vmware®

Course Introduction

Module 1

Importance

This course will equip administrators with the knowledge, skills, and abilities to build and run a VMware® vSphere™ environment. This course focuses on the installation and configuration of VMware ESX™/ESXi hosts and vCenter™ Server. It also focuses on the management of ESX/ESXi hosts and virtual machines with vCenter Server.

This course will help to prepare IT professionals to achieve the status of VMware Certified Professional (VCP) on vSphere 4.

vmware

Module Objectives

> Understand the course goals

> Understand the course objectives

> Get familiar with the course outline

vmware

Goals of This Course

> To prepare you to install, manage, and configure your vSphere environment

> To help prepare you to achieve the status of VMware Certified Professional (VCP) on vSphere 4

What Is VMware vSphere?

An infrastructure virtualization suite that:

> Provides virtualization, management, resource optimization, application availability, and operational automation capabilities

> Aggregates physical hardware resources and provides virtual resources to the datacenter

Objectives for the Learner

> Install and configure ESX and ESXi

> Install and configure vCenter Server

> Configure standard and distributed networking

> Configure storage (Fibre Channel, iSCSI, NAS/NFS, VMFS)

> Deploy and manage virtual machines using templates

> Use VMware vCenter Converter and Guided Consolidation

> Manage user permissions in vCenter Server

> Migrate virtual machines using VMware VMotion™ and Storage VMotion

> Monitor resource usage using vCenter Server

> Configure a VMware Distributed Resource Scheduler (DRS) and VMware High Availability cluster

> Back up and recover a virtual machine using VMware Data Recovery

> Configure VMware vCenter Update Manager

Course Outline

Module 1: Course Introduction

Module 2: Introduction to VMware Virtualization

Module 3: Configuring VMware ESX and ESXi

Module 4: Installing and Using VMware vCenter Server

Module 5: Networking

Module 6: Storage

Module 7: Virtual Machines

Module 8: Access Control

Module 9: Resource Monitoring

Module 10: Scalability

Module 11: High Availability and Data Protection

Module 12: Configuration Management

Module 13: Installing VMware ESX and ESXi

VCP on vSphere 4 Certification

VMware Certified Professional (VCP) program

> For technical individuals who want to demonstrate their vSphere expertise and advance their career

Three steps to becoming a VCP

> Participate in a VMware-authorized course.

> Gain hands-on experience with VMware vSphere.

> Enroll and pass the certification exam.

For more information on how to become a VCP on vSphere 4, or on how to upgrade your existing certification, see

> http://mylearn.vmware.com/portals/certification

VMware Online Resources
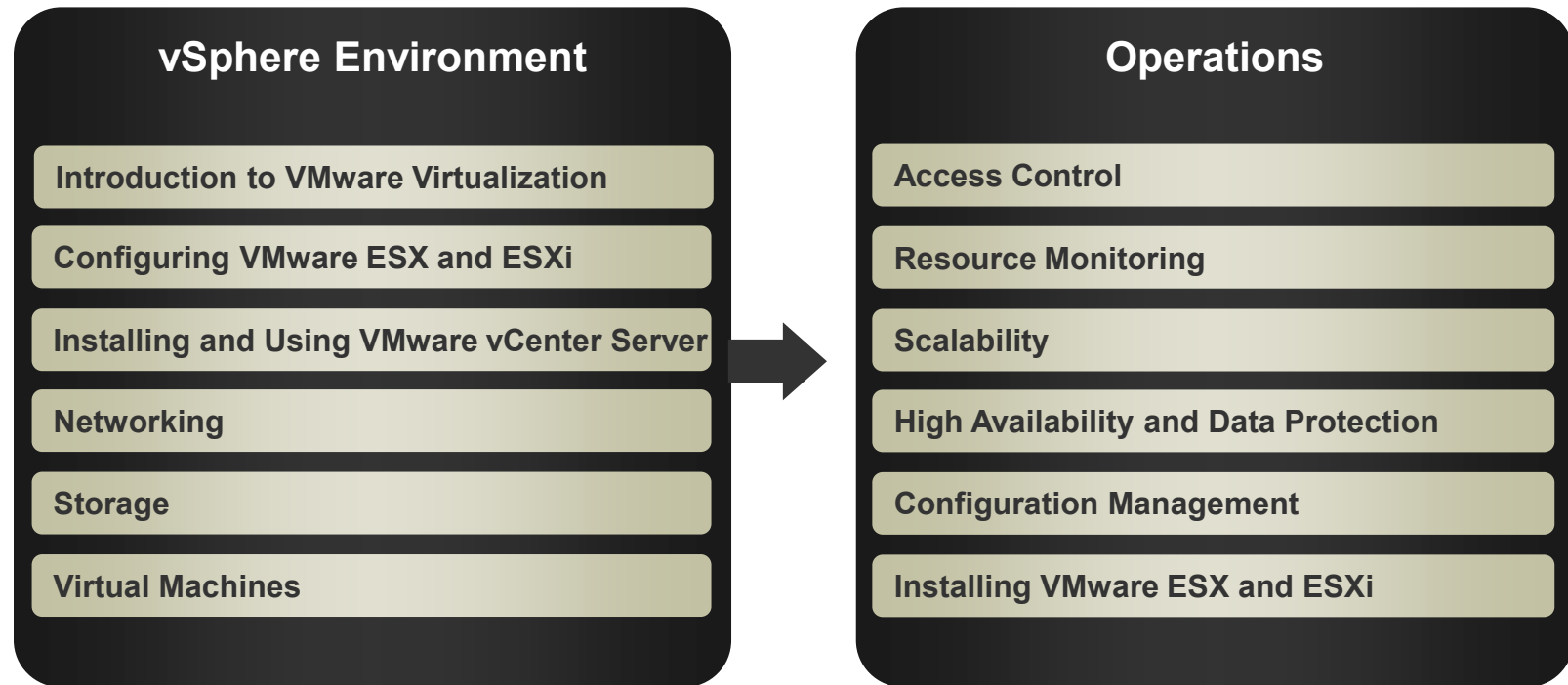
VMware Communities: http://communities.vmware.com

> Start a discussion.

> Access the knowledge base.

> Access documentation, technical papers, and compatibility guides.

> Access communities.

> Access user groups.

VMware Support: http://www.vmware.com/support

VMware Education: http://www.vmware.com/education

> Access course catalog and worldwide course schedule.

Course Map

vSphere Environment

- Introduction to VMware Virtualization
- Configuring VMware ESX and ESXi
- Installing and Using VMware vCenter Server
- Networking
- Storage
- Virtual Machines

Operations

- Access Control
- Resource Monitoring
- Scalability
- High Availability and Data Protection
- Configuration Management
- Installing VMware ESX and ESXi

Key Points

> This course teaches you about such vSphere components as ESX/ESXi, vCenter Server, VMware HA, DRS, Update Manager, and Data Recovery.

> This course prepares you to install, manage, and configure your vSphere environment and helps you to become a VCP.