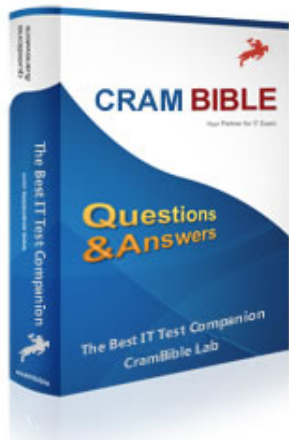


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VCP-410

VMware Certified Professional on VI4

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THE TOTAL NUMBER OF QUESTIONS IS 649

Exam A

QUESTION 1

When installing ESX 4.0, where is the Service Console file system located?

- A. In a virtual disk on a local VMFSdatastore
- B. On a local physical disk
- C. In a virtual disk on a local or shared VMFSdatastore
- D. On a local physical disk or on a mapped SAN LUN

Answer: A

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

The reason for this is the fact that the service console is a VMDK. This VMDK is stored on the local VMFS volume by default in the following location:
esxconsole-/esxconsole.vmdk.

Everyone at this point should be aware that the Service Console is now located in a vmdk on a VMFS partition. The Service Console vmdk must be stored on a vmfs datastore and the datastore must either be local storage or SAN storage that is only presented to the one host

QUESTION 2

An administrator is installing ESX 4.0 on a physical server. Which of the following components would need to be modified or replaced to support a successful installation?

- A. 2 AMDOpteron CPUs
- B. 4GB RAM
- C. 2 LSI Logic LSI7202XP-LCFibre Channel HBAs
- D. 4 Intel PRO 1000 Network Adapters

Answer: C

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Getting Started with ESX, ESX 4.0, vCenter Server 4.0, Page 6.
ESX Hardware Requirements

64-Bit Processor

-VMware ESX 4.0 will only install and run on servers with 64-bit x86 CPUs.

-Known 64-bit processors:
-All AMD Opterons support 64 bit.

...

RAM
2GB RAM minimum
Network Adapters

...

-Intel PRO 1000 adapters

QUESTION 3

The default swap partition size for ESX 4.0 is which of the following?

- A. 600MB
- B. 1.6GB
- C. 800MB
- D. 544MB

Answer: A

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Mastering VMware vSphere 4 Page 25.

'As a general rule, swap files are created with a size equal to at least two times the memory allocated to the operating system. The installation process allocates a default amount of 300MB of memory for the Service Console; therefore, the default swap partition size would be 600MB.'

QUESTION 4

The ESX 4.x Service Console Virtual Disk can be located on (Choose Two):

- A. a VMFS datastore on software iSCSI attached storage
- B. a VMFS datastore on non-shared FC attached storage
- C. a VMFS datastore on locally attached storage
- D. an NFS datastore

Answer: BC

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Everyone at this point should be aware that the Service Console is now located in a vmdk on a VMFS partition. The Service Console vmdk must be stored on a vmfs datastore and the datastore must either be local storage or SAN storage that is only presented to the one host

Fibre Channel, or FC, is a gigabit-speed network technology primarily used for storage networking

Getting Started with ESX, ESX 4.0, vCenter Server 4.0, page 6

ESX Hardware Requirements

* SCSI Adapter, Fibre Channel Adapter, or Internal RAID Controller

QUESTION 5

An ESX Administrator plans to install additional supported components on the ESX Server that would increase the memory requirements for the Service Console. Which ESX Server partition would also need to be increased during installation as a result?

- A. /boot
- B. /
- C. vmfs3
- D. swap

Answer: D

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Mastering VMware vSphere 4 Page 25.

'As a general rule, swap files are created with a size equal to at least two times the

memory allocated to the operating system. The installation process allocates a default amount of 300MB of memory for the Service Console; therefore, the default swap partition size would be 600MB. '

QUESTION 6

Which of the following partitions is specific to ESXi 4.0?

- A. usr
- B. swap
- C. vmkcore
- D. scratch

Answer: D

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Best Practices for vSphere (ESX 4) Service Console Partitions

The following Custom Partitioning Design is recommended:

Mount Point Type Size
/ ext3 5.0GB

Swap 1600MB
/home ext3 512MB
/tmp ext3 2.0GB
/vmimages ext3 512MB
/var ext3 2.0GB

The installer also automatically creates the following partitions without displaying them:

/boot ext3 260MB
Vmkcore 100MB

* Upgrade to ESX 3.5 on systems with separate /usr partition requires manual intervention

Since ESX 4 and 3.5 can use all of the above partitions, the only partitions that can be specific to ESXi 4.0 is /scratch.

QUESTION 7

Which partitions would change the default partition size for /?

- A. /tmp
- B. /home
- C. /usr
- D. /var/log

Answer: C

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

ESX and vCenter Server Installation Guide ESX 4.0, vCenter Server 4.0, page 61.

ESX Required Partitions

Mount Point Type Size

/ ext3 *

* Calculated dynamically based on the size of the /usr partition. By default, the minimum size is 5GB and no /usr partition is defined

QUESTION 8

The ESX Service Console file system structure should (Choose Two):

- A. provide separate mount points for /tmp, /var/log and /home
- B. avoid filling /
- C. avoid filling /home
- D. provide separate mount points for /tmp, /var/log, /home and /etc

Answer: AB

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

The following Custom Partitioning Design is recommended:

The / (or "root") partition stores the ESX system and all files not stored in another custom partition. If this partition is filled to capacity, the ESX host could crash. It is imperative to prevent this.

QUESTION 9

The /boot partition requires how much free space?

- A. 1.5GB
- B. 2GB
- C. 1GB
- D. 1.25GB

Answer: D

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Explanation:

ESX and vCenter Server Installation Guide ESX 4.0 vCenter Server 4.0, page 61

Table 7-1. ESX Required Partitions

Mount Point	Type	Size	Location	Partition Description
/boot	ext3	The ESX boot disk requires 1.25 GB of free space and includes the /boot and vmkcore partitions. The /boot partition alone requires 1100MB.		

Note: the question would be better worded if it referred to /boot disk instead of /boot partition

QUESTION 10

Your boss wants you to install vSphere 4 server on two HP C-class Blades. Each blade has two dual core CPU's. How many vSphere processor licenses will be needed for this setup?

- A. 4
- B. 12
- C. 2
- D. 8

Answer: A

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

ESX and vCenter Server Installation Guide, ESX 4.0, vCenter Server 4.0, page 108.

'License keys have a certain amount of capacity. Capacity is based on the number of

processors in the host or the number of instances of the software asset. Dual-core and quad-core processors, such as Intel processors that combine two or four independent CPUs on a single chip, count as one processor.'

Therefore since there will be 4 CPUs in total, 4 licenses are required.

QUESTION 11

By default ESX 4 Web Access is enabled;

- A. True
- B. vSphere 4 does not have Web Access
- C. False

Answer: C

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

VMware Knowledge Base KB 1011921

Cannot log in to an ESX 4 host with vSphere Web Access

Web Access to ESX 4 is disabled by default.

QUESTION 12

What is the recommended size for the /var/log partition?

- A. 2048MB
- B. 512MB
- C. 2000MB
- D. 1024MB

Answer: C

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Mastering VMware vSphere 4, page 25.

'The /var/log partition is where the Service Console creates log files during the normal course of operation. This partition is created with the default size of 2000MB, or 2GB of space.'

QUESTION 13

The Service Console must be installed on a VMFS partition?

- A. True
- B. False

Answer: A

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

vSphere Upgrade Guide, ESX 4.0, ESXi 4.0, vCenter Server 4.0, vSphere Client 4.0, page 69.

After the upgrade to ESX 4.0, the service console's partitions are stored in a .vmdk file. All .vmdk files, including the esxconsole.vmdk, are stored in VMFS volumes.

QUESTION 14

What is the minimum number of network adapters required for an ESX4 Host?

- A. 4
- B. 2
- C. 3
- D. 1

Answer: D

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Getting Started with ESX, ESX 4.0, vCenter Server 4.0, page 6.
ESX Hardware Requirements --- **!!! Network Adapters !!!**

QUESTION 15

vSphere 4 Client minimum requirements are;

- A. 3GHz CPU, 2GB RAM, 2GB HDD space
- B. 500MHz CPU, 200MB RAM, 1GB HDD space
- C. 266MHz CPU, 2GB RAM, 2GB HDD space
- D. 266MHz CPU, 200MB RAM, 1GB HDD space

Answer: D

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Minimum Requirements for the vSphere Client

* CPU - 1 CPU

* Processor - 266MHz or faster Intel or AMD processor (500MHz recommended).

* Memory - 200MB RAM

* Disk Storage - 1GB free disk space for a complete installation

QUESTION 16

What is the maximum supported limit of RAM that a vSphere Host can have, regardless of Licence editions?

- A. 265GB
- B. 2TB
- C. 1TB
- D. 255GB

Answer: C

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Memory Maximums

Size of RAM per host **1TB**

QUESTION 17

What is the maximum amount of vNIC's that a vSphere Guest can have?

- A. 4
- B. 10
- C. 1

D. 2

Answer: B

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Table 1. Virtual Machine Maximums
Virtual NICs per virtual machine **10**

QUESTION 18

What is the recommended size for the /home partition?

- A. 256MB
- B. 1024MB
- C. 512MB
- D. 1200MB

Answer: C

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

ESX and vCenter Server Installation Guide ESX 4.0, vCenter Server 4.0, page 62.

ESX Optional Partitions
Mount Point Type Recommended Size
/home ext3 512MB

QUESTION 19

What is the minimum supported amount of RAM for an ESX4 Host?

- A. 4GB
- B. 1GB
- C. 2GB
- D. 3GB

Answer: C

Section: 1. Plan, Install and Upgrade VMware ESX/ESXi (119)

Explanation/Reference:

Getting Started with ESX, ESX 4.0, vCenter Server 4.0, page 6.
ESX Hardware Requirements

RAM

* 2GB RAM minimum

QUESTION 20

ESX Service Console patches should be applied (Choose Two):

- A. as instructed by VMware authorized technical support personnel
- B. as Red Hat makes patches available
- C. when an issue is identified
- D. as VMware makes patches available

Answer: AD