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**QUESTION 1**

A systems administrator is reviewing two CPU models for a cloud deployment. Both CPUs have the same number of cores/threads and run at the same clock speed.

Which of the following will BEST identify the CPU with more computational power?

- A. Simultaneous multithreading
- B. Bus speed
- C. L3 cache
- D. Instructions per cycle

Correct Answer: D

Instructions per cycle (IPC) is a metric that measures how many instructions a CPU can execute in one clock cycle. IPC can help identify the CPU with more computational power when comparing two CPU models that have the same number of cores/threads and run at the same clock speed, as it indicates the efficiency and performance of the CPU architecture and design. A higher IPC means that the CPU can process more instructions in less time, resulting in faster and better performance. References: CompTIA Cloud+ Certification Exam Objectives, page 9, section 1.4 Reference: https://en.wikipedia.org/wiki/Central_processing_unit

QUESTION 2

A user reports a poor-quality remote VDI session. Which of the following should the help desk technician do FIRST to troubleshoot the issue?

- A. Check the FAQ section of the vendor's documentation.
- B. Ask the user if the client device or access location has changed.
- C. Reboot the user's virtual desktop.
- D. Request permission to log in to the device remotely.

Correct Answer: B

Asking the user if the client device or access location has changed is what the help desk technician should do first to troubleshoot poor-quality remote VDI (Virtual Desktop Infrastructure) session. VDI is a technology that allows users to access virtual desktops hosted on remote servers over a network or internet connection. VDI can provide users with flexibility, mobility, and security, but it may also introduce quality issues depending on various factors, such as: The client device: This is the device that users use to access their virtual desktops, such as a laptop, tablet, smartphone, etc. The client device can affect VDI quality by determining how well it can support and display virtual desktop applications and services, as well as how fast it can process and send data over a network or internet connection. The access location: This is where users access their virtual desktops from, such as home, office, public place, etc. The access location can affect VDI quality by determining how stable and secure their network or internet connection is, as well as how much latency or interference they may experience. Asking the user if these factors have changed can help to troubleshoot poor-quality remote VDI session by identifying any potential causes or sources of quality issues, as well as suggesting any possible solutions or alternatives.

**QUESTION 3**

A company hosts its server in a public IaaS cloud. The company's management decides to migrate the servers to a different geographical region that is closer to the user base. A cloud administrator creates a new environment in that geographical region. Which of the following is the BEST way to migrate the VM from the original geographic region to the new region?

A. 1. Create a full backup of the VM.

2.

Copy the backup files into the new region using FTP.

3.

Restore the VM from the backup files.

B. 1. Create a VM image.

2.

Export the VM image to the new region using vendor's tools.

3.

Deploy a new VM based on the created image.

C. 1. Create a VM clone.

2.

Copy the clone into the new region using FTP.

3.

Apply the network and security groups from the new region to the cloned VM and start it.

D. 1. Create a new VM in the new region.

2.

Restore a full-system backup from the original VM.

3.

Apply the network and security groups from the original region to the new VM.

Correct Answer: D

QUESTION 4

Some VMs that are hosted on a dedicated host server have each been allocated with 32GB of memory. Some of VMs are not utilizing more than 30% of the allocation. Which of the following should be enabled to optimize the memory utilization?



- A. Auto-scaling of compute
- B. Oversubscription
- C. Dynamic memory allocations on guests
- D. Affinity rules in the hypervisor

Correct Answer: C

Enabling dynamic memory allocations on guests is the best option to optimize memory utilization for VMs that have been allocated with 32GB of memory but are not utilizing more than 30% of it. Dynamic memory allocation is a feature that allows a VM to adjust its memory usage according to its workload and demand, without requiring a reboot or manual intervention. Dynamic memory allocation can help to improve memory utilization and efficiency by allocating more memory to VMs that need it and releasing memory from VMs that do not need it.

QUESTION 5

A company is using an IaaS environment. Which of the following licensing models would BEST suit the organization from a financial perspective to implement scaling?

- A. Subscription
- B. Volume-based
- C. Per user
- D. Socket-based

Correct Answer: D

Reference: <https://www.fingent.com/blog/cloud-service-models-saas-iaas-paas-choose-the-right-one-for-your-business/>

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