

همراه با حمایت فنی رایگان از طریق ایمیل
همراه با اعطاء مدرک معتبر



VMware Edition 2015

مالتی مدیای VCP-510 VMware Certified Professional Volume-2 به زبان فارسی (۱ DVD – ۲۱ ساعت)

Volume-2 شامل: ✓

۳ بخش آموزشی با بیش از ۱۲۰ درس به زبان انگلیسی و تشریح فارسی ✓

۱۰۲ لابراتوار کاربردی و تشریح سناریوهای امتحان VCP-510 ✓

Utilities شامل: ✓

امتحان بین المللی , VMware 5.5, 6.0 beta Documentation , EBooks ✓

لابراتوار کاربردی vSphere 5.5 , شبیه ساز VMware Workstation 10 ✓

System Requirements

- Windows XP with SP 2
- 256 MB RAM
- CD-ROM or DVD
- 1024 x 768 High Resolution Video Card & Monitor

VCP-510 Volume-2

Chapter-5 Establishing and Maintaining Service Levels I

5.1 Creating and Configuring VMware Clusters I

- Describing DRS Virtual Machine Entitlement
- Creating/Deleting a DRS/HA Cluster
- Adding/Removing ESXi Hosts from a DRS/HA Cluster
- Adding or Removing Virtual Machines from a DRS/HA Cluster

5.2 Creating and Configuring VMware Clusters II

- Configuring Storage DRS
- Configuring Enhanced vMotion Compatibility
- Monitoring a DRS/HA Cluster

5.3 Creating and Configuring VMware Clusters III

- Configuring Migration Thresholds for DRS and Virtual Machines
- Configuring Automation Levels for DRS and Virtual Machines
- Creating VM-Host and VM-VM Affinity Rules
- Enabling/Disabling Host Monitoring
- Enabling/Configuring/Disabling Virtual Machine and Application Monitoring
 - Enabling/Configuring/Disabling Virtual Machine Monitoring
 - Enabling/Configuring/Disabling Application Monitoring

5.4 Creating and Configuring VMware Clusters IV

- Configuring Admission Control for HA and Virtual Machines
 - Admission Control
 - Admission Control Policy
- Determining Appropriate Failover Methodology and Required Resources for an HA Implementation
 - Host Failures the Cluster Tolerates
 - Percentage of Cluster Resources as Failover Spare Capacity
 - Specify Failover Hosts

5.5 Planning and Implementing VMware Fault Tolerance

- Identifying VMware Fault Tolerance Requirements
- Configuring VMware Fault Tolerance Networking
- Enabling/Disabling VMware Fault Tolerance on a Virtual Machine
- Testing an FT Configuration
- Determining Use Case for Enabling VMware Fault Tolerance on a Virtual Machine

5.6 Creating and Administering Resource Pools

- Describing the Resource Pool Hierarchy
- Defining the Expandable Reservation Parameter
- Creating/Removing a Resource Pool
- Configuring Resource Pool Attributes
- Adding/Removing Virtual Machines from a Resource Pool
- Determining Resource Pool Requirements for a Given vSphere Implementation
- Evaluating Appropriate Shares, Reservations, and Limits for Resource Pool Based on Virtual Machine Workloads
- Cloning a vApp

5.7 Migrating Virtual Machines

- Identifying ESXi Host and Virtual Machine Requirements for vMotion and Storage vMotion
 - ESXi and VM Requirements for vMotion
 - ESXi and VM Requirements for Storage vMotion
- Identifying Enhanced vMotion Compatibility CPU Requirements
- Identifying Snapshot Requirements for vMotion/Storage vMotion Migration
- Migrating Virtual Machines Using vMotion/Storage vMotion
 - Migrating a VM
 - Using vMotion
 - Migrating a VM's Files Using Storage vMotion
- Configuring Virtual Machine Swap File Location
- Migrating a Powered-Off or Suspended Virtual Machine
- Utilizing Storage vMotion Techniques

5.8 Backing Up and Restoring Virtual Machines

- Identifying Snapshot Requirements
- Creating/Deleting/Consolidating Virtual Machine Snapshots
- Installing and Configuring VMware Data Recovery
- Creating a Backup Job with VMware Data Recovery
- Performing a Test and Live Full/File-Level Restore with VMware Data Recovery
- Determining Appropriate Backup Solution for a Given vSphere Implementation

5.9 Patching and Updating ESXi and Virtual Machines

- Identifying Patching Requirements for ESXi Hosts and Virtual Machine Hardware/Tools
- Creating/Editing/Removing a Host Profile from an ESXi Host
- Attach/Apply a Host Profile to an ESXi Host or Cluster
- Performing Compliance Scanning and Remediation of an ESXi Host Using Host Profiles
- Installing and Configuring vCenter Update Manager
- Configuring Patch Download Options
- Creating/Editing/Deleting an Update Manager Baseline
- Attaching an Update Manager Baseline to an ESXi Host or Cluster

- Scanning and Remediating ESXi Hosts and Virtual Machine Hardware/Tools Using Update Manager

Chapter 6 Performing Basic Troubleshooting

6.1 Performing Basic Troubleshooting for ESXi Hosts

- Identifying General ESXi Host Troubleshooting Guidelines
 - Learn How to Access Support Mode
 - Know How to Retrieve Logs
- Troubleshooting Common Installation Issues
 - Troubleshooting Boot Order
 - Troubleshooting License Assignment
 - Troubleshooting Plug-Ins
- Monitoring ESXi System Health
- Exporting Diagnostic Information

6.2 Performing Basic vSphere Network Troubleshooting

- Verifying Network Configuration
- Verifying a Given Virtual Machine Is Configured with the Correct Network Resources
- Troubleshooting Virtual Switch and Port Group Configuration Issues
- Troubleshooting Physical Network Adapter Configuration Issues
- Identifying the Root Cause of a Network Issue Based on Troubleshooting Information

6.3 Performing Basic vSphere Storage Troubleshooting

- Verifying Storage Configuration
- Troubleshooting Storage Contention Issues
- Troubleshooting Storage Over-Commitment Issues
 - *Excessive Reservations Cause Slow Host Performance*
 - *Path Thrashing Causes Slow Performance*
- Troubleshooting iSCSI Software Initiator Configuration Issues
- Troubleshooting Storage Reports and Storage Maps
 - *Storage Reports*
 - *Storage Maps*
- Identifying the Root Cause of a Storage Issue Based on Troubleshooting Information

6.4 Performing Basic Troubleshooting for HA/DRS Clusters and vMotion/Storage vMotion

- Identifying HA/DRS and vMotion Requirements
- Verifying vMotion/Storage vMotion Configuration
 - *Verifying vMotion Configuration*
- Verifying HA Network Configuration
- Verifying HA/DRS Cluster Configuration
- Troubleshooting HA Capacity Issues
- Troubleshooting HA Redundancy Issues
- Interpreting the DRS Resource Distributing Graph and Target/Current Host Load

Deviation

- Troubleshooting DRS Load Imbalance Issues
- Troubleshooting vMotion/Storage vMotion Migration Issues
- Interpreting vMotion Resource Maps
- Identifying the Root Cause for a DRS/HA Cluster or Migration Issue Based on Troubleshooting Information

Chapter 7 Monitoring vSphere Implementation and Managing vCenter Alarms

7.1 Monitoring ESXi, vCenter Server, and Virtual Machines I

- Describing How Tasks and Events are Viewed in vCenter Server
 - *Viewing by Object Selected in Console Pane*
 - *Showing Only Object Entries*
 - *Filtering by Keyword*
- Identifying Critical Performance Metrics
- Explaining Common Memory Metrics
- Explaining Common CPU Metrics
- Explaining Common Network Metrics
- Explaining Common Storage Metrics
- Comparing and Contrasting Overview and Advanced Charts

7.2 Monitoring ESXi, vCenter Server, and Virtual Machines II

- Configuring SNMP for vCenter Server
- Configuring Active Directory and SMTP Settings for vCenter Server
 - *Configuring Active Directory Settings for vCenter*
 - *Configuring SMTP Settings for a vCenter Server*
- Configuring vCenter Server Logging Options
- Creating a Log Bundle
- Creating/Editing/Deleting a Scheduled Task
- Configuring/Viewing/Printing/Exporting Resource Maps

7.3 Monitoring ESXi, vCenter Server, and Virtual Machines III

- Starting/Stopping/Verifying vCenter Service Status
- Starting/Stopping/Verifying ESXi Host Agent Status
- Configuring vCenter Server Timeout Settings
- Monitoring/Administering vCenter Server Connections
- Creating an Advanced Chart
- Determining Host Performance Using Resxtp and Guest Perfmon
 - *Determining Host Performance Using Resxtp*
 - *Determining Host Performance Using Guest Perfmon*
- Given Performance Data, Identifying the Affected vSphere Resource

7.4 Creating and Administering vCenter Server Alarms

- Listing vCenter Default Utilization Alarms
- Listing vCenter Default Connectivity Alarms
- Listing Possible Actions for Utilization and Connectivity Alarms
- Creating a vCenter Utilization Alarm
- Creating a vCenter Connectivity Alarm
- Configuring Alarm Triggers
- Configuring Alarm Actions
- For a Given Alarm, Identifying the Affected Resource in a vSphere Implementation

VCP-510 Scenario Labs

1. High Availability (HA) Labs

- Create a Cluster and Add ESXi Hosts to the Cluster
- Enable HA on a Cluster
- Understanding and Configuring Host Failures Based Admission Control Part 1
- Understanding and Configuring Host Failures Based Admission Control Part 2
- Understanding and Configuring Spare Resource Percentage Admission Control
- Understanding and Configuring Failover Hosts Admission Control
- Configuring HA Options for Individual VMs
- Configuring VM Monitoring
- Understanding and Configuring Datastore Heartbeating
- Seeing a Host Failure

2. Distributed Resource Scheduler (DRS) Labs

- What is DRS and Enabling DRS on a Cluster
- Configuring DRS Automation Level and Migration Threshold
- Configuring DRS Automation Level for a Single VM
- Creating DRS Groups
- Creating DRS Rules
- Viewing and Applying DRS Recommendations
- Running DRS Manually
- DRS Initial Placement
- Viewing the Resource Distribution Chart, DRS Faults, and DRS History
- Configuring Cluster EVC Mode

3. Storage DRS Labs

- What is Storage DRS?
- Creating a Datastore Cluster
- Turning Off SDRS or Changing a Datastore Cluster Automation Level
- Seeing Initial Placement of a VM

- **Configuring SDRS Runtime Rules**
- **Configuring SDRS Scheduling**
- **Configuring SDRS Affinity Rules**
- **Adding Storage to a Datastore Cluster**
- **Viewing Storage DRS Recommendations**
- **Applying Storage DRS Recommendations**
- **Overriding Storage DRS Recommendations**
- **Entering Datastore Maintenance Mode**

4. Fault Tolerance (FT) Labs

- **What is Fault Tolerance and Fault Tolerance Requirements**
- **Create a vmkernel Port for Fault Tolerance**
- **Enable Jumbo Frames on a Cisco Switch**
- **Enable Fault Tolerance on a VM**
- **View a Fault Tolerant VM**
- **See a Fault Tolerant Failover**
- **Disable or Remove Fault Tolerance on a VM**

5. Resource Pools Labs

- **Creating and Configuring a Resource Pool**
- **Understanding Resource Pool Shares**
- **Understanding Resource Pool Reservations**
- **Understanding Resource Pool Limits**

6. Basic vMotion and Storage vMotion Labs

- **What is vMotion and Migrating a VM with vMotion**
- **What is Storage vMotion and Migrating a VM with Storage vMotion**

7. Snapshots Labs

- **Creating Multiple Snapshots**
- **Reverting to Snapshots from a Snapshot Tree**
- **Deleting Snapshots from a Snapshot Tree**
- **Snapshot Files**
- **Consolidate a Snapshot**
- **Storage DRS and Snapshots**

8. Backing Up and Restoring VMs with VMware Data Recovery Labs

- **What is VMware Data Recovery?**
- **Installing the Data Recovery Plug-in**
- **Installing the Data Recovery Appliance**
- **Initial Configuration of the Data Recovery Appliance**
- **Connect to the Data Recovery Appliance and Configure Backup Locations**
- **Create a Backup Job**
- **View Progress of Backups and Backup Reports**
- **Configuring Email Reports**
- **Managing Backup Locations**

- Restoring VMs
- Performing a Restore Rehearsal to Test Backups
- Performing a File Level Restore

9. Storage Profiles Labs

- What are Storage Profiles?
- Creating User Defined Storage Capabilities
- Associate User Defined Storage Capability with Datastores
- Enable VM Storage Profiles
- Create Storage Profiles
- Configure a VM with a Storage Profile
- Checking VM Storage Compliance
- Deploying VM Using Storage Profiles

10. Host Profiles Labs

- What are Host Profiles
- Creating a Host Profile from an Existing Host
- Exporting and Importing Host Profiles
- Editing Host Profiles
- Attaching Entities, Checking for Compliance, and Creating Answer Files
- Applying Host Profiles
- Seeing the Changes Made by Applying Host Profile

11. Update Manager Labs

- Install Update Manager
- Install Update Manager Plug-in
- Configure the Update Manager Settings
- Creating Baselines and Baseline Groups
- Attaching Baselines and Scanning for Compliance
- Staging Patches
- Remediating ESXi Hosts

12. Monitoring and Troubleshooting Labs

- Viewing ESXi and VM Performance Charts
- Viewing Storage Reports
- Viewing Events and Viewing, Modifying, Creating, and Getting Emails for Alarms
- Using resxtp
- Viewing the ESXi Host Logs
- Viewing the vCenter Logs
- Viewing Active Sessions to vCenter

13. Scheduled Tasks Labs

- Creating Scheduled Tasks

Appendix-A VMware vSphere 5.5 Lessons & Labs

Lab-1	Installing VMware vSphere ESXi 5.5	Lab
Lab-2	Configuring VMware vSphere ESXi 5.5	Lab
Lab-3	Installing vSphere Client for Windows	Lab
Lab-4	Installing vCenter Server Appliance (VCSA) 5.5	Lab
Lab-5	vSphere Web Client	Lab
Lab-6	Installing vCenter 5.5 for Windows	Lab
Lab-7	Exploring New vSphere 5.5 Web Client Features	Lab
Lab-8	New vSphere 5.5 Replication Features	Lab
Lab-9	Deploying and Administering VMware Virtual SAN 5.5	Lab
Lab-10	Using VMware Virtual Flash (vFlash)	Lab