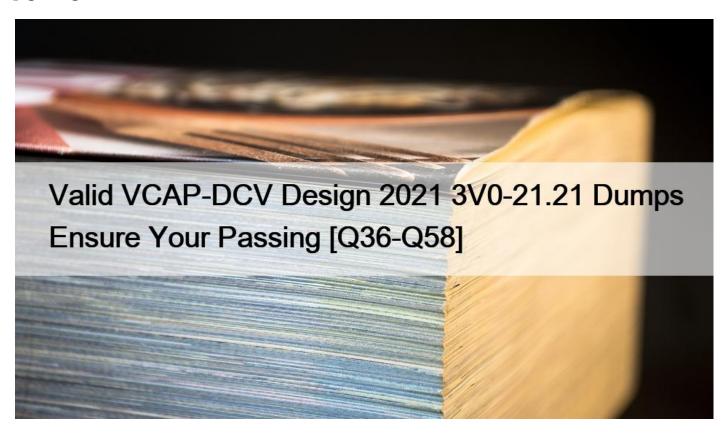# Valid VCAP-DCV Design 2021 3V0-21.21 Dumps Ensure Your Passing [Q36-Q58

Valid VCAP-DCV Design 2021 3V0-21.21 Dumps Ensure Your Passing

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What is the exam cost of the VMware 3V0-21.21 Certification Exam

The exam fees for the VCP6-DCV certification are as follows:

- USD 250 for initial exam purchase (includes one year of free access to subsequent exams)- Discounts are not available in all geographical locations or for all delivery methods.- Further discounts are available for multiple-choice exams.- USD 200 re-take fee (each retake requires a new initial exam purchase; each additional year of access is an additional USD100)

Certification Topics of VMware 3V0-21.21 Exam

Key topics include the following:

- Operations with VMware vSphere Web Client (vSphere)- Virtual Machine Security Hardening- Configuring and Managing Virtual Storage in a vSphere Environment **NO.36** A customer requires the use of data encryption to ensure data is not accessible when a drive is removed from the primary storage platform. However, there is also a requirement to use deduplication and compression against all workloads in order to conserve space.

Which solution meets the customer requirements?

* Data-in-transit encryption

* OS-level encryption

* Encrypted backups

* Array-based encryption

NO.37 A customer has six hosts available in a cluster. When running at full capacity, all virtual machines can be run on two hosts.

How many hosts can the customer place into maintenance mode at the same time while still providing N+2 resiliency to the cluster?
* Two
* Three
* One
* None

NO.38 A Cloud Service Provider wants to introduce backup as a service for a customer’s vSphere-based virtual machines.

The following information is noted:

They have a single four-port (2 * 10 GbE and 2 * 1 GbE) NIC per ESXi host All top-of-rack (ToR) switches are 10 GbE and fully populated The backup traffic must not impact existing services Which two recommendations should the architect make to help the customer incorporate the service? (Choose two.)
* Enable and tag traffic on the backup distributed port group
* Add a new two-port 10 GbE NIC per ESXi host
* Replace the existing NIC with a two-port 25 GbE NIC per ESXi host
* Match the Class of Service (CoS) and Differentiated Services Code Point (DSCP) values to the physical network
* Create a new virtual switch using the 1 GbE uplinks

NO.39 During a transformation project kick-off meeting, an architect highlights specific areas on which to focus while developing the new conceptual design.

Which two of the listed statements are business requirements? (Choose two.)
* The project should use the existing storage devices within the data center
* Sites must support a network latency of less than 12 ms round-trip time (RTT)
* The solution must allow data replication between sites
* There is no budget specifically assigned for disaster recovery
* There must not be a single point of failure for the virtual infrastructure

NO.40 A customer defines a requirement to minimize the vMotion migration time during a maintenance period. The servers being used are equipped with eight 1 GbE network adapters.

Per the defined logical network configuration, there are two network adapters each used for:

Management traffic

vMotion traffic

iSCSI traffic

Virtual machine traffic

Which design decision should the architect make to meet the customer requirement?
* Use Network I/O Control to define a reservation for vMotion traffic.
* Implement Multi-NIC vMotion by adding additional vMotion VMkernels.
* Configure a dedicated TCP/IP stack for vMotion traffic.

* Combine vMotion and Management traffic to make use of four adapters.

NO.41 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 support the concurrent running of 1,000 virtual machines The production environment must be delivered across two geographically dispersed data centers All virtual machines must be capable of running in either data center.

The two data centers are currently connected to each other through a single but diversely routed, high bandwidth and low latency link.

The link between the two data centers is capable of supporting a round-trip time (RTT) of 150 ms The existing server hardware standard document states that all virtual infrastructure hosts must be deployed using vSAN ReadyNodes The service owner has stated that it is critical to ensure the availability target of 99.9% All virtual machine backups must be completed using the existing backup service The recovery time objective (RTO) for the service is five minutes The recovery point objective (RPO) of the service is four hours Which two elements represent risks to the successful delivery of this solution? (Choose two.)
* The use of only two data centers
* The network connectivity between data center sites
* The use of vSAN ReadyNodes
* The RTT on the link between the two data centers
* The use of the existing backup service

NO.42 A new vSphere platform is being created. The platform will host virtual machines that will run management services and line-of-business applications.

What should the architect consider when designing the number and type of clusters required?
* Maximum tolerable downtime
* Predicted platform growth
* Auditing requirements for the virtual machines
* The level of isolation required between virtual machine classifications

NO.43 An architect is designing the expansion of an existing vSphere 7 environment. The customer is requesting a design for a new cluster to support the anticipated future business growth. The requirements specified for the existing environment design must be considered when designing the new cluster.

The existing design has the following requirements:

REQ01 The environment has an availability target of 99.5% for all infrastructure.

REQ02 The recovery time objective (RTO) for Tier 1 virtual machines is one hour.

REQ03 Windows and Linux virtual machines must reside on separate clusters.

REQ04 Access to the management cluster within the environment must be controlled.

Which of the listed requirements would be classified as a functional requirement?
* The environment has an availability target of 99.5% for all infrastructure

* The recovery time objective (RTO) for Tier 1 virtual machines is one hour
* Access to the management cluster within the environment must be controlled
* Windows and Linux virtual machines must reside on separate clusters

NO.44 Which of the listed requirements would be classified as a recoverability non-functional requirement?
* The platform must be integrated with existing change control policies.
* The platform must be able to support a maximum tolerable downtime (MTD) of 30 minutes.
* Maintenance windows must be scheduled to take place monthly during an established overnight period.
* The platform must be available 24 hours a day, 7 days a week with the exception of scheduled downtime.

NO.45 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.)
* The backup service will store data in a secure facility
* The backup service has sufficient capacity for the new requirements
* The customer will update their hardware standard to support rack mount servers
* All virtual machines will be deployed with the same resource profile for production and development
* The clusters will have a minimum redundancy of N+1

NO.46 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.)
* Clone virtual machines as VM templates to the published content library
* Create a subscribed library from the published library and synchronize Open Virtualization Format (OVF) templates on-demand
* Create a subscription and publish VM templates to a subscribed content library
* Create a subscribed library from the published library and synchronize Open Virtualization Format (OVF) templates automatically
* Clone virtual machines as Open Virtualization Format (OVF) templates to the published content library
* Update the role for the DevOps team with new privileges

NO.47 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?
* 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.
* 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.
* 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.

* 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.

NO.48 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?
* Three
* Five
* Four
* Two

NO.49 Application owners require support of a Microsoft Windows Server Failover Cluster (WSFC).

Their current environment consists of the following components:

vSphere 7.0 and vSAN 7.0

External array supporting NFS 3.0/4.1, Server Message Block (SMB) 2.1

10 GbE storage connectivity for all devices

The solution architect is tasked with coming up with a solution to meet this requirement while utilizing their existing investments.

Which two recommendations could the architect make? (Choose two.)
* Use vSAN native support for WSFC
* Use NFS 4.1 shares for quorum and shared disk
* Use raw device mapping (RDM)
* Use the SMB 2.1 protocol for sharing disks
* Run WSFC on vSAN iSCSI Target Service

Reference:

https://blogs.vmware.com/virtualblocks/2018/04/18/vsan-6-7-introducing-wsfc-support-vsan

NO.50 As part of a new hybrid cloud initiative for a large financial company, the customer technical team is presenting an overview of the current state of the infrastructure and their vision for a new solution.

The project team captures notes during the presentation and adds them to the discovery documentation.

Which of the listed statements is a design constraint?
* The applications are created in-house with in-guest recovery protection
* The maximum tolerable data loss is 10 minutes
* The two data center locations have a network latency of 8 ms round-trip time (RTT)
* The existing storage is out of maintenance

NO.51 An architect is preparing a design for a customer. Based on requirements, the architect recommends an HCI- based infrastructure with all-flash architecture. During the assessment, it is confirmed that the network throughput generated by virtual machines does not exceed 150 Mb/s.

What is the minimum number and type of network adapters in each server that the architect can recommend to ensure requirements are met and there is no single point of failure?
* Two 1 GbE network adapters per server
* Four 1 GbE network adapters per server
* Four 10 GbE network adapters per server
* Two 10 GbE network adapters per server

NO.52 The architect for a large enterprise is tasked with reviewing a proposed design created by a service partner. Which design elements are expected to be detailed within the physical design section of the documentation?
* A design diagram illustrating the configuration and specific attributes, such as IP addresses
* A list of requirements, constraints, and risks
* A solution architecture diagram with the components and data flow
* An entity relationship diagram describing upstream and downstream dependencies for specific service components

NO.53 An architect is designing a VMware software-defined data center (SDDC) solution based on the following customer requirements:

The solution must initially support 1,000 virtual machines

The solution must scale to support the concurrent running of up to 5,000 virtual machines The production environment should be delivered across two data centers The solution should have a maximum tolerable downtime (MTD) of four hours The solution should have a monthly service availability target of 99.8% Which two assumptions could the architect make based on the information from the customer to help size the solution? (Choose two.)
* The number of vSphere hosts in a cluster
* The average resource utilization of a virtual machine
* The size (CPU/RAM/storage) of the average virtual machine
* The guest operating system for each virtual machine
* The size (CPU/RAM/storage) of the vSphere hosts

NO.54 A architect is designing a new VMware software-designed data center (SDDC) using vSphere 7 to meet the following requirements:

The SDDC must be deployed at two locations: primary and secondary.

vSphere Replication must be used to replicate virtual machines between the two locations.

Site Recovery Manager must be used to orchestrate disaster recovery (DR) activities.

One single-sign on (SSO) domain must be used to authenticate access at both locations.

Which design decision should the architect make to meet these requirements?
* A vCenter Server Appliance will be deployed to each site. Unique SSO domains will be created per site.
* A vCenter Server will be installed on Windows virtual machines deployed to both sites.
* A vCenter Server Appliance will be deployed to each site.
* A vCenter Server Appliance will be deployed to the primary site only.

NO.55 A VMware Service Provider is tasked with delivering a solution for continuous availability for a subset of Tier 1 virtual machines (VMs) and vApps running in their vSAN environment. The VMs make up a mission-critical application and there can be no data loss in the event of an outage at their primary data center. In the event of a regional outage, they have established a 10-minute recovery point objective (RPO). Failover/failback to the third site must be automated.

They have the following in place:

Two local data centers (primary and secondary) connected with 100 Gb dedicated fiber

2ms round-trip time (RTT) latency between the sites

A third data center located on another power grid

70ms latency between the primary and secondary data centers

Matching storage arrays at all locations

Which two solutions could be used to meet the requirements? (Choose two.)
* Site Recovery Manager
* Snapshots
* vSAN Metro Cluster
* vSphere Data Protection
* vStorage APIs for Array Integration (VAAI)
https://core.vmware.com/resource/vsan-stretched-cluster-guide#section1

NO.56 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.)
* IOPs limits enabled
* RAID 1
* Deduplication and Compression disabled
* RAID 5/6
* Deduplication and Compression enabled

NO.57 An architect is designing a new vSphere environment to meet the following requirements:

The environment must support 5,000 virtual machines.

The environment will be built initially using 350 hosts.

Which vCenter Server appliance deployment size should the architect specify for the design?
* Large
* Small
* Tiny
* Medium
For more details:

– Tiny environment (up to 10 hosts or 100 virtual machines)

– Small environment (up to 100 hosts or 1,000 virtual machines)

– Medium environment (up to 400 hosts or 4,000 virtual machine)

– Large environment (up to 1,000 hosts or 10,000 virtual machines)

– X-Large environment (up to 2,500 hosts or 45,000 virtual machines)

https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vcenter.install.doc/GUID-88571D8A-46E1-464D-A349-4DC43DC
AF320.html

NO.58 An architect is considering placement of virtual machines within an existing VMware software-defined data center (SDDC).

During the discovery phase, the following information is documented:

Cluster One

Six ESXi hosts

vSphere HA with host failures cluster tolerates = 1

Proactive HA is enabled and set to automated

Fully Automated vSphere DRS

Transparent Page Sharing (TPS) is enabled

Cluster Two

Eight ESXi hosts

vSphere HA with host failures cluster tolerates = 1

Proactive HA is disabled

Partially Automated vSphere DRS

Transparent Page Sharing (TPS) is disabled

Cluster Three

Three ESXi hosts

vSphere HA with admission control is disabled

Proactive HA is not supported

Transparent Page Sharing (TPS) is disabled

Virtual Machine Resource Profile 1

Memory sharing techniques should not be used

Virtual machines should be automatically restarted in the event of host failure if resources are available Automated initial virtual machine placement Virtual Machine Resource Profile 2 Memory sharing techniques should not be used Virtual machines should be automatically restarted in the event of host failure regardless of available resources Automated initial virtual machine placement Which two recommendations should the architect make for placement of the virtual machines to meet resource profile requirements? (Choose two.)
* All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster One.
* All virtual machines matching Virtual Machine Resource Profile 1 should be placed on Cluster One.
* All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster Two.
* All virtual machines matching Virtual Machine Resource Profile 1 should be placed on Cluster Two.
* All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster Three.
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.resmgmt.doc/GUID-FEAC3A43-C57E-49A2-8303-B06D
BC9054C5.html

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