VCP-510 VMware Certified Professional Volume-2

پوره‌سازی ۱۱ ساعتی به زبان فارسی

شامل:
- Volume-2
- ۳ بخش آموزشی با بیش از ۱۲۰ درس به زبان انگلیسی و تصویب فارسی
- ۲۰۲ لایه‌سازی کاربردی و تصویب اسنادی امتحان ۵۱۰-۵۱۰

شامل:
- Utilities
- EBooks، VMware 5.5، 6.0 beta Documentation
- امتحان بین المللی، vSphere 5.5، شبیه ساز

System Requirements:
- Windows XP with SP 2
- ۲۵۶ MB RAM
- CD-ROM or DVD
- ۱۰۲۴ x ۷۶۸ High Resolution Video Card & Monitor
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
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 Resxtop and Guest Perfmon
  - Determining Host Performance Using Resxtop
  - 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 resxtop
• Viewing the ESXi Host Logs
• Viewing the vCenter Logs
• Viewing Active Sessions to vCenter

13. Scheduled Tasks Labs
• Creating Scheduled Tasks
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