



VMware vSphere -What's New

INTRODUCTION

V1.0

This exciting, hands-on, lab intensive course covers new items added to VMware's newest version of the infrastructure product suite, vSphere. Students will have a full day covering the new features of ESX 4 with vCenter 4. This one day packed course has students build ESX, build vCenter (looking closely at the new installs), build VM's and new VM features, as well as learn more advanced features with clustering and command line options. Our "What's New vSphere" course is intended for students with significant production experience in the Infrastructure 3 / vSphere product suite. It is our intention to take your existing knowledge base and expand upon that.

CLASSROOM SETUP

Each student will have an ESX Server and a Windows Server 2003 or XP workstation. Our classroom lab will share a cluster of ESX Servers, a variety of different Storage solutions (SAN, NAS, ISCSI, local, etc.) as needed, a vCenter Server, a variety of 3rd party tools and access to many pre-configured VM's (Microsoft, Novell, Red Hat, Ubuntu ...etc).

PRE-REQUISITES

- ESX Server familiarity
- VirtualCenter/vCenter usage
- VirtualCenter/vCenter administration
- Excellent familiarity with Windows
- Some familiarity with Linux

MAJOR AREAS COVERED

ESX Server 4**vCenter 4****VM Hardware v7****New licensing mode****vSphere Command line interface****vSphere Host update utility****VMXNET – generation 3****vCenter install requirements****Typical VM Build****Distributed Virtual Switch****Host Profiles****Resource statistics****Storage VMotion****Fault tolerance – VM shadow cloning****VMware VSafe****VMware VShield Zones****VMware Paravirtualized SCSI****ESX 4 HCL****Service Console Partitioning – esxconsole.vmdk****Custom VM Build****Hot add Hardware****Resource Views**



COURSE OUTLINE

This course covers items from the following VMware courses.

vSphere - What's New

1) What's New - an in-depth look at vSphere

- a) Capability improvements
- b) Virtual Hardware improvements
- c) Storage improvements
- d) Network enhancements
- e) Simplified management

2) Installation of ESX 4.0

- a) ESX HCL
- b) Service Console Partitioning
- c) ESX install

3) Installing of vCenter 4

- a) Pre-installation
- b) Installation
- c) Post-installation
- d) Explore new interface and options

4) Configuration of Virtual Machines

- a) Typical VM Build
 - i) Thin provisioning
 - ii) Shadow cloning
- b) Custom VM Build
 - i) V4 VM Hardware
 - ii) V7 VM Hardware
- c) Explore new interface and options