

## EE4221 Lecture 4 Questions

### VDC Compute - Resource Management

Q1. What parameter determines the maximum amount of resource that a virtual machine can consume?

- a. Share
- b. Limit \*\*
- c. Reservation
- d. Priority

Q2. Which technology enables a physical CPU to appear as two or more logical CPUs?

- a. Hyper-threading \*\*
- b. Multi-core
- c. Load balancing
- d. Ballooning

Q3. Which optimization technique is used to detect identical pages in the memory?

- a. Transparent page sharing \*\*
- b. Memory ballooning
- c. Memory swapping
- d. Cache flushing

Q4. A server has a 3GHz CPU and a memory size of 16GB. This server is running a virtualization software. Can a VM with a 2GHz CPU and a memory size of 16GB be configured on this server?

- a. Yes
- b. No \*\*

## VDC Storage

Q1. What is used to create secondary cache in cache tiering mechanism?

- a. DRAM
- b. FC drive
- c. Solid state drive \*\*
- d. SATA drive

Q2. When is thin LUN preferred over traditional LUN?

- a. Performance is predominant
- a. Security is more important
- b. Storage space efficiency is paramount \*\*
- c. High availability is predominant

Q3. Go to web and find what is a symbolic link. In Windows OSs, symbolic links are supported in the form of:

- a. Symbolic files
- b. Shortcut files \*\*
- c. Link files
- d. None of the above

Q4. A storage system with 3TB capacity is in consideration. It has three LUN being configured:

LUN1: allocated capacity of 500GB, and of which 100GB is being used  
LUN2: allocated capacity of 1000GB, and of which 500GB is being used  
LUN3: allocated capacity of 800GB, and of which 500GB is being used

If the storage system uses a traditional provisioning, what is the available capacity of the storage system?

- a. 700GB \*\*
- b. 1900GB
- c. 3TB
- d. None of the above

Q5. A storage system with 3TB capacity is in consideration. It has three LUN being configured:

LUN1: allocated capacity of 500GB, and of which 100GB is being used  
LUN2: allocated capacity of 1000GB, and of which 500GB is being used  
LUN3: allocated capacity of 800GB, and of which 500GB is being used

If the storage system uses a virtual provisioning, what is the available capacity of the storage system?

- a. 700GB
- b. 1900GB \*\*
- c. 3TB
- d. None of the above

Q6. What is the benefit of using Thin Pool Rebalancing?

- a. To improve speed performance \*\*
- b. To improve redundancy performance
- c. To improve security performance
- d. To reduce probability of disk failures

#### VDC Networking - Networking Infrastructure

Q1. What is a benefit of network virtualization?

- a. Enhanced storm control
- b. Increased resource acquisition
- c. Improved manageability \*\*
- d. Better policy control

Q2. A virtual switch can connect to a physical switch by:

- a. a virtual NIC
- b. a physical NIC \*\*
- c. a virtual HBA
- d. a physical HBA

Q3. A virtual switch connects to 3 VMs, namely VM1, VM2 and VM3. An Ethernet frame is sent from VM1 to the virtual switch (with source address MAC-VM1 and destination address MAC-VM3). Which VM(s) will this frame be sent to by the virtual switch?

- a. VM2
- b. VM3
- c. Both VM2 and VM3
- d. It depends on the switching table of the virtual switch \*\*

Q4. What is the benefit of connecting multiple physical NICs to a virtual switch?

- a. To improve network speed
- b. To improve network availability
- c. Both a & b \*\*