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Install and Configure vCenter Server

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- Microsoft SQL Server
- Database Size Estimator
- Windows vCenter Installer App
- Installing vCenter Server Appliance
- Activate the Client Integration Plug-in
- vCSA Ready to Start the Install
- Select target ESXi 6.0 host
- Set vCSA Password
- Platform Service Controller (PSC)
- Embedded / External PSC
- Set SSO Password, Domain
- Select vCSA Installation Size
- Set vCSA Target Datastore
- Set vCSA Target Datastore
- Ready to Complete vCSA Deployment Wizard
- vCenter Server Appliance Deployment Completed
- vCenter Lab – Parts 1, 2 Only
- vCenter HowTo - Resize vCSA, Join Linux to AD, Configure SSO for AD
- Log in to vCSA using Web Client
- Add vCSA to Active Directory
- Add vCSA to Active Directory
- Update Single Sign-on
- Grant Admin Rights to Domain Accounts
- Don't Bypass vCenter
- Home View in vSphere Client
- Home View in Web Client
- Organizing Inventory
- Folders Organize Datacenters
- Folders in Datacenters
- ESXi Host Managed by vCenter
- vCenter Sessions
- vCenter Task Scheduler
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- Web Access Remote Console
- Remote Console Menu Items
- Review / Edit Virtual Hardware
- VM Actions Menu
- vSphere C# Client – Use Cases
- Functions Only in Web Client
- vCenter Maximums
- vCSA Changes from vSphere 5.5
- VMware Certificate Authority
- VMCA Options
- Custom Certificate Management
- vCSA Management Interface
- Best Practices
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- vCenter HowTo - Update Permissions, Create Inventory, Add Host, Install/Use VMRC
- Review & Questions

Rapid VM Deployment using Templates and Clones

- Templates, Clones
- Project Plan
- VM Rapid Deployment
- Template Theory
- Template Benefits
- Templates
- Disk Formats
- Thick Disk Use Cases
- Thin Disk Use Cases
- Select Target VM Disk Format
- Creating a New Template
- Template Properties
- Templates in Hosts and Clusters
- Deploy VM From Template
- Clone a VM
- Clone a Template
- Template Maintenance
- Windows VM Customization
- Legacy Windows Customization
- Enable SSH on vCSA Appliance
- Enable PI Shell on vCSA
- Upload Sysprep Files to vCSA
- Non-Windows OS Customization
- Pre-Built Virtual Machines
- Virtual Appliance Examples
- Virtual Appliance Pros
- Virtual Appliance Cons
- Import Virtual Machines
- Export OVF Template
- Change VM vCPU Cores / Sockets
- Multi-core vCPUs Best Practice
- vCPUs Core Maxims
- pCPU to vCPU H/W Virtualization
- Hot Plug Hardware OS Support
- Hot Plug CPU/Memory
- Hotplugging vCPUs
- Hot Plug vCPU Use Cases
- Hot Plug Memory Use Cases
- Hot Plug RAM Strategy
- Dynamically Add Memory
- VM 2D / 3D Video Support
- Windows 7 Basic 3D Video
- Hardware 3D Video
- All VMs Support Simple Changes
- Add Virtual Hardware
- Virtual Machine Options
- Virtual Machine Resources
- Hot Add Virtual Disk
- Raw Device Map (RDM)
- After Hot Add - Rescan Disks
- What's New in vSphere 6.0
- Work with VMs Lab
- Templates and Clones HowTo - Working with Templates and Guest OS Customizations
- Templates and Clones HowTo - Rapidly Deploying VMs. VM Constituent Files
- Templates and Clones HowTo - Hot Adding / Growing Virtual Disks
- Templates and Clones HowTo - Hot Growing the C: drive of a Windows VM
- Templates and Clones HowTo - Hot Adding Virtual CPU and Virtual RAM
- Review & Questions

vCenter and ESXi Permissions

- ESXi / vSphere Security & Permission Model
- Security & Permission Model
- Project Plan
- Privileges and Roles
- Overview of Stock Roles
- Permissions – Users / Groups
- Assigned Permissions
- Determining Permissions
- Assign Users/Groups to a Role
- Local, Domain, SSO Users, Groups
- Role Assignments
- Working with Roles
- Editing a Role
- Permission Examples – 1
- Permission Example 2
- Permission Example 3
- vCenter Users, Groups
- No Access Role
- Checking Item Permissions
- View vCenter Base Permissions
- Permissions Best Practice
- Local ESXi Users
- View ESXi Permissions
- Permission Best Practices
- Permissions Lab
- Permissions HowTo – Create and Test Permission Assignments
- Permissions HowTo – Clone and Edit Stock Roles to Make Custom Roles. Test Roles
- Review & Questions

Infrastructure Monitoring with vCenter Alarms

- Virtual Infrastructure Monitoring with vCenter Alarms
- vCenter Alarms
- ESXi Host Alarms
- Add Alarm
- Create a Custom Alarm
- ESXi Host Alarm Triggers
- Datastore Alarm Triggers
- Virtual Machine Alarm Triggers
- Configure VM Alarm Actions
- vCenter Triggered Alarms
- Default Alarm Definitions
- Set Local Mail Server Properties
- Set SNMP Receivers Properties
- Updated SNMP Settings
- Change Custom Alarms
- Working with Active Alarms
- Working with Object Alarms
- Alarm Best Practices
- Alarm Targets
- Alarms Worth Considering
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Physical to Virtual Migration with vSphere Converter

- Workload Migration with VMware vCenter Converter Standalone
- vCenter Converter
- Converter Import Source Options
- Converter VM Target Options
- Project Plan
- Supported Operating Systems
- What's New in Converter 5.5.3
- Clone & Update Disks
- Install and Enable Converter
- Converter Steps
- Prepare for Conversion
- Launch Converter Enterprise
- Profile The Source Machine
- Specify Conversion Target
- Specify New VM Location
- Specify Host, Datastore
- Set Target VM Properties
- Clone Source Machine Disk(s)
- Resize Target VM Disk
- Copying Disk Volumes
- Synchronize Changes
- Post Conversion Tasks
- Create the New Virtual Machine
- VM Reconfiguration
- Guest OS Customization
- Converter Housekeeping
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- Converter Caveats
- Conversion in Progress
- Trouble Spots
- Converter Best Practices
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