

Exam Code: 000-084

Exam Name: Modular Systems High Performance Servers

Vendor: IBM

Version: DEMO

Part: A

1: A manufacturing customer has a small SAN with both LINUX and Windows servers attached to a DS4300 storage server through redundant fabric. Which of the following is the most important consideration for proper function?

- A.Utilization of the interswitch links between the redundant switches
- B.Enablement of multi-OS Storage Partitioning feature on DS4300
- C.50u multi-mode Fibre for 2Gb operation
- D.RAID level of the array on the DS4300

Correct Answers: B

2: A Modular System specialist is monitoring performance on a server. The data is on another partition within the same array as the OS. The following information is available:

- The average record written to disk is 16KB
- The I/O block size is 2KB
- The stripe size on the RAID array is 16KB

Which of the following will improve performance without rebuilding the operating system?

- A.Change the I/O block size to match the RAID Stripe size.
- B.Change the RAID stripe size to match the I/O block size.
- C.Change the record size of the database to match the RAID stripe size.
- D.Change the record size of the database to match the I/O transfer rate.

Correct Answers: A

3: A small bio-technical company is interested in implementing a 32-node Linux cluster. They have developed their own software that allows all of the nodes to work on the same problem at the same time. The application requires messages to be passed between the nodes. Each node will require access to a shared storage pool of around 500GB. Which of the following questions will identify the inter-process communication (IPC) networking requirements?

- A.Is the network capable of using 4x or 12x Infiniband?
- B.Will remote shell (rsh) be enabled for remote process initiation?
- C.What are the data transfer requirements for inter-node message passing?
- D.What type of data is being sent across the inter-process communication network?

Correct Answers: C

4: A retail company needs to connect seven of their Windows-based servers to a DS4000 storage server. The DS4000 only has two host-side connections, and each server has two HBAs. Which of the following is the lowest cost solution to provide no single points of failure?

- A.Implement two 8-port switches design with ISLs
- B.Implement two 16-port switches design with ISLs
- C.Implement two 8-port switches design without ISLs
- D.Implement two 16-port switches design without ISLs

Correct Answers: C

5: A construction customer is looking for the lowest-cost system that to use for existing 32-bit

applications and 64-bit test applications. The customer is considering the IBM, HP, or Dell-comparable models. Which of the following is the primary advantage of the x3850 over the competition?

- A. Onboard RAID capable
- B. Onboard systems management
- C. Enterprise X-Architecture (EXA)
- D. Integrated Dual Gigabit Ethernet

Correct Answers: C

6: An automotive supplier maintains CAD workstations in widely separated plant locations, and these locations are interconnected by single 1.5Mb/second communication lines. A consultant has been asked to provide a solution that will allow back-ups to be centralized in one location and improve data recovery times. Which of the following questions should the consultant ask first to determine the best solution?

- A. What format are the CAD documents?
- B. Can the communication lines be upgraded to a higher service level economically?
- C. What are the current acceptable windows for back up and restore?
- D. Are the plants within line-of-sight to enable wireless communication?

Correct Answers: C

7: A retail customer wants to deploy VMWare ESX on a scalable Intel system. They are considering IBM and Dell. Which of the following is an advantage IBM has over the competition?

- A. IBM provides the ability to expand up to 4 nodes.
- B. The IBM Modular Systems EXA chipset has extensions to provide better efficiency for the VMFS file system.
- C. IBM servers can address larger LUNs on SAN storage than Dell.
- D. IBM provided VMWare with the majority of their internal drivers for ESX.

Correct Answers: A

8: A manufacturing customer purchased a new IBM Modular Systems x445. They already have a non-IBM industry standard rack with 14U of open space that is being considered to house the new server. The rack houses an existing UPS unit for the entire rack. Which of the following questions is most important to ensure that the power in the datacenter environment is ready for the initial install?

- A. Have optional Fibre Channel and Ethernet switches been installed in the server?
- B. What is the available kVA value of the UPS?
- C. Are there sufficient empty socket outlets in the UPS?
- D. What is the impact on the power consumption of the data center cooling system?

Correct Answers: B

9: A retail customer needs to install a database on a server. Which of the following statements describes how to modify the RAID configuration for optimal performance?

- A. Place both the database and transaction log on two logical drives in one RAID-10 array
- B. Place both the database and transaction log on two logical drives in one RAID-1E array.

C.Place the database on a RAID-1E array and place the transaction log on a separate RAID-5 array

D.Place the database on a RAID-5 array and place the transaction log on a separate RAID-1 array

Correct Answers: D

10: A banking customer has a mixed Dell and IBM server environment. They want to implement a system management solution for all their Windows, Linux, and VMWare ESX Intel based servers. Which of the following features of IBM Director will be an advantage for this customer?

A.Free Aurema and SteelEye software plug-ins

B.Supports non-IBM industry standard Intel based servers

C.Servers can be managed from within the MS Performance Monitor

D.Requires no agents to be installed and run on the IBM systems

Correct Answers: B

11: An x3950 can withstand up to two failed memory chips per memory port. In addition, the customer requires protection for a third memory chip failure on that port. Which XA-64e feature will provide this extra level of protection?

A.Chipkill

B.Memory Mirroring

C.Hot Spare Memory

D.Memory ProteXion

Correct Answers: B

12: A customer has a database application that is accessed by a large number of people through a web interface from multiple remote locations. Which of the following questions will provide the information necessary to design the best performing storage solution?

A.How many web servers will be connected to the database?

B.Will the database be run on a Windows solution?

C.How many concurrent users will be accessing the database?

D.What are the types of transactions run against the database?

Correct Answers: D

13: A retail customer has 20 new IBM System x3850s and five blade chassis's. Each blade chassis has three blades. Windows 2000 server is installed on all of these servers. The customer also has an IBM System x3400 and just installed IBM Director server and Director console to monitor all the IBM servers. Now the customer is calling IBM complaining that the IBM Director server can discover the 5 blade chassis's, but cannot discover all of the x3850s.

Which of the following is the FIRST item to check when determining the root cause?

A.The IBM Director console has not been installed in the managed IBM servers.

B.The IBM Director agents have not been installed in the IBM servers.

C.Then necessary IBM Director patches have not been installed in the IBM servers.

D.The IBM Director server has not been installed in the IBM servers.

Correct Answers: B

14: How many memory expansion cards should be installed to maximize the memory performance of the x3800 x3850 or x3950?

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

Correct Answers: D

15: A publisher is considering x3950 servers. Which of the following are the memory characteristics of the x3950?

- A.Hot-Add Memory
- B.DDR SDRAM
- C.Hyper-Threading Memory
- D.2nd-generation Chipkill memory

Correct Answers: A

16: A retail customer needs the ability to recover their data if a total system failure occurs. Which is the most important consideration in determining the solution?

- A.Network utilization
- B.Total amount of storage installed
- C.Amount of open files in the backup
- D.Amount of critical data in the backup or restore

Correct Answers: D

17: A company wants to consolidate 20 existing dual processor Pentium III servers, all running a web server application on Windows Server 2003. They are considering consolidating to a single x3950 running VMWare ESX. Which of the following questions will help determine the correct processor configuration?

- A.Do the web servers require SMP capability?
- B.Is the web content static or dynamic information?
- C.What is the average CPU utilization of the existing web servers?
- D.Will the servers need a SCSI or Fibre Channel storage solution?

Correct Answers: C

18: An application vendor wants to choose a fault tolerant platform for their new application. The application benefits from multiple processors and has been tested on Red Hat Advanced Server 3. Which of the following is the best procedure to determine the memory requirements for the application?

- A.The application should be tested and baselines should be measured with simulated user loads.
- B.The application should be tested with the minimum amount of memory then increase the memory in increments until an acceptable response is achieved.
- C.The application should be tested with differing amounts of memory and the fastest response time is reached it should be used as the acceptable configuration.
- D.The application should be tested with the maximum amount of memory then decrease the

memory in increments until an acceptable price/performance ratio is reached.

Correct Answers: A

19: A small bio-technical company is planning for a database server for high volume online business. Any downtime means significant loss of revenue and poor customer satisfaction. They ask for a 4-way configuration with 8GB RAM and four gigabit Ethernet connections.

Which of the following solutions meets these requirements?

A.x445 4-way Xeon DP machine using 16 x 512MB DIMMS, ServeRAID 6M adapter and Ultra320 15K disk drives in a RAID-1 set with an additional two BroadCom gigabit NICs

B.x366 4-way Xeon MP machine using 16 x 512MB DIMMS, ServeRAID 6M adapter and Ultra320 15K disk drives in a RAID-1 set with an additional two Intel gigabit NICs

C.x445 4-way Xeon MP machine using 16 x 512MB DIMMS, ServeRAID 6M adapter and Ultra320 15K disk drives in a RAID-1 set with an additional two BroadCom gigabit NICs

D.x445 4-way Xeon DP machine using 16 x 512MB DIMMS, ServeRAID 6M adapter and Ultra320 15K disk drives in a RAID-1 set with an additional two Intel gigabit NICs

Correct Answers: C

20: A customer wants to run VMWare ESX on an x3950 with a large number of virtual machines running Windows 2003 Server as a Disaster Recovery (DR) Site for the production environment.

Which would be the most important question to ask concerning the memory configuration?

A.What version of VMWare ESX Server is being considered?

B.Do the systems currently use Double Data Rate (DDR) memory?

C.What is the total number of processors installed in the production systems?

D.What is the total amount of memory currently being used across all the production systems?

Correct Answers: D