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VMware Certified Professional 6 – Data Center Virtualization Delta

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**QUESTION 1**

An administrator enables High Availability (HA) on a Virtual SAN cluster.

There are four vmkernel port groups with the following IP addresses assigned:

Management: 192.168.12.10 vMotion: 192.168.13.10 Virtual SAN: 192.168.14.10 Fault Tolerance: 192.168.15.10

Which IP address will HA use for traffic?

- A. 192.168.12.10
- B. 192.168.13.10
- C. 192.168.14.10
- D. 192.168.15.10

Correct Answer: C

Since the IP address of Virtual SAN is 192.168.14.10, HA will use this for traffic because HA uses the original IP of the entity that needs High availability.

QUESTION 2

What three supported methods can be used to upgrade a host from ESXi 5.x to ESXi 6.x? (Choose three.)

- A. vSphere Update Manager
- B. vihostupdate
- C. esxcli
- D. vSphere Auto Deploy
- E. esxupdate

Correct Answer: ACD

Reference: <https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.upgrade.doc%2FGUID-FE668788-1F32-4CB2-845C-5547DD59EB48.html>

QUESTION 3

Lockdown Mode has been enabled on an ESXi 6.x host and users are restricted from logging into the Direct Console User Interface (DCUI). Which two statements are true given this configuration? (Choose two.)

- A. A user granted administrative privileges in the Exception User list can login.
- B. A user defined in the DCUI.Access without administrative privileges can login.



- C. A user defined in the ESXi Admins domain group can login.
- D. A user set to the vCenter Administrator role can login.

Correct Answer: AB

Reference: <https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.security.doc%2FGUID-F8F105F7-CF93-46DF-9319-F8991839D265.html>

QUESTION 4

Refer to the Exhibit.

Compatibility

- ❖ The host's CPU hardware does not support the cluster's current Enhanced vMotion Compatibility mode. The host CPU lacks features required by that mode.
10.21.38.107
- ❖ The host's CPU hardware does not support the cluster's current Enhanced vMotion Compatibility mode. The host CPU lacks features required by that mode.
10.21.38.106

An administrator is attempting to enable Enhanced vMotion Compatibility (EVC), but receives the error shown in the Exhibit. Which condition would explain the error?

- A. The ESXi hosts are not licensed for EVC.
- B. The administrator does not have privileges to enable EVC.
- C. The ESXi host CPU has the Intel No-Execute feature disabled.
- D. The administrator has turned on Intel Virtualization Technology.

Correct Answer: C

EVC requires all hosts to have the CPU features enabled for Virtualization and No Execute Reference: http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2008403

QUESTION 5

Which two features are deprecated in Network I/O Control 3 (NIOC3)? (Choose two.)

- A. Class Of Service (COS) Tagging
- B. Bandwidth Allocation
- C. User-defined network resource pools



D. Admission control

Correct Answer: AC

Class of Service tagging and user-defined resource pools are deprecated in NIOC3.

QUESTION 6

Refer to the Exhibit.

Device Details

Properties	Paths
Owner	NMP

Partition Details

Partition Format	GPT
▶ Primary Partitions	1
▶ Logical Partitions	0

Multipathing Policies

▶ Path Selection Policy	Fixed (VMware)
Storage Array Type Policy	VMW_SATP_EQL

An administrator wishes to provide Load Balanced I/O for the device shown in the Exhibit. To meet this requirement, which setting should be changed?

- A. Storage Array Type Policy = VMW_NMP_RR
- B. Path Selection Policy = Round Robin (VMware)
- C. Storage Array Type Policy = VMW_SATP_RR
- D. Path Selection Policy = MRU (VMware)



Correct Answer: B

In round robin (VMware) the host uses an automatic path selection algorithm rotating through all available paths. This implements load balancing across all the available physical paths.

Load balancing is the process of spreading server I/O requests across all available host paths. The goal is to optimize performance in terms of throughput (I/O per second, megabytes per second, or response times).

Reference: https://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp?topic=/com.vmware.vsphere.config_fc.doc_40/esx_san_config/managing_san_systems/c_setting_a_path_selection_policy.html

QUESTION 7

What is the minimum Virtual Hardware version required for vFlash Read Cache?

- A. Version 8
- B. Version 9
- C. Version 10
- D. Version 11

Correct Answer: C

Version 10 is the minimum version needed for vFlash Read cache. Reference: <https://virtualizationreview.com/articles/2014/01/16/flash-read-cache.aspx>

QUESTION 8

Which file determines the location of the installation script during a scripted upgrade?

- A. boot.cfg
- B. ks.cfg
- C. script.cfg
- D. upgrade.cfg

Correct Answer: A

You can Modify the boot.cfg file to specify the location of the installation or upgrade script using the kernelopt option.

QUESTION 9

Which two methods are recommended for managing the VMware Directory Service? (Choose two.)

- A. Utilize the vmdir command.



- B. Manage through the vSphere Web Client.
- C. Manage using the VMware Directory Service.
- D. Utilize the dc rep command.

Correct Answer: AB

To manage VMware directory service, you can use vmdir command and vsphere web client. VMware directory service is always managed using vmdir command which is specifically used for directory services.

QUESTION 10

Refer to the Exhibit.

```
7:03:33pm up 17 days 6:15, 750 worlds, 21 VMs, 47 vCPUs: CPU load average: 0.17, 0.24, 0.29
Power Usage: 159W, Power Cap: N/A
PSTATE MHZ:
```

CPU	%USED	%UTIL	%C0	%C1	%C2
0	8.0	17.5	18	52	30
1	4.9	11.9	12	49	39
2	7.7	15.8	16	63	21
3	3.3	8.0	8	56	36
4	9.3	19.0	19	64	17
5	3.8	9.4	9	65	26
6	5.2	11.6	11	60	28
7	6.8	14.1	14	54	32
8	4.8	10.6	11	77	12
9	4.4	9.4	9	55	35
10	3.2	7.6	9	76	14
11	3.5	8.0	8	59	33
12	13.8	25.8	24	34	41
13	7.4	14.9	15	35	50
14	13.6	25.6	26	26	48
15	3.6	7.9	8	44	48
16	6.8	13.3	13	23	63
17	3.5	7.5	7	31	62
18	6.4	12.5	12	33	55
19	3.4	7.2	7	29	64
20	2.7	5.7	6	37	58
21	5.2	9.6	10	19	72
22	4.5	8.7	9	33	58
23	4.4	8.5	8	41	51

An administrator is troubleshooting intermittent poor performance of virtual machines in a vSphere 6.x cluster. Investigating esxtop data shows that the only statistic that stands out is %CSTP as depicted in Exhibit 1:

ID	VM NAME	WORLD	%USED	%CPU	%CSTP	%MEM	%SWAP	%DISK	%NET	%CSTP
10	VM1000	10	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
11	VM1001	11	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

The administrator proceeds to switch to the Power Management screen and observes the data depicted in Exhibit 2:



```
10:01:33pm up 17 days, 6:15, 750 users, 21 VMs, 47 vCPUs; CPU load average: 0.37, 0.24, 0.28
Power Usage: 150W, Power Caps: N/A
STATE MIB2:
CPU MHzES MUTIL MCE MCI MCI
0 8.0 17.5 18 32 30
1 4.9 11.9 12 49 39
2 7.7 15.8 16 63 21
3 3.3 8.0 8 56 36
4 9.3 19.0 19 84 17
5 3.8 9.4 9 45 26
6 5.2 11.6 11 66 26
7 6.8 14.1 14 54 32
8 4.8 10.6 11 77 12
9 4.4 9.4 9 35 25
10 5.2 7.6 7 76 14
11 3.5 8.0 8 59 33
12 15.8 29.8 24 34 41
13 7.4 14.9 15 35 30
14 13.4 25.4 26 26 48
15 3.4 7.9 8 44 48
16 6.8 13.3 13 32 43
17 3.5 7.5 7 31 42
18 6.4 12.5 12 33 55
19 3.4 7.2 7 29 44
20 2.7 5.7 6 37 58
21 5.9 9.4 10 19 72
22 4.5 8.7 9 33 50
23 4.4 8.9 8 41 51
```

Based on the information in the exhibits, which two configurations are probable causes of the poor performance? (Choose two.)

- A. The active power policy is set to Low Power.
- B. The host has active Sleep States configured in the BIOS.
- C. The active power policy is set to High Performance.
- D. The host has active Power States configured in the BIOS.

Correct Answer: AB

It seems that the active power policy has a low power setting and the host has active sleep states configured in the BIOS.

QUESTION 11

An administrator wants to select a Host Power Management Policy for an ESXi 6.x host that will disable most hardware power management features. Which Host Power Management Policy should be selected to meet this requirement?

- A. High Performance
- B. Balanced
- C. Low Power
- D. Disabled

Correct Answer: A

Reference: <http://www.vmware.com/files/pdf/hpm-perf-vsphere5.pdf>

QUESTION 12

Which three statements are correct regarding Fibre Channel over Ethernet (FCOE)? (Choose three.)



- A. The network switch must have Priority-based Flow Control (PFC) set to AUTO.
- B. The network switch must have Priority-based Flow Control (PFC) set to ON.
- C. Each port on the FCoE card must reside on the same vSwitch.
- D. Each port on the FCoE card must reside on a separate vSwitch.
- E. The ESXi host will require a reboot after moving an FCoE card to a different vSwitch.

Correct Answer: ADE

Reference: <https://pubs.vmware.com/vsphere-55/index.jsp?topic=%2Fcom.vmware.vsphere.storage.doc%2FGUID-6B49866F-7005-4099-84AC-4FB2A1A91F64.html>

QUESTION 13

An administrator is configuring the clock tolerance for the Single Sign-On token configuration policy and wants to define the time skew tolerance between a client and the domain controller clock. Which time measurement is used for the value?

- A. Milliseconds
- B. Seconds
- C. Minutes
- D. Hours

Correct Answer: A

The time skew tolerance between a client and the domain controller clock is measured in milliseconds.

QUESTION 14

An administrator wants to reduce the memory overhead for a 3D graphics enabled virtual machine (VM). What advanced feature can be added to the VM configuration file to reduce memory overhead?

- A. vga.vgaOnly=TRUE
- B. vga.svgaEnable=FALSE
- C. svgaEnabled=FALSE
- D. svgaDisable=TRUE

Correct Answer: A

Reference: http://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.vm_admin.doc%2FGUID-FAB0E2C3-3474-461D-99BC-549F7E21FE85.html

**QUESTION 15**

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

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