

Lab 12: Creating a Virtual Machine

- Create a virtual machine
- Install a guest operating system in a virtual machine
- Create a virtual machine on an iSCSI VMFS datastore
- Import a virtual machine into the inventory
- Install VMware Tools into a Windows guest operating system
- Enable time synchronization between the virtual machine and the host
- Copy files to a virtual machine

Lab 13: Using Templates and Clones

- Configure guest operating system customization on vCenter Server system
- Create a template
- Deploy a virtual machine from a template
- Clone a virtual machine that is powered on

Lab 14: VMware vCenter Converter

- Prepare a system for hot cloning
- Hot-clone a system

Lab 15: Modifying a Virtual Machine

- Modify a virtual machine's disk, memory, and name
- Add a raw LUN to an existing virtual machine and verify that the guest operating system sees the new disk

Lab 16: Managing Virtual Machines

- Remove a virtual machine from the vCenter Server inventory
- Re-add the virtual machine and verify that it appears in the inventory
- Delete a virtual machine from the disk and verify that it cannot be accessed
- Take snapshots of a virtual machine
- Revert to a snapshot
- Migrate a virtual machine using Storage VMotion

Lab 17: Access Control

- Create a Windows account on the vCenter Server system
- Create the Virtual Machine Creator role
- Assign the role to a user
- Verify that the user can create a virtual machine
- Restrict virtual machine creation to the local datastore only
- Create a role named Template Deployer (Optional)

Lab 18: Monitoring Virtual Machine Performance

- Monitor CPU utilization using vCenter Server
- Run a CPU-intensive application
- Undo changes made to your virtual machine for this lab

Lab 19: Viewing Performance Data Using the Command Line

- Use resxtp to retrieve performance metrics on CPU, networking, and memory
- Log out of vMA

Lab 20: Using Alarms

- Create a virtual machine alarm
- Trigger the virtual machine alarm then acknowledge it
- Disable a virtual machine alarm

Lab 21: Resource Pools

- Create resource pools
- Verify resource pool functionality

Lab 22: Thin Provisioning

- Prepare a VMFS volume
- Configure datastore alarms
- Create thin-provisioned virtual machines
- Deploy a thick-provisioned virtual machine from template
- Grow a VMFS volume
- Inflate a thin-provisioned virtual disk
- Determine the virtual machine disk format

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Lab 23: VMware vCenter Linked Mode

- Enable vCenter Linked Mode
- Perform a combined query from a Linked Mode group
- Execute Administration operations in a Linked Mode group
- Isolate a vCenter Server instance from a Linked Mode group

Lab 24: Migrating Virtual Machines

- Add a second ESX host to the datacenter
- Add a second ESX host to the VMotion distributed switch
- Create a VMkernel port for your host on the VMotion distributed switch
- Verify that your virtual machines' settings meet VMotion requirements
- Verify that your ESX host meets VMotion requirements
- Connect virtual machines to the Production network of the lower-numbered ESX host
- Perform a VMotion migration of your virtual machine

Lab 25: VMware Distributed Resource Scheduler Clusters

- Create a DRS cluster
- Populate the DRS cluster
- Verify DRS cluster functionality
- Create, test, and remove anti-affinity rules
- Create, test, and remove affinity rules

Lab 26: VMware Distributed Power Management

- Configure IPMI/iLO as the VMware DPM wake protocol
- Test the IPMI/iLO configuration
- Configure VMware DPM

Lab 27: Using VMware High Availability

- Modify the cluster to add VMware HA functionality
- Verify VMware HA functionality
- Identify Available Resources with the Resource Allocation tab
- Manage VMware HA slot size
- Restrict admission in the VMware HA cluster

Lab 28: Configuring VMware High Availability Network Redundancy

- Configure and test VMware HA failure detection time
- Configure an alternative heartbeat network for VMware HA
- Configure isolation addresses
- Verify heartbeat network functionality

Lab 29: Configuring VMware Fault Tolerance

- Enable FT logging
- Activate FT
- Test FT

Lab 30: Installing VMware vCenter Server Heartbeat (Optional)

- Configure a virtual machine for the lab
- Prepare the primary vCenter Server system
- Create and configure the secondary server
- Install the primary vCenter Server system
- Install the secondary vCenter Server system

Lab 31: Configuring and Testing VMware vCenter Server Heartbeat (Optional)

- Explore the Configure Server wizard
- Connect to the vCenter Server Heartbeat console
- Test failover

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Course Outline

Lab 32: VMware Data Recovery

- Install the Data Recover plug-in
- Modify the Data Recovery virtual machine
- Perform initial setup of the Data Recover appliance
- Create a backup job
- Create a restore job

Lab 33: Working with Host Profiles

- Create disparate configurations
- Create a host profile
- Attach, check, and apply a host profile

Lab 34: VMware vCenter Update Manager

- Create a folder and add a virtual machine template
- List all patches installed on your virtual machine and template
- Create a patch baseline
- Scan for updates
- Remediate the virtual machine and template

Lab 35: Installing ESX (VDC)

- Install ESX software
- Access the installed ESX host using the vSphere client

Lab 36: Installing ESX (DVD)

- Install ESX software
- Access the installed ESX host using the vSphere client

Lab 37: Scripted Installation (VDC)

- Edit an installation script
- Upload the installation script to an NFS repository
- Complete a scripted installation of an ESX host

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