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# VCP-410

**VMware**

*VMware Certified Professional on VI4*

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**Section 1: Sec One (1 to 111)**

**Details:**

Perform Basic Troubleshooting and Alarm Management

**QUESTION: 1**

The VMKcore is used for storing core dumps for Debugging and Technical Support?

- A. True
- B. False

**Answer: A**

**Explanation:**

The vmkcore partition temporarily stores log and error information should the VMkernel crash.

**QUESTION: 2**

Guided consolidation shows you the following information after a successful analysis (Choose Two)?

- A. CPU Clock Speed
- B. Network Usage
- C. Hardware Profile
- D. Memory Utilization

**Answer: A, D**

**Explanation:**

vSphere Basic System Administration vCenter Server 4.0 ESX 4.0 ESXi 4.0, page 95 When analysis is complete, the following information appears:

- \* Physical Computer - Displays the host name of the physical system being analyzed or imported.
- \* CPU Info - Displays the number of CPUs and their clock speed.
- \* Memory Info - Displays the amount of RAM on the system.
- \* Status - Displays the progress of the analysis.
- \* Confidence - Indicates the degree to which vCenter Server is able to gather performance data about the system and how good a candidate the system is based on the available data.
- \* CPU Usage - Displays the system's average CPU usage over time.

\* Memory Usage - Displays the system's average memory usage over time.

**QUESTION: 3**

To restart the VMware Host Agent on an ESX Host, which command would you use?

- A. service mgmt-vmware restart
- B. service vmware-hostd restart
- C. service vmware-vpxa restart
- D. service mgmt-hostd restart

**Answer: A**

**Explanation:**

Restarting the Management agents on an ESX or ESXi Server To restart the management agents on ESX host:

1. Log in to your ESX Server as root from either an SSH session or directly from the console of the server.
2. Type service mgmt-vmware restart

```
[root@esx5 ~]# service mgmt-vmware start
Starting VMware ESX Management services:
VMware ESX Host Agent is already running
  Availability report startup (background) [ OK ]
[root@esx5 ~]# service mgmt-vmware restart
Stopping VMware ESX Management services:
  VMware ESX Host Agent Watchdog [ OK ]
  VMware ESX Host Agent [ OK ]
Starting VMware ESX Management services:
  VMware ESX Host Agent (background) [ OK ]
  Availability report startup (background) [ OK ]
```

**QUESTION: 4**

What is a function of the vmmemctl driver?

- A. enables swapping of the virtual machines
- B. allows the operation of unsupported guest OS types
- C. enables transparent page sharing
- D. reclaims unused memory from the guest OS

**Answer: D**

**Explanation:**

The vmxmemctl driver collaborates with the server to reclaim pages that are considered least valuable by the guest operating system.

**QUESTION: 5**

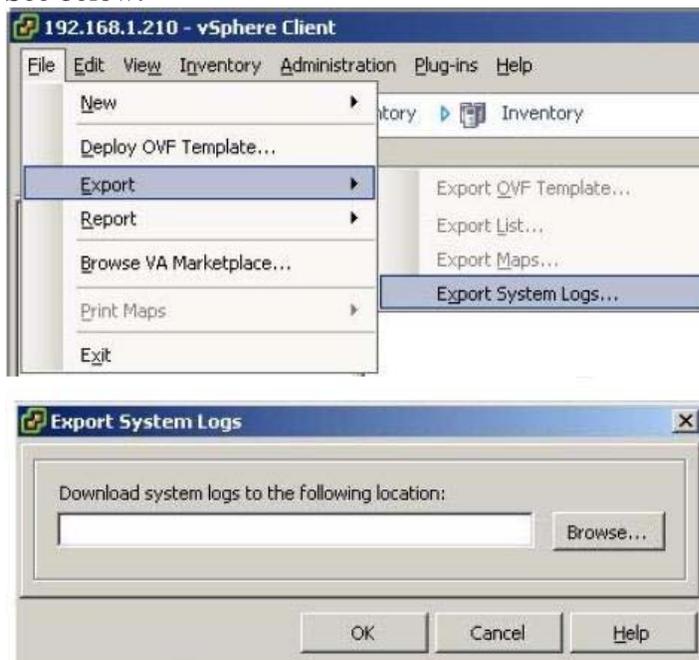
An Administrator is troubleshooting an ESX 4.x Host and needs to export diagnostic information. The ESX Host is not managed by a vCenter Server. How can the information be gathered using the vSphere Client?

- A. The vSphere Client can only be used to export diagnostic data from an ESX Host managed by vCenter
- B. From the Administration navigation, select System Logs, then click the Export System Logs. Select The ESX Host and click OK
- C. From the Administration Drop-Down Menu, select Export Diagnostic Data, select a location and click OK
- D. From the vSphere Client, click File, Export and Export System Logs, select a location and click OK

**Answer: D**

**Explanation:**

See below.



**QUESTION: 6**

Which of the following resources can be viewed using the vCenter Maps (Choose Two)?

- A. HA Resources
- B. Network Resources
- C. Datastore Resources
- D. Host Resources

**Answer:** C, D

**Explanation:**

vSphere Client Online Help The Map Relationships panel contains the following views: Virtual Machine Resources - Shows relationships between the virtual machines on a host and networks or datastores, depending on the options selected. Host Resources - Shows relationships between the host and virtual machines, networks or datastores, depending on the options selected. Datastore Resources - Shows relationships between the datastore and host or virtual machine, depending on the options selected. Custom Map - Lets you select any combination of relationships other than the host-oriented and virtual machine-oriented options. The Custom Map option is preset with all relationships selected.

**QUESTION: 7**

By default, if you remove a user from an Active Directory domain who is currently logged in to vCenter Server, which of the following actions is taken?

- A. The user is given a warning they are about to be logged out and given a 1 hour grace period
- B. The user can remain logged in indefinitely, but once they log out they cannot log back in
- C. The user can remain logged in for up to 24 hours
- D. The user is logged out of vCenter Server and cannot log back in

**Answer:** C

**QUESTION: 8**

If you cannot connect to a standalone ESX Host with the vSphere client, which command would you use to verify that the VMware Host Agent is running (Choose Two)?

- A. vmware -v
- B. ps -ef | grep hostd
- C. service mgmt-vmware status
- D. esxcfg-info

**Answer:** B, C

**Explanation:**

Vmware-hostd is the VMware Host Agent. The screenshots below shows ps -ef | grep hostd being used to confirm the VMware Host Agent is running;

```
[root@esx5 ~]# ps -ef | grep hostd
root      21121      1   0 Jan11 tty1      00:00:00 /bin/sh /usr/bin/vmware-watchdog
-s hostd -u 60 -q 5 -c /usr/sbin/vmware-hostd-support /usr/sbin/vmware-hostd /e
tc/vmware/hostd/config.xml -u
root      21120 21121   0 Jan11 ?        00:23:19 /usr/lib/vmware/bin/vmware-hostd
/etc/vmware/hostd/config.xml -u
```

and service mgmt-vmware status used to show the status of the VMware Host Agent daemon.

```
[root@esx5 ~]# service mgmt-vmware status
vmware-hostd (pid 21120) is running...
[root@esx5 ~]# _
```

**QUESTION:** 9

In order to reach the BIOS of a Virtual Machine (Choose Two)?

- A. The System Administration can power on the Virtual Machine and press F2 as the VM starts up
- B. The System Administrator can edit the .vmx settings for the Virtual Machine
- C. The System Administrator can manually edit the .NVRAM file in the Virtual Machine's home directory
- D. The System Administrator can force the Virtual Machine to boot into the BIOS by changing a Virtual Machine property

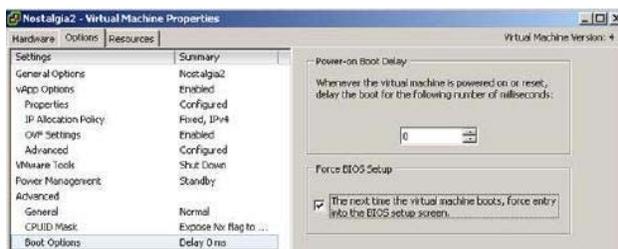
**Answer:** A, D

**Explanation:**

Power on the Virtual Machine and press F2 as the VM starts up



Configuring the Virtual Machine to boot into the BIOS by changing a Virtual Machine property.



### QUESTION: 10

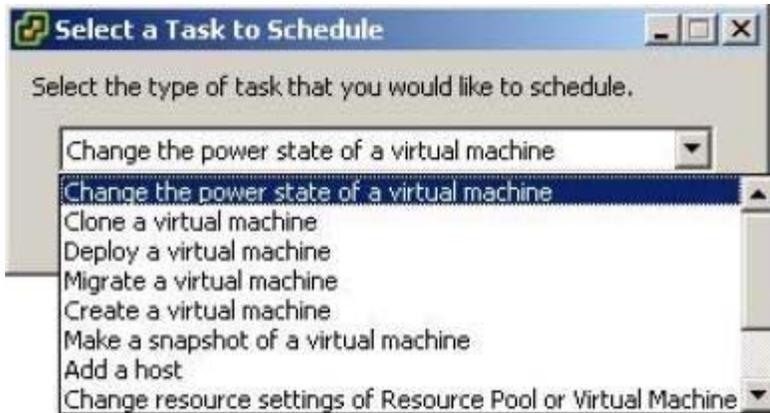
Using the vSphere Client, which of the following actions can be scheduled through the New Task Wizard (Choose Two)?

- A. Create a snapshot of a virtual machine
- B. Enter Maintenance Mode
- C. Add a host
- D. Change the power state of a host

**Answer:** A, C

### Explanation:

See below



**QUESTION: 11**

In the vSphere Client the Virtual Machine Resource Allocation tab shows Host Memory and Guest Memory. What is the meaning of these terms? (Choose two)

- A. Host memory is the actual memory usage of the Virtual Machine.
- B. Guest Memory is the actual memory usage of the Virtual Machine
- C. Host memory is the amount of physical memory that has been allocated to a Virtual Machine
- D. Guest Memory is amount of physical memory that has been allocated to a Virtual Machine

**Answer:** A, D

**Explanation:**

vSphere Help  
Host Memory

This section displays information about host memory usage. [A above] Table 36. Host Memory Usage

Label	Description
Consumed	Actual consumption of physical memory that has been allocated to the virtual machine.
Overhead Consumption	Amount of consumed memory being used for virtualization purposes

Host memory therefore refers to the current usage of memory rather than the current allocation, Guest Memory This section displays information about guest memory usage. [B above]. Table 37. Guest Memory Usage

Label	Description
Private	Amount of memory backed by host memory and not being shared.
Shared	Amount of memory being shared.
Swapped	Amount of memory reclaimed by swapping.
Ballooned	Amount of memory reclaimed by ballooning.
Unaccessed	Amount of memory never referenced by the guest.

**QUESTION: 12**

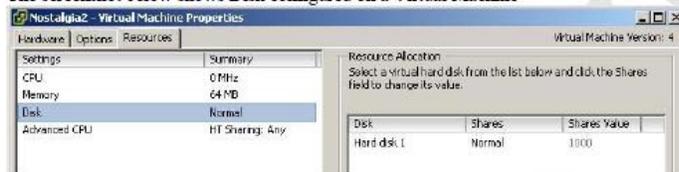
An administrator wants to apply Disk Shares to ensure proper storage performance. These shares are configured on which object?

- A. Resource Pool
- B. Storage Adapter
- C. Virtual Machine
- D. Datastore

**Answer: C**

**Explanation:**

The screenshot below shows Disk configured on a Virtual Machine

**QUESTION: 13**

Under which circumstance will a virtual machine always fail to power on?

- A. when there is no free space in VMFS
- B. when the virtual machine's reservation cannot be guaranteed
- C. when the host's license server became inaccessible 24 hours ago
- D. when the virtual machine's memory is configured at greater than 3.6 GB

**Answer: B**

**Explanation:**



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