

VMware vSphere: Automation with vSphere PowerCLI [V4x]

Duration: 2 Days

Course Description

This hands-on VMware® training course introduces the use of VMware vSphere™ PowerCLI to automate VMware vSphere 4. You will learn to automate tasks that can reduce your IT costs while improving efficiency, availability, flexibility, and manageability.

Certification

This course is recommended for VMware Certified Professional on vSphere 4 - Datacenter Administration Certification (VCAP4-DCA)

Audience

Technical persons responsible for managing ESX, VMware ESXi, and VMware vCenter™ Server, including IT managers, system architects, and system administrators

Prerequisites

System administration experience on Microsoft Windows or Linux

Scripting experience in one of the following: VBScript, Perl, UNIX shell scripts, Python, or other languages with variables and control structures

VMware vSphere: Install, Configure, Manage [V4.1], VMware vSphere: Install, Configure, Manage [V4], or VMware vSphere: Fast Track [V4]

VMware vSphere: Install, Configure, Manage [V4.1]

Topics

1. Introduction to vSphere PowerCLI

2. Main vSphere PowerCLI Object

- Main commandlets in vSphere PowerCLI
- Connect to a vSphere infrastructure
- Get help for commandlets

3. Automating ESX Host Configuration

- Automate configuration of virtual switches on ESX hosts
- Automate configuration of datastores on ESX hosts

4. Virtual Machine Provisioning, Configuration, and Protection

- Automate creation of virtual machines
- Change virtual machine settings programmatically

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- Run vSphere PowerCLI scripts in virtual machines
- Automate virtual machine protection

5. Automating Cluster Operations

- Automate virtual machine storage migration
- Automate VMware vMotion™
- Create a VMware Distributed Resource Scheduler/VMware High Availability cluster
- Automate cluster configuration
- Automate resource pool creation and configuration