

# 2V0-621D<sup>Q&As</sup>

VMware Certified Professional 6 – Data Center Virtualization Delta

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### QUESTION 1

An administrator notices that a Windows virtual machine is using 95% CPU in Task Manager. Which two actions should be taken to resolve this issue? (Choose two.)

- A. Increase the memory reservation of the virtual machine.
- B. Increase the CPU Shares on the resource pool where the virtual machine resides.
- C. Decrease the CPU reservation of the virtual machine.
- D. Increase the CPU limit on the resource pool where the virtual machine resides.

Correct Answer: BD

There are two ways to resolve high CPU usage. First increase CPU shares on resource pool where the VM resides. Secondly, increase CPU limit on the resource pool that serves the concerned VM.

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### QUESTION 2

Which two statements are true regarding upgrading ESXi 6.x hosts using a USB flash drive? (Choose two.)

- A. The ks.cfg file must be available to the ESXi 6.x host during bootup on a TFTP server.
- B. The USB flash drive must be formatted using Fat32.
- C. A partition table must be manually created on the USB flash device.
- D. The USB flash drive must be mounted from a Windows device with sysconfig installed.

Correct Answer: BC

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### QUESTION 3

An administrator wants to allow users to login to the vSphere Web Client using the Use Windows session authentication check box for faster authentication. Which three requirements must be met for this feature to be available and functional? (Choose three.)

- A. Install the vSphere Web Client Integration browser plug-in on the vCenter Server and Platform Services Controller machines.
- B. Install the vSphere Web Client Integration browser plug-in on each workstation from where a user will sign in.
- C. The users must be signed into Windows using Active Directory user accounts.
- D. The administrator must create a valid Identity Source in Single Sign-On for the users domain.
- E. The administrator must create a valid Single Sign-On Identity Source using Integrated Windows Authentication.

Correct Answer: BCD

To enable windows session authentication, install the vSphere Web Client Integration browser plug-in on each workstation from where a user will sign in. The users must be signed into Windows using Active Directory user accounts. The administrator must create a valid Identity Source in Single Sign-On for the users domain.

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#### QUESTION 4

When operating with Distributed Resource Scheduler (DRS) and Distributed Power Management (DPM), what two statements explain the impact of disabling vSphere High Availability admission control? (Choose two.)

- A. VMware DPM does not place hosts in standby mode if doing so would violate failover requirements.
- B. DRS does not evacuate virtual machines from a host for the purpose of placing it in maintenance or standby modes if placing the host in this state would violate failover requirements.
- C. DRS will evacuate virtual machines from hosts and places hosts in maintenance or standby modes regardless of the impact this might have on failover requirements.
- D. VMware DPM will place hosts in standby mode even if doing so violates failover requirements.

Correct Answer: CD

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#### QUESTION 5

Refer to the Exhibit.



A vSphere 6.x environment is configured with VMware Virtual Volumes (VVOLs). An administrator accesses the cluster Actions menu, as shown in the Exhibit. Which option is used to create a VVOL on an existing VVOL container?

- A. Storage
- B. Deploy OVF Template
- C. New vApp
- D. Settings

Correct Answer: A

A storage container is the storage that is available physically on your storage array. Now I say physically but this could also be virtually presented storage even on an ESXi host but somewhere somehow it will be back-ended on some physical medium, be it HDD, SSD or hey, maybe even a super fast memory disk. Basically it's a chunk of physical storage somewhere. Capacity Pools are logical partitions carved out of these to provide a chunk of storage to your VM

Admins. Capacity pools may also span multiple storage arrays even across sites. Now you could have a single capacity pool within your storage container or multiple depending on your requirements if you need some sort of logical separation for say separate tenants or separate VM admins needing their own separate chunk of storage but just simply think of it as a chunk of storage presented to your VM admins.

Reference: <http://www.wooditwork.com/2012/10/29/vmware-vmvolumes-the-game-changing-future-for-storage-is-demoed/>

## QUESTION 6

Refer to the Exhibit.



```
[root@ds-lab-vsan12:~]# esxcli storage nmp psp roundrobin deviceconfig set --useano=0 -d naa.600000e00d11000000111cd2000f0000
```

An administrator is configuring a storage device as shown in the Exhibit.

What is the expected effect on the stated device after running the command?

- A. I/O will rotate on all storage targets regardless of port group state.
- B. I/O will rotate on all storage targets that are Active Optimized state only.
- C. I/O will rotate on all storage targets that are Active Unoptimized state only.
- D. I/O will rotate on all storage targets that are on Available Nodes only.

Correct Answer: B

When the command is run, I/O will rotate on all storage targets regardless of port group state.

## QUESTION 7

An administrator has migrated a vCenter Server Appliance from version 5.5 to version 6.x. During the migration, the administrator selected DHCP for the appliance and obtained a hostname from the DHCP server. The administrator adjusts the hostname after the migration and uses a static IP and hostname.

What should the administrator do immediately after this change to prevent service failures?

- A. Regenerate the SSL certificates.
- B. Re-register components to Single Sign-On.
- C. Update the /etc/hosts file.
- D. Execute the command `services.restart vmware-vpxd`.

Correct Answer: A

To resolve this issue, regenerate the vCenter Server certificate using a stronger public key strength.

Reference:

[http://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKc&externalId=2074942](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKc&externalId=2074942)

### QUESTION 8

Refer to the Exhibit.

#### Rule-Set 1

Select rules to create your VM storage policy.

- The VM storage policy will match datastores that satisfy any of the rule sets.
- A rule set will match datastores that satisfy all of the selected rules.

#### Rules based on common capabilities

<Add capability>

#### Rules based on vendor-specific capabilities

VSAN

Number of failures to tolerate 2

Number of disk stripes per object 3

<Add capability>

#### Rules based on tags

Add tag-based rule...

#### Storage Consumption Model

A virtual disk with size 100 GB would consume:

Storage space  
300.00 GB  
Initially reserved storage space  
0.00 B  
Reserved flash space  
0.00 B

A Storage Policy for a Virtual SAN is set to the default policy, as shown in the Exhibit. Which change would reduce the storage consumption by one third?

- A. Number of failures to tolerate = 1
- B. Number of disk stripes per object = 2
- C. Number of failures to tolerate = 3
- D. Number of disk stripes per object = 1

Correct Answer: A

Number of failures to tolerate defines the number of host, disk, or network failures a virtual machine object can tolerate. For n failures tolerated, n+1 copies of the virtual machine object are created and 2n+1 hosts with storage are required. Default value is 1. Maximum value is 3.

Reference: <http://pubs.vmware.com/vsphere-55/index.jsp?topic=%2Fcom.vmware.vsphere.storage.doc%2FGUID-C8E919D0-9D80-4AE1-826B-D180632775F3.html>

### QUESTION 9

An administrator runs the command `esxcli storage core device list` and sees the following output:

mpx.vmhba1:C0:T0:L0 Display Name: RAID 5 (mpx.vmhba1:C0:T0:L0) Has Settable Display Name: false Size: 40960  
Device Type: Direct-Access Multipath Plugin: NMP Devfs Path: /vmfs/devices/disks/mpx.vmhba1:C0:T0:L0 Status: off Is  
Local: true What can be determined by this output?

- A. The device is being used for vFlash Read Cache.
- B. The device is in a Permanent Device Loss (PDL) state.
- C. The device is a local Solid State Device (SSD).
- D. The device is in an All Paths Down (APD) state.

Correct Answer: B

Reference: <http://vmwaremine.com/2014/07/07/manage-psa-claimrules-satp-rules-esxcli/#sthash.i6Esax8x.dpbs>

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### QUESTION 10

Which three logs can be reviewed to troubleshoot a vCenter Server upgrade failure? (Choose three.)

- A. vminst.log
- B. vim-vcs-msi.log
- C. pkgmgr.log
- D. vc-upgrade.log
- E. firstboot.log

Correct Answer: ABC

Reference: [http://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKCA&externalId=2007864](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKCA&externalId=2007864)

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### QUESTION 11

An administrator is troubleshooting a CPU issue for a virtual machine. The following is seen in esxtop:

CPU0 is at 100% usage

The remaining logical CPUs are close to 0%

%RDY value is consistently above 10%

What is likely the cause of the CPU issue?

- A. The virtual machine has a CPU limit configured.
- B. The virtual machine's guest operating system is configured for SMP.
- C. The virtual machine has CPU affinity configured.

D. The virtual machine is configured with a CPU reservation.

Correct Answer: C

By setting a CPU affinity on the virtual machine you are limiting the available CPUs on which the virtual machine can run. It does not dedicate that CPU to that virtual machine and therefore does not restrict the CPU scheduler from using that CPU for other virtual machines.

Reference: <http://frankdenneman.nl/2011/01/11/beating-a-dead-horse-using-cpu-affinity/>

## QUESTION 12

Which two statements regarding Distributed Resource Scheduler (DRS) affinity rules are true? (Choose two.)

- A. When two VM-VM affinity rules conflict, the older one takes precedence and the newer rule is disabled.
- B. Using Specify Failover Hosts admission control policy, VM-VM affinity rules are not supported.
- C. DRS gives higher precedence to preventing violations of anti-affinity rules than violations of affinity rules.
- D. It is not possible to create an affinity rule that conflicts with the other rules being used.

Correct Answer: AC

When you create a VM-Host affinity rule, its ability to function in relation to other rules is not checked. So, it is possible for you to create a rule that conflicts with the other rules you are using. When two VM-Host affinity rules conflict, the older

one takes precedence and the newer rule is disabled. DRS only tries to satisfy enabled rules and disabled rules are ignored.

DRS, vSphere HA, and vSphere DPM never take any action that results in the violation of required affinity rules (those where the virtual machine DRS group `must run on` or `must not run on` the host DRS group). Accordingly, you should

exercise caution when using this type of rule because of its potential to adversely affect the functioning of the cluster. If improperly used, required VM-Host affinity rules can fragment the cluster and inhibit the proper functioning of DRS,

vSphere HA, and vSphere DPM.

Reference: <https://pubs.vmware.com/vsphere-55/index.jsp?topic=%2Fcom.vmware.vsphere.resmgmt.doc%2FGUID-793013E2-0976-43B7-9A00-340FA76859D0.html>

## QUESTION 13

Which three are requirements for configuring Storage I/O Control (SIOC)? (Choose three.)

- A. The datastore must consist of only one extent.
- B. The datastore is managed by a single vCenter Server.
- C. Auto-tiered storage must be compatible with SIOC.



- D. Auto-tiered storage must be SSD or SATA.
- E. The datastore must be VMFS.

Correct Answer: ABC

Storage I/O Control (SIOC) is used to control the I/O usage of a virtual machine and to gradually enforce the predefined I/O share levels. SIOC is supported on Fibre Channel and iSCSI connected storage in ESX/ESXi 4.1 and 5.0. With ESXi

5.0 support for NFS with SIOC was also added. Datastores with multiple extents or Raw Device Mapping (RDM) are currently not supported. Reference: [http://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=1022091](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1022091)

#### QUESTION 14

Which two identification sources can a vSphere Auto Deploy rule use to identify target hosts? (Choose two.)

- A. Processor Serial Number
- B. Security Identifier
- C. SMBIOS information
- D. BIOS UUID

Correct Answer: CD

Rules can assign image profiles and host profiles to a set of hosts, or specify the location (folder or cluster) of a host on the target vCenter Server system. A rule can identify target hosts by boot MAC address, SMBIOS information, BIOS UUID, Vendor, Model, or fixed DHCP IP address. In most cases, rules apply to multiple hosts. You create rules by using Auto Deploy PowerCLI cmdlets. After you create a rule, you must add it to a rule set. Only two rule sets, the active rule set and the working rule set, are supported. A rule can belong to both sets, the default, or only to the working rule set. After you add a rule to a rule set, you can no longer change the rule. Instead, you copy the rule and replace either items or patterns. By default, Auto Deploy uses the name of the rule for the copy and hides the original rule.

Reference: [https://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vsphere.install.doc\\_50%2FGUID-EB22DCFF-C606-43CB-A7BC-068AC79A6237.html](https://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vsphere.install.doc_50%2FGUID-EB22DCFF-C606-43CB-A7BC-068AC79A6237.html)

#### QUESTION 15

Which three options are available for replacing vCenter Server Security Certificates? (Choose three.)

- A. Replace with Certificates signed by the VMware Certificate Authority.
- B. Make VMware Certificate Authority an Intermediate Certificate Authority.
- C. Do not use VMware Certificate Authority, provision your own Certificates.
- D. Use SSL Thumbprint mode.
- E. Replace all VMware Certificate Authority issued Certificates with self-signed Certificates.

Correct Answer: ABC

There are three options for replace vCenter server security certificates. You can replace it with certificates signed by VMware certificate authority; you can make the VMCA an intermediate certificate authority. Likewise, you can provision your own certificates.

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