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VMware Certified Professional 6 – Data Center Virtualization

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QUESTION 1

An administrator wants to upgrade to vCenter Server 6.x.

The vCenter Server:

1.
Is hosted on a virtual machine server running Microsoft Windows Server 2008 R2, with 8 vCPUs and 16GB RAM.
2.
Will have an embedded Platform Services Controller.
3.
Hosts a Large Environment with 1,000 ESXi hosts and 10,000 Virtual Machines.

Why does the vCenter Server not meet the minimum requirements?

- A. Windows Server 2008 R2 is not a supported Operating System for vCenter Server.
- B. The virtual machine has insufficient resources for the environment size.
- C. The environment is too large to be managed by a single vCenter Server.
- D. The Platform Services Controller must be changed to an External deployment.

Correct Answer: B

vCenter Server for Windows Hardware Requirements

When you install vCenter Server on a virtual machine or physical server running Microsoft Windows server, your system must meet specific hardware requirements.

<https://kb.vmware.com/kb/2107948>

VMware vCenter Server 6.0 Deployment Guide - White Paper ...

<https://www.vmware.com/files/pdf/.../vmware-vcenter-server6-deployment-guide.pdf>

QUESTION 2

To reduce the attack vectors for a virtual machine, which two settings should an administrator set to false? (Choose two.)

- A. ideX:Y.present
- B. serial.present
- C. ideX:Y.enabled

D. serial.enabled

Correct Answer: AB

Removing Unnecessary Hardware Devices Any enabled or connected device represents a potential attack channel. Users and processes without privileges on a virtual machine can connect or disconnect hardware devices, such as network adapters and CD-ROM drives. Attackers can use this capability to breach virtual machine security. Removing unnecessary hardware devices can help prevent attacks. Use the following guidelines to increase virtual machine security.

- Ensure that unauthorized devices are not connected and remove any unneeded or unused hardware devices.
- Disable unnecessary virtual devices from within a virtual machine. An attacker with access to a virtual machine can connect a disconnected CD-ROM drive and access sensitive information on the media left in the drive, or disconnect a network adapter to isolate the virtual machine from its network, resulting in a denial of service.
- Ensure that no device is connected to a virtual machine if it is not required. Serial and parallel ports are rarely used for virtual machines in a datacenter environment, and CD/DVD drives are usually connected only temporarily during software installation.
- For less commonly used devices that are not required, either the parameter should not be present or its value must be false. Ensure that the following parameters are either not present or set to false unless the device is required.

| Parameter | Value | Device |
|-------------------|-------|----------------|
| floppyX.present | false | floppy drives |
| serialX.present | false | serial ports |
| parallelX.present | false | parallel ports |
| usb.present | false | USB controller |
| ideX:Y.present | false | CD-ROM |

Reference:

<https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.security.doc%2FGUID822B2ED3-D8D2-4F57-8335-CA46E915A729.html>

QUESTION 3

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>

QUESTION 4

An administrator is unable to see performance statistics for only the Past Week performance data. The vCenter Server is using a Microsoft SQL Server Database.

What are three likely causes contributing to this issue? (Choose three.)

- A. Performance statistics are turned off.
- B. The Past Day rollup job is not present.
- C. The stats_rollup_1_proc is not present.
- D. The VMware Performance Charts Service is stopped.
- E. The JDBC URL is incorrect in the vcdb.properties file.

Correct Answer: ABC

Explanation: Please refer to this link to troubleshoot this issue: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKc&externalId=1004382

QUESTION 5

An administrator needs to configure a storage solution for a vSphere 6.x implementation with these characteristics:

1.
Snapshot support
- 2.

vMotion Capability

3.

Clustering across multiple ESXi hosts

4.

Database application with high transaction count

5.

vFlash Read Cache

Which solution meets all of the stated requirements?

- A. A vmdk located on a Shared VMFS datastore
- B. A Virtual Mode Raw Device Mapped LUN
- C. A Physical Mode Raw Device Mapped LUN
- D. A virtual SAN-based vmdk

Correct Answer: B

The requirement for this specific storage solution has snapshot support, and vFlash Read cache. For this you need a virtual mode raw device mapped LUN. RDM, which permits the use of existing SAN commands, is generally used to improve performance in I/O-intensive applications. RDM can be configured in either virtual compatibility mode or physical compatibility mode. Virtual mode provides benefits found in VMFS, such as advanced file locking and snapshots. Physical mode provides access to most hardware functions of the storage system that is mapped

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