

## VMware.3V0-21.21.v2021-08-19.q21

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| <b>Exam Code:</b>   | 3V0-21.21                          |
| <b>Exam Name:</b>   | Advanced Design VMware vSphere 7.x |
| <b>Certification Provider:</b>  | VMware                             |
| <b>Free Question Number:</b>  | 21                                 |
| <b>Version:</b>   | v2021-08-19                        |
| <b># of views:</b>  | 283                                |
| <b># of Questions views:</b>  | 1360                               |
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### NEW QUESTION: 1

An architect is designing a new vSphere environment with the following resources:

600 vCPU

5,760 GB RAM

Average resource usage is:

60 vCPU

1,152 GB RAM

The design must meet the following requirements:

The environment has the ability to burst by 25%.

Each host can schedule 36 vCPUs and has 512 GB RAM.

Management overhead is 20%.

What is the minimum number of hosts required to meet the design requirements?

- A. Five
- B. Four
- C. Three
- D. Two

**Answer: (SHOW ANSWER)**

### NEW QUESTION: 2

In a meeting to discuss the minimum viable product (MVP) deployment of a new customer-facing application, the key stakeholder shares details of the application components and the application administrators share details of performance and integrity tests for the application.

The application will be made up of the following components:

A web server

- Steps to confirm the web server is operating correctly will take 15 minutes after the application server is online.

An application server

- Steps to confirm application server integrity will take 15 minutes after the database is online.

A database server

- The database server will be managed by a database administrator, with an agreed service-level agreement (SLA) to restore and validate database services within one hour. The existing VMware infrastructure offers a recovery point objective (RPO) of 5 minutes and recovery time objective (RTO) of 15 minutes through a combination of backups and replication.

In the event of an outage impacting all three application components, how long will it take for the application to recover and complete all checks?

- A. 105 minutes
- B. 60 minutes
- C. 90 minutes
- D. 15 minutes

**Answer: ([SHOW ANSWER](#))**

### **NEW QUESTION: 3**

An architect is designing storage for a new vSphere environment to meet the following requirements:

Asynchronous replication is required between two sites.

The impact on the storage layer should not impact the performance of the compute layer.

Each application tier will require different replication attributes.

Virtual machine live migration across compute and storage must be supported.

Virtual machine aware back up will be leveraged.

Operational management overhead should be minimized.

Operational automation should be supported.

Which storage design recommendations would meet the requirements?

- A.** Two new vSphere clusters enabled with vSAN will be deployed, one at either site. vSAN will be used to provide policy-based management for each application tier. vSphere Replication will be used to replicate the virtual machine data in an asynchronous configuration.
- B.** Two new iSCSI storage arrays will be deployed, one at either site. Each application tier will be initially provisioned a new LUN. Data replication will be offloaded to the new arrays.
- C.** Two new Fibre Channel storage arrays will be deployed, one at either site. Each application tier will be initially provisioned a new LUN. Data replication will be offloaded to the new arrays.
- D.** Two new storage arrays will be deployed, one at either site. vSphere Volumes (vVOLS) will be used to provide policy-based management for each application tier. Data replication will be offloaded to the new arrays.

**Answer: C ([LEAVE A REPLY](#))**

**NEW QUESTION: 4**

The Chief Operating Officer (COO) at an organization raises concerns that their virtual infrastructure environment is vulnerable. Recently, a security-related issue with a virtual machine caused all management services to become unavailable. No budget is available in the short term for additional platform investment. An architect is asked to review the current environment and make recommendations to mitigate concerns.

A virtualization administrator has provided the following details:

There is a single four node cluster of ESXi servers

There are two, Layer 2, physical network switches connecting resources

The data center network is presented as a single /16 subnet

Given the information provided, which functional requirement should the architect include in the design to mitigate the COOs concerns?

- A.** The virtual infrastructure environment must connect management services to a vSphere standard switch (VSS)
- B.** The virtual infrastructure environment must connect application virtual machines and management services to separate VLANs
- C.** The virtual infrastructure environment must connect application virtual machines and management services to new physical network switches
- D.** The virtual infrastructure environment must connect application virtual machines and management services to separate distributed virtual switches (DVS)

**Answer: ([SHOW ANSWER](#))**

**NEW QUESTION: 5**

An architect is designing a new VMware solution for a customer that has a number of different resource profiles.

The following are the business requirements for the design:

The solution must support virtual machines with the following storage profiles:

- Write-intensive
- Backup
- Write-Once-Read-Many (WORM) archive

The solution must support migration of virtual machine disks between storage profiles.

The WORM archive data must be located at an isolated secure site.

The backup storage array must only be connected to a backup media server.

All data should be recoverable from backup.

Which design decision should the architect make to meet the business requirements?

- A.** The solution will leverage the same array for the backup and write-intensive storage profiles
- B.** The solution will leverage a single storage array for all storage profiles

C. The solution will leverage a single storage array for the WORM archive and write-intensive storage profiles

D. The solution will leverage a different array for each storage profile

**Answer: D (LEAVE A REPLY)**

### **NEW QUESTION: 6**

An architect is preparing a design for a company planning digital transformation. During the requirements gathering workshop, the following requirements (REQ) and constraints (CON) are identified:

REQ01 The platform must host different types of workloads including applications that must be compliant with internal security standard.

REQ02 The infrastructure must initially run 100 virtual machines.

REQ03 Ten of the virtual machines must be compliant with internal security standard.

REQ04 The internal security standard specifies logical network separation for in-scope applications.

CON01 The customer has already purchased the licenses as part of another project.

CON02 The customer has five physical servers that must be reused.

Additionally, based on resource requirements, four physical servers will be enough to run all workloads. Which recommendation should the architect make to meet requirements while minimizing project costs?

A. Use a single cluster and configure DRS anti-affinity rules to ensure internal security compliant virtual machines cannot migrate between ESXi hosts.

B. Use Network I/O Control to ensure the internal security zone has higher share value

C. Purchase additional servers and plan separate, isolated clusters for workloads that must be compliant with internal security

D. Use a single cluster and ensure that different security zones are separated at least with dedicated VLANs and firewall

**Answer: A (LEAVE A REPLY)**

### **NEW QUESTION: 7**

During a requirements gathering workshop, the customer's Chief Information Security Office (CISO) provides the following requirements that are pertinent to the design of a new vSphere environment:

All operating system critical patches must be installed within 24 hours of release.

All virtual machine templates must be updated every three months in line with company policy.

Which requirement classification is being gathered for the design documentation?

A. Manageability

B. Security

C. Recoverability

D. Availability

**Answer: A ([LEAVE A REPLY](#))**

### **NEW QUESTION: 8**

An architect will be taking over control of a former Linux server fleet and repurposing the hardware into a new vSphere cluster. The current environment is already connected to the network but the hosts do not have any local disks. Since the fleet hardware is uniform, the architect can use a single ESXi image. All hosts within the cluster have the same CPU and memory capacity.

Which ESXi deployment method should the architect use?

- A.** Stateless vSphere Auto Deploy
- B.** Stateless cached vSphere Auto Deploy
- C.** Stateful vSphere Auto Deploy
- D.** Manual install of each ESXi host with an image from USB

**Answer: ([SHOW ANSWER](#))**

### **NEW QUESTION: 9**

An architect is reviewing a physical storage design. The customer has specified that storage DRS will be used for ease of operational management for capacity and performance.

Which recommendation should the architect include in the design?

- A.** Create larger datastores to balance space with Storage DRS
- B.** Create smaller datastores to balance space with Storage DRS
- C.** Use a larger number of storage profiles (varied disk speeds and RAID levels) to improve performance
- D.** Create more datastores within each Storage DRS cluster to balance space and performance

**Answer: D ([LEAVE A REPLY](#))**

### **NEW QUESTION: 10**

An architect is tasked with designing a greenfield VMware software-defined data center (SDDC) solution that will be used to deliver a private cloud service for a customer.

During the initial meeting with the service owner and business sponsor, the customer has provided the following information to help inform the design:

The solution must initially support the concurrent running of 300 production and 600 development virtual machines.

The production environment should be delivered across two geographically dispersed data centers. The development environment must be vSphere-based but does not have to be deployed on-premises.

The two data centers are connected to each other through multiple diversely routed, high bandwidth and low latency links.

The customer's server hardware standard document states that all virtual infrastructure hosts must be based on blade architecture only.

The service owner has said that is important to ensure that neither the availability target of 99.5% nor the resource capacity is affected when the operations team completes maintenance activities, such as the monthly software patching and ad-hoc hardware break/fix.

All virtual machine backups must be completed using the existing backup service. The recovery time objective (RTO) for the service is four hours.

The recovery point objective (RPO) of the service is 24 hours.

Given the information from the customer, which two would be classified as assumptions within the design? (Choose two.)

- A. All virtual machines will be deployed with the same resource profile for production and development
- B. The backup service has sufficient capacity for the new requirements
- C. The customer will update their hardware standard to support rack mount servers
- D. The clusters will have a minimum redundancy of N+1
- E. The backup service will store data in a secure facility

**Answer: C,E (LEAVE A REPLY)**

#### **NEW QUESTION: 11**

An architect is tasked with reviewing the design of a VMware software-defined data center (SDDC) for a software development company. The platform is used to developing applications and services. It is important that the customer be able to accurately benchmark performance of developed applications.

The platform has recently commissioned new hosts to update the development cluster.

The development cluster host configuration is:

4 ESXi hosts with 2 sockets × 16 cores

512 GB RAM divided evenly between sockets

There is no resource contention

The benchmarking cluster host configuration is:

8 ESXi hosts with 2 sockets × 8 cores

256 GB RAM divided evenly between sockets

There is no resource contention

The customer is developing an application that includes a database virtual machine. The application developer states that the database virtual machine performs as required only when allocated 8 vCPUs 256 GB RAM. The database virtual machine performance meets the required levels when run from the development cluster. Performance benchmarking for the database virtual machine yields highly variable results when run from the benchmarking cluster. The application cannot be released without reliable performance benchmarking data.

What is a possible reason for the difference in performance test results between the development and benchmarking clusters?

- A. The database tier breaches a single NUMA node boundary for the development cluster
- B. The development cluster can support a lower %Ready time per vCPU
- C. The development cluster has more available RAM per host
- D. The database tier breaches a single NUMA node boundary for the benchmarking cluster

**Answer:** [\(SHOW ANSWER\)](#)

### **NEW QUESTION: 12**

The Chief Information Security Officer (CISO) for an organization is concerned about the security posture of the operating system images that are used for the provisioning of their Software-as-a-Service (SaaS) applications. The organization is in a growth period. The organization is opening a new data center to launch its next phase of new SaaS-based solutions.

The DevOps team currently creates encrypted virtual machine (VM) templates that are used for various operating systems and adds these to the vSphere inventory. The DevOps team already uses a published content library and has been granted a role with the ability to add and delete library items.

The following requirements have been noted:

Impacts to the DevOps team's operational processes must be kept to a minimum.

The DevOps team must be able to regularly check out a copy of the image for updates and check in a new version of the image.

Images must be synchronized from the primary data center to the new data center.

Which three recommendations should the architect make to design a content library solution that will meet these requirements? (Choose three.)

- A. Clone virtual machines as VM templates to the published content library
- B. Create a subscription and publish VM templates to a subscribed content library
- C. Clone virtual machines as Open Virtualization Format (OVF) templates to the published content library
- D. Update the role for the DevOps team with new privileges
- E. Create a subscribed library from the published library and synchronize Open Virtualization Format (OVF) templates automatically
- F. Create a subscribed library from the published library and synchronize Open Virtualization Format (OVF) templates on-demand

**Answer:** [C,D,F \(LEAVE A REPLY\)](#)

### **NEW QUESTION: 13**

The storage team at an organization is planning to migrate from an older Fibre Channel storage environment to a new environment using IP-based storage.

Which two switch features or characteristics are appropriate for IP storage networks? (Choose two.)

- A. Deep or ultra buffered switches
- B. Spanning Tree Protocol (STP)
- C. Non-blocking switch
- D. Fabric extending devices
- E. 2:1 or greater bandwidth oversubscription for 10 GbE switches

**Answer: (SHOW ANSWER)**

#### **NEW QUESTION: 14**

An architect is finalizing the design for a new vSphere platform based on the following information:

All Windows virtual machines will be hosted on a dedicated cluster for licensing purposes. All Linux virtual machines will be hosted on a dedicated cluster for licensing purposes. All management virtual machines will be hosted on a dedicated cluster.

A total of ten physical sites will be used to host virtual machines.

In the event of one physical datacenter becoming unavailable, the manageability of the virtual infrastructure in the remaining data centers should not be impacted.

Access to configure the management virtual machines via vCenter Server must be controlled through the management Active Directory domain.

Access to configure the Windows and Linux virtual machines must be controlled through the resource Active Directory domain.

The management and resource Active Directory domains are part of separate Active Directory forests and do not have any trusts between them.

The design will use Active Directory with Integrated Windows Authentication.

How should the architect document the vCenter Server configuration for this design?

**A.** Deploy a vCenter Server for the management cluster.

Deploy a vCenter Server for all remaining clusters.

Create a shared SSO domain across all physical sites.

**B.** Deploy a vCenter Server for the management cluster with a dedicated SSO domain.

Deploy a vCenter Server for all remaining clusters and use a dedicated SSO domain into a single physical site.

**C.** Deploy a vCenter Server for the management cluster with a dedicated SSO domain.

Deploy a vCenter Server for all remaining clusters and use a dedicated SSO domain for each physical site.

**D.** Deploy a vCenter server for the management cluster.

Deploy a vCenter Server for all remaining clusters. Create a shared SSO domain for each physical site.

**Answer: A (LEAVE A REPLY)**

#### **NEW QUESTION: 15**

A customer has a database cluster with 40/60 read/write ratio and a high IOPs requirement with no contention on an all-flash vSAN cluster.

Which two storage settings should be configured for best performance? (Choose two.)

- A. RAID 5/6
- B. Deduplication and Compression enabled
- C. IOPs limits enabled
- D. Deduplication and Compression disabled
- E. RAID 1

**Answer: C,E (LEAVE A REPLY)**

#### **NEW QUESTION: 16**

An architect is designing a solution for an environment with two types of resource profiles that must be virtualized. The first type consists of Tier 1 virtual machines that are disk I/O intensive, but do NOT require high CPU or memory. The second type consists of Tier 2 virtual machines that require a lower CPU and memory allocation and have minimal disk I/O.

Which design recommendation should the architect make for distributing the resource profiles?

- A. Run both resource profiles on the same cluster with the same host hardware platform.
- B. Separate the two resource profiles into two clusters. The Tier 1 cluster will have fast storage while the Tier 2 cluster will not.
- C. Separate the two resource profiles into two clusters. The Tier 2 cluster will have faster CPU and more memory while the Tier 1 cluster will have slower CPU and less memory but more disk space.
- D. Run both resource profiles on the same cluster with host hardware that has fast CPU, large amounts of memory, and the fastest storage platform.

**Answer: D (LEAVE A REPLY)**

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#### **NEW QUESTION: 17**

Which two statements are true about gathering functional business and application requirements? (Choose two.)

- A. It might require multiple rounds of stakeholder interviews
- B. It focuses on functional requirements with C-level stakeholders
- C. It builds stakeholder consensus

- D. It is a non-iterative process
- E. It leverages a single set of questions for all stakeholders

**Answer: A,B (LEAVE A REPLY)**

**NEW QUESTION: 18**

A customer is deploying a new cluster and wants to be able to patch and update two hosts in parallel. The cluster must be able to maintain N+1 resiliency across the remaining hosts while patching activities are performed. The current expected utilization of the platform requires a minimum of two hosts to support all of the virtual machines.

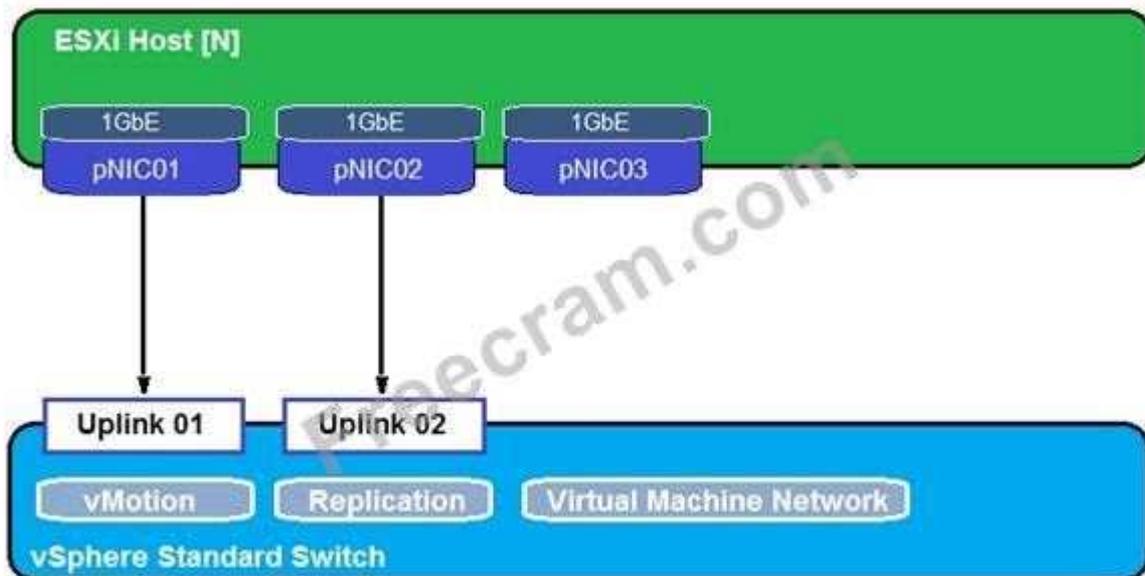
What is the minimum number of hosts the customer will require in the cluster in order to meet the required resiliency level?

- A. Four
- B. Five
- C. Seven
- D. Six

**Answer: A (LEAVE A REPLY)**

**NEW QUESTION: 19**

Refer to the exhibit.



During a requirements gathering workshop, the customer shares the following about their existing ESXi host virtual networking infrastructure:

The customer confirms that:

Each ESXi host has approximately 200 virtual machines.

They want to maximize the number of concurrent virtual machine migrations.

When placing a host in maintenance mode, it takes a long time to evacuate the virtual machines.

Which two recommendations should the architect make in order to help the customer overcome their challenge? (Choose two.)

- A. Use 10 GbE NICs instead of 1 GbE
- B. Create an additional standard switch with pNIC3 to use for vMotion
- C. Configure the network to use MTU for the VMotion VMKernel to 9,000 bytes
- D. Configure the network to use MTU for the VMotion VMKernel to 1,600 bytes
- E. Use the 3 pNICs and bundle them in a link aggregation group (LAG) configuration

**Answer: D,E ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 20**

An architect is tasked with recommending a solution for a company that is running out of VLANs. Currently the company is running two separate data centers based on vSphere including an Enterprise Plus license. In the first data center, the problem was solved by using VMware NSX and overlay network. In the second data center, there is currently no VMware NSX implementation in place and no budget for additional licenses.

What should the architect recommend as a potential solution to provide support for additional VLANs?

- A. Separate Distributed Virtual Switches (DVS)
- B. Virtual Guest Tagging (VGT)
- C. vSwitch VLAN Tagging (VST)
- D. Private VLANs (PVLAN)

**Answer: ([SHOW ANSWER](#))**

#### **NEW QUESTION: 21**

An architect is designing a new VMware software-defined data center (SDDC) that will consist of 100 branch sites connected to a single VMware vCenter Server within the primary data center. To allow for the use of existing automation scripts, there is a requirement to replicate the names of the virtual distributed port groups across all sites. The procurement team purchases licensing and there is no further budget allocated. Which design decision should the architect make to meet this requirement?

- A. A new virtual data center will be created for each branch site
- B. A new vCenter Server will be deployed for each branch site
- C. A new host and cluster folder will be created for each branch site
- D. The automation script will be updated to reflect unique naming for each site

**Answer: C ([LEAVE A REPLY](#))**

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