



VMware

VDCD510

VMware Certified Advanced Professional - Datacenter Design

QUESTION: 269

You are a platform designer constructing a physical design from an existing approved logical design. Out of the vendor proposals, there are two proposed solutions that could be used. Which of the following options is the most important factor when making a decision?

- A. Community and vendor-based best practices
- B. Existing vendor relationships
- C. Project requirements
- D. Project budget

Answer: C

QUESTION: 270

You have been asked to design a virtual machine for a new application developed in-house. The application will be load tested before it is finally made production ready. The application developers have created documentation based on data flow and entity dependency. The functionality of the application is critical to the business for a defined project with a client base of a maximum of 12,000 users. Which of the following scaling approaches would best suit this scenario?

- A. Predictive
- B. Adaptive

Answer: A

QUESTION: 271

You are a virtualization consultant at a company that develops its own inhouse website trading systems. The new website will be deployed in a vSphere 5 platform, which consists of two clusters and four ESXi hosts (one for each project—the SDLC hosts—for all levels of testing and development prior to production deployment).

The production cluster has been configured for fully automated DRS and VMware H A. During the SDLC, the website platform was developed on a single development ESXi host inside a single VLAN. The system was successfully tested within the SDLC ESXi hosts and then deployed to the production cluster in a single vApp and a single VLAN. Following a successful midweek, the new application starts to show signs of latency. Suddenly several applications across the cluster are being impacted by network latency issues. Metrics are collected and show that the amount of network traffic between the database and application servers of the new website platform are at 96% utilization on the physical switch links between ESXi hosts in the production cluster. What should you do?

- A. Recommend that the website platform be fixed and removed from the production system.
- B. Create a DRS affinity rule to ensure that the database and applications servers stay on the same ESXi host and do not traverse the physical network when communicating.
- C. Configure Network I/O Control to ensure that the network latency is alleviated between the database and applications servers.

Answer: B

QUESTION: 272

You are working on a project to deploy a critical multitier web application. The application is as follows:

Number of Servers	Server Role	Memory Allocation	CPU Allocation	Disk Allocation
20	Web	8 GB	2 vCPU	80 GB system, 150 GB data
5	Processing	2 GB	2 vCPU	80 GB system, 50 GB data
2	Database	32 GB	8 vCPU	80 GB system, 300 GB logs, 500 GB data

In the scenario described, the SAN space is limited. Which of the following options would help save space while still providing the infrastructure shown above?

- A. Confirm that 80 GB is actually used on the servers in each tier and configure thin provisioning to save space.
- B. Reduce the amount of memory in each web server by 2 GB to reduce the amount of swap space created.
- C. Create a resource pool hierarchy for the web, processing, and database tiers in the application and configure a reservation for the total amount in each tier. This would reduce the amount of space used within the datastore.

Answer: C

QUESTION: 273

You are working on a project to deploy a critical multitier web application. The application is as follows:

Number of Servers	Server Role	Memory Allocation	CPU Allocation	Disk Allocation
20	Web	8 GB	2 vCPU	80 GB system, 150 GB data
5	Processing	2 GB	2 vCPU	80 GB system, 50 GB data
2	Database	32 GB	8 vCPU	80 GB system, 300 GB logs, 500 GB data

In the scenario described, which of the following would be a good design choice for memory management in the vSphere platform?

- A. Configure each web server in the application to have a limit of 4 GB.
- B. Create a business-as-usual task to monitor the usage and increase it as required.
- C. Configure a DRS affinity rule to split 50% of the web servers between two hosts.
- D. Configure web servers to have high share values.

Answer: B

QUESTION: 274

You are working on a project to deploy a critical multitier web application. The application is as follows:

Number of Servers	Server Role	Memory Allocation	CPU Allocation	Disk Allocation
20	Web	8 GB	2 vCPU	80 GB system, 150 GB data
5	Processing	2 GB	2 vCPU	80 GB system, 50 GB data
2	Database	32 GB	8 vCPU	80 GB system, 300 GB logs, 500 GB data

In the scenario described, which of the following would be a good alternate design choice to discuss with the vendor/web development team?

- A. Consider consolidating the database servers into one large server for ease of management, backup, and licensing costs.
- B. Consider creating a file server with UNC file shares presenting the read-only data for web servers. This would reduce the amount of space required from approximately 3 TB to approximately 150 GB.
- C. Reduce the specifications of each web server and increase the number of servers to distribute the load more widely across the cluster.

Answer: B

QUESTION: 275

Entry criteria should be included in all areas of documentation designed for implementation and validation.

- A. True
- B. False

Answer: A

QUESTION: 276

A validation plan should be based on estimated workloads and user behavior.

- A. True
- B. False

Answer: B

QUESTION: 277

A validation plan is used to do which of the following? (Select all that apply.)

- A. Verify the design
- B. Verify that the system is functional
- C. Verify that the system meets requirements
- D. Meet current best practices

Answer: A, B, C

QUESTION: 278

vSphere cluster functionality such as DRS and HA does not need to be part of a validation plan. This kind of documentation is only concerned with guest VM workload validation, not platform-wide validation.

- A. True

B. False

Answer: B

QUESTION: 279

The technical approach and order of delivery can have an impact on which of the following? (Select all that apply.)

- A. Overall delivery time
- B. People resource contention (right person, right time, right task)
- C. Validation phase duration

Answer: A, B, C

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