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**QUESTION 1**


An administrator is attempting to add two Intel-based hosts to a vSphere 6.x cluster containing all Intel-based hosts. The cluster has Enhanced vMotion Compatibility (EVC) enabled, but while performing the action, the administrator receives the error shown in the Exhibit: Which three conditions would explain the error? (Choose three.)

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

- A. EVC is using a newer baseline than the hosts in the Exhibit.
- B. The ESXi hosts have an incompatible version of Streaming SIMD Extensions (SSE).
- C. The ESXi hosts have the Intel No-Execute feature disabled.
- D. EVC is using an older baseline than the hosts in the Exhibit.
- E. The ESXi host does not have the Intel VT-d feature enabled.

Correct Answer: ABC

This is the compatibility issue. The host's CPU hardware doesn't support cluster's current enhanced vMotion because EVC is employing a newer baseline rather than the one used in the process. Secondly, ESXi hosts are incompatible because the version of SSE is incorrect. This has affected EVC compatibility mode. The host CPU lacks Intel-no-Execute feature which is necessary for the CPU hardware to support EVC.

QUESTION 2

What are two use cases for Fibre Channel Zoning in a vSphere environment? (Choose two.)

- A. Increases the number of targets presented to an ESXi host.
- B. Controls and isolates paths in a fabric.
- C. Controls and isolates paths to an NFS share.
- D. Can be used to separate different environments.

Correct Answer: BD



: Using Zoning with Fibre Channel SANs Zoning provides access control in the SAN topology. Zoning defines which HBAs can connect to which targets. When you configure a SAN by using zoning, the devices outside a zone are not visible to the devices inside the zone. Zoning has the following effects:

1.

Reduces the number of targets and LUNs presented to a host.

2.

Controls and isolates paths in a fabric.

3.

Can prevent non-ESXi systems from accessing a particular storage system, and from possibly destroying VMFS data.

4.

Can be used to separate different environments, for example, a test from a production environment.

Reference: <https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-60-storage-guide.pdf>

QUESTION 3

What would prevent VMware Converter from initiating the VMware tools install during a windows server conversion?



Source: \\192.1...\\esxi01.vmx (VMware ESXi 5.x 64 bit) Destination: esxi01 on localhost.local...

Click on an option below to edit it.

Current settings:

- ▼ **Data to copy** Edit
 - Copy type: Disk-based
 - VirtualDisk1: 16 GB
 - VirtualDisk2: 16 GB
- ▼ **Devices** Edit
 - vCPUs: 2 (2 sockets * 1 cores)
 - Disk controller: Preserve source
 - Memory: 8GB
- ▼ **Networks** Edit
 - NIC1: VM Network
 - NIC2: VM Network
 - NIC3: VM Network
 - NIC4: VM Network
- ▼ **Advanced options** Edit
 - Power on destination: No
 - Install VMware Tools: N/A
 - Customize Guest OS: N/A
 - Reconfigure: N/A
- ▼ **Throttling** Edit
 - CPU: Medium
 - Network bandwidth: None

- A. Outdated virtual machine version
- B. Power on destination not selected
- C. No sysprep files available
- D. Reconfigure not selected

Correct Answer: B

When performing Windows server conversion using VMware converter, you have to select power on destination to install VMware tools on windows server. Power on destination uses VMware tools to perform minimization of downtime of important services. Power on destination is a virtual machine so it needs VMware tools.

QUESTION 4

An administrator suspects that the MTU value for a vSphere Standard Switch is misconfigured.

Which two commands can determine the value? (Choose two.)

- A. esxcfg-vswitch -l
- B. esxcli network vswitch standard list
- C. esxcfg-vss -l D. esxcli network standard vswitch list



Correct Answer: AB

Explanation: To display a list of vSwitches on the host, and to check that the configuration of the vSwitch is correct:

Run this command for ESX 3.5 and ESXi/ESX 4.x:

```
# esxcfg-vswitch -l
```

Run this command for ESXi 5.0:

```
# esxcli network vswitch standard list
```

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1007654

QUESTION 5

Users are reporting CPU related performance problems on the virtual machine Email-Prod throughout the day.

The resource settings for the VM and the ESXi host the VM is running on are shown below: VM:

1.

Email-Prod

2.

vCPUs: 4

3.

Memory: 96GB

ESXi host:

1.

CPU: 2 x 8 Core Processors

2.

Memory: 128GB

3.

NUMA architecture. 2 Nodes

Which two options would alleviate the observed performance problem for Email-Prod? (Choose two.)

A. Enable the advanced parameter Numa.PageMigEnable.

B. Enable the advanced parameter Numa.AutoMemAffinity.

C. Enable CPU affinity to separate 2 vCPUs for each NUMA node.



D. Enable CPU affinity to bind all vCPUs to one NUMA node.

Correct Answer: BC

B-) Memory

You can change the amount of RAM that a VM will use like this

```
memsize = "128"
```

If you don't assign a value for memory VMware will use the default-setting which is 32MB

```
memsize = "32"
```

Whenever you assign RAM manually make sure the value is a multiple of 4 - otherwise the VM will not start:

```
memsize = "255"
```

causes this error-message:

Memory size 255 not a multiple of 4

<https://pubs.vmware.com/vsphere-60/index.jsp#com.vmware.vsphere.hostclient.doc/GUID-99E66B5953A8-42D0-A08F-17DBE7D4A864.html?resultof=%2522>

C-) This is expected behavior based on the current architecture of the scheduler. However, these points help to limit the impact of the issue :Lower the number of vCPUs. From the example above, you would lower the number of vCPUs from 8 to 6 or less. If the virtual machines are sized such that they are a whole multiple or divisor of the NUMA node size, this helps with the number of virtual machines that you can power on. If 6 vCPU virtual machines are used, you can run up to at least 8 of those virtual machines (with 100% CPU utilization) without incurring substantial ready times.

<https://www.vmware.com/files/pdf/.../VMware-PerfBest-Practices-vSphere6-0.pdf>

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