled for vSphere DRS and vSphere HA, View information about a vSphere cluster Explain how vSphere DRS determines VM placement on hosts in the cluster, Recognize use cases for vSphere DRS settings, Monitor a vSphere DRS cluster
Describe how vSphere HA responds to various types of failures, Identify options for configuring network redundancy in a vSphere HA cluster, Recognize vSphere HA design considerations, Recognize the use cases for various vSphere HA settings, Configure a vSphere HA cluster, Recognize when to use vSphere Fault Tolerance

Managing the vSphere Lifecycle
Enable vSphere Lifecycle Manager in a vSphere cluster, Describe features of the vCenter Update Planner, Run vCenter upgrade prechecks and interoperability reports, Recognize features of vSphere Lifecycle Manager, Distinguish between managing hosts using baselines and managing hosts using images, Describe how to update hosts using baselines, Describe ESXi images, Validate ESXi host compliance against a cluster image and update ESXi hosts, Update ESXi hosts using vSphere Lifecycle Manager, Describe vSphere Lifecycle Manager automatic recommendations, Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware