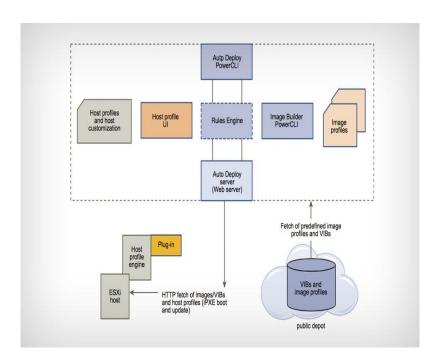
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VMware vSphere Troubleshooting









VMware vSphere: Troubleshooting [V6.7]

Course Overview:

This hands-on training provides you with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere 6.x environment. This workshop increases your skill and competence in using the command-line interface, VMware vSphere Client, VMware vRealize Log Insight and other tools to analyze and solve problems.

Course Outline:

1. Course Introduction

- Introductions and course logistics
- Course objectives

2. Introduction to Troubleshooting

- Identify the effects of a system problem
- Define the scope of troubleshooting
- Use a structured approach
- Discuss the principles of troubleshooting
- Follow a logical troubleshooting procedure
- Examine examples of troubleshooting

3. Troubleshooting Tools

- Use command-line tools to identify and troubleshoot problems
- Use vSphere CLI
- > Find and interpret important log files
- Use vRealize Log Insight for log aggregation, efficient log search, and problem analysis

4. Networking

- Identify the symptoms of network-related problems
- Analyze and resolve standard switch and distributed switch problems
- Analyze virtual machine connectivity problems and fix them
- Examine common management network connectivity problems and restore configurations
- Identify and prevent potential problems

5. Storage

- Troubleshoot storage (iSCSI, NFS, VMware vSphere VMFS, VMware vSAN, and VMware vSphere Virtual Volumes) connectivity problems
- Analyze storage-related logs
- Analyze hardware malfunction and software misconfiguration scenarios
- ➤ Identify multipathing-related problems, including permanent device loss (PDL) and all paths down (APD)
- Analyze possible causes, recover from faulty conditions, and restore storage visibility

6. vSphere Clusters

- Identify and recover from problems related to vSphere HA
- Analyze and troubleshoot various types of vSphere vMotion problems related to virtual machine migrations
- Discuss and recover from vSphere DRS problems to achieve proper function and balanced resource use
- Examine vSphere cluster failure scenarios and possible solutions

7. Virtual Machines

- Analyze and resolve common virtual machine snapshot problems
- ldentify possible causes and resolve virtual machine power-on problems
- Troubleshoot virtual machine connection state problems
- ➤ Resolve problems seen during VMware Tools™ installations
- Examine failure scenarios and provide solutions

8. vCenter Server and ESXi

- Describe the vCenter Server and VMware Platform Services Controller™ architecture in vSphere 6.x
- ldentify and resolve authentication problems
- Troubleshoot VM ware Certificate Authority and certificate problems
- Analyze and fix problems with vCenter Server services
- Analyze and fix vCenter Server database problems
- Identify VMware vCenter Server® High Availability problems
- Examine ESXi host and vCenter Server failure scenarios and resolve the problems

Prerequisites:

VMware vSphere: Install, Configure, Manage [V6.7]

- > Equivalent knowledge and administration experience with ESXi and vCenter Server
- ➤ Basic knowledge on Networking & Storage
- Who Should Attend:
- > System Administrators
- > System Integrators
- Number of Hours: 40hrs
- **4** Certification:

VMware Certified Professional 6.7 – Data Centre Virtualization (VCP6.7-DCV)

- **Key Features:**
- One to One Training
- ➤ Online Training
- > Fastrack & Normal Track
- > Resume Modification
- Mock Interviews
- Video Tutorials
- Materials
- Real Time Projects
- ➤ Virtual Live Experience
- Preparing for Certification