



Global Knowledge®

vSphere 5/6: Install, Configure, Manage

Review Questions

VM Management

- 1. What are the two things that make a VM easy to move and copy?**
- 2. Which vSphere feature allows the migration of a powered-on VM?**

VM Management Answers

1. Each VM is encapsulated into files, and is independent of physical hardware
2. vMotion

ESXi Configuration Questions

- 1. How do you set a static IP address for a freshly-built ESXi host?**
- 2. Why would you enable lockdown mode in ESXi?**
- 3. Why is it important to configure NTP on ESX/ESXi hosts?**

ESXi Configuration (Continued)

1. Using the DCUI
2. To prevent direct connections to the host
3. Accurate performance graphs, time stamps in log messages, and so that virtual machines have a source to synchronize with

VM Questions

1. What are the main files that make up a VM?

VM Answers

1. Configuration file, virtual disk file, NVRAM settings file, log file

vCenter Questions

- 1. What is the name of the agent that vCenter Server adds to an ESXi host?**
- 2. What are the different inventory views in the vSphere Client when logged into vCenter?**
- 3. What is the name of the default SSO administrator when using the vcenter appliance?**

vCenter Answers

1. vpxa
2. Host and clusters, VMs and templates, Datastores and Datastore Clusters, Networking
3. administrator@vsphere.local

Networking Questions

- 1. What are the uses of a VMkernel port?**
- 2. What name would be given to a second standard virtual switch on an ESXi host?**
- 3. How many VMkernel ports are created by default on an ESXi host?**

Networking Answers

1. ESXi management network, vMotion, IP-based storage
2. vSwitch1
3. 1

Storage Questions

- 1. How is each iSCSI initiator and target identified?**
- 2. What is the maximum size of a VMFS datastore?**
- 3. What NAS protocol does ESXi support?**
- 4. What are the 3 storage path selection policies?**

Storage Answers

1. IQN or EUI
2. 32
3. NFS version 3 and 4.1
4. Fixed or Most Recently Used Round Robin

VM Questions

- 1. What are the names of the configuration files of a virtual machine and a template?**
- 2. How should you configure a VM that needs to run on ESX/ESXi 4.1 and ESXi 5 hosts?**
- 3. How do you make modifications to a template?**
- 4. Which types of migrations allow you to migrate a VM to a new host and a new datastore as a single operation?**

VM Answers

1. **VM-name.vmx and Template-name.vmtx**
2. **With version 7 hardware**
3. **Convert it back to a VM, make the changes, convert it back to a template**
4. **Cold and Suspended VM migrations**

Resource Management Questions

- 1. Which setting guarantees an amount of CPU for a VM?**
- 2. Which memory management feature is able to reclaim memory from a VM?**
- 3. Which CPU performance measurement is a strong indicator of contention for CPU resource?**
- 4. What is the process to get an email sent by vCenter Server in the event of a triggered alarm?**

Resource Management Answers

1. CPU reservation
2. vmmemctl, the memory balloon driver
3. CPU Ready
4. Set the “Send a notification email” action in an alarm, configure vCenter Server with an SMTP server

HA Questions

- 1. What are the biggest advantages of VMware Fault Tolerance over Microsoft Cluster Service?**
- 2. How does VMware HA detect a possible host failure?**
- 3. What action does HA VM Monitoring perform if a VMs heartbeats are no longer received?**
- 4. What is the default isolation address used by hosts in a HA cluster?**

HA Answers

- 1. Fault Tolerance works with any guest operating system and application, is more simple to configure, and offers zero downtime**
- 2. A lack of HA agent heartbeats being received by other hosts in the cluster**
- 3. The VM gets reset on the same ESXi host**
- 4. Default gateway address of the VMkernel**

DRS Questions

- 1. Can a VM running on a host with 2 physical CPUs be migrated to a host with 4 physical CPUs with VMotion?**
- 2. When would it be advisable to use an anti-affinity rule in DRS?**

DRS Answers

1. Yes
2. When multiple VMs perform the same role, eg. DNS servers



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