



VMware 3V0-21.23

**VMware VCAP-DCV Design 2024 Certification
Questions & Answers**

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3V0-21.23

**[VMware Certified Advanced Professional - Data Center Virtualization Design
2024 \(VCAP-DCV Design 2024\)](#)**

60 Questions Exam – 300 / 500 Cut Score – Duration of 145 minutes



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Discover More about the 3V0-21.23 Certification

Are you interested in passing the VMware 3V0-21.23 exam? First discover, who benefits from the 3V0-21.23 certification. The 3V0-21.23 is suitable for a candidate if he wants to learn about Data Center Virtualization. Passing the 3V0-21.23 exam earns you the VMware Certified Advanced Professional - Data Center Virtualization Design 2024 (VCAP-DCV Design 2024) title.

While preparing for the 3V0-21.23 exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The 3V0-21.23 PDF contains some of the most valuable preparation tips and the details and instant access to useful 3V0-21.23 study materials [just at one click](#).

VMware 3V0-21.23 VCAP-DCV Design 2024 Certification Details:

Exam Name	VMware vSphere 8.x Advanced Design (VCAP-DCV Design 2024)
Exam Code	3V0-21.23
Exam Price	\$250 USD
Duration	145 minutes
Number of Questions	60
Passing Score	300 / 500
Recommended Training / Books	VMware vSphere: Design [V8]
Schedule Exam	PEARSON VUE
Sample Questions	VMware 3V0-21.23 Sample Questions
Recommended Practice	VMware Certified Advanced Professional - Data Center Virtualization Design 2024 (VCAP-DCV Design 2024) Practice Test

3V0-21.23 Syllabus:

Section	Objectives
IT Architectures, Technologies, Standards	<ul style="list-style-type: none"> - Differentiate between business and technical requirements (formerly non-functional and functional). - Differentiate conceptual, logical, and physical design. - Differentiate between Availability, Manageability, Performance, Recoverability and Security (AMPRS).
VMware Products and Solutions	<ul style="list-style-type: none"> - Describe VMware Cloud Foundation architecture. <ul style="list-style-type: none"> • Describe the components of a VMware Cloud Foundation architecture. • Describe VMware Cloud Foundation benefits. • Identify VMware Cloud Foundations use cases. - Describe VMware Validated Solutions architecture. <ul style="list-style-type: none"> • Describe VMware Validated Solutions benefits. • Identify VMware Validated Solutions use cases.
Plan and Design the VMware Solution	<ul style="list-style-type: none"> - Gather and analyze business objectives and requirements. <ul style="list-style-type: none"> • Identify business factors that affect designs. • Define customer business objectives. • Gather and analyze business, application, and operational requirements. • Define business requirements, constraints, assumptions, risks, risks mitigation, and SLOs (Service Level Objectives). • Gather and analyze business and technical (formerly non-functional and functional) requirements. - Create a conceptual model. <ul style="list-style-type: none"> • Use a systematic method to evaluate and document the conceptual model. • Create a conceptual model from a set of business

Section	Objectives
	<p>objectives.</p> <ul style="list-style-type: none"> - Create a logical design. <ul style="list-style-type: none"> • Recognize key information required for logical design decisions. • Identify design decision options. • Based on a given scenario, identify the design decision(s) to support within a vSphere logical design. • Define design impacts, risks, and risk mitigation options. • Create a logical design from a conceptual design. - Create a physical design. <ul style="list-style-type: none"> • Recognize key information required in physical design decisions. • Create a physical design from a logical design. - Design for manageability: capacity planning <ul style="list-style-type: none"> • Make design decisions for capacity planning. <ul style="list-style-type: none"> - Make capacity planning design decisions for vSphere that meets the business requirements. - Define a capacity planning strategy that meets the business requirements. - Design for manageability: scalability <ul style="list-style-type: none"> • Make scalability design decisions that meets the business requirements. • Make design decisions to scale storage types. - Design for manageability: lifecycle management <ul style="list-style-type: none"> • Make lifecycle management design decisions that meets the business requirements. - Design for availability

Section	Objectives
	<ul style="list-style-type: none"> • Make design decisions to meet SLO availability requirements. <ol style="list-style-type: none"> 1. Make design decisions for compute. 2. Make design decisions for storage. 3. Make design decisions for networking. 4. Make design decisions to choose a high availability option for vCenter Server. <p>- Design for performance</p> <ul style="list-style-type: none"> • Make design decisions to meet SLO performance requirements. <ol style="list-style-type: none"> 1. Identify design decision options for increasing storage performance. 2. Identify design decision options for increasing network performance. 3. Identify design decision options for increasing virtual machine performance. <p>- Design for security</p> <ul style="list-style-type: none"> • Make security design decisions that meet business requirements. <p>- Design for recoverability</p> <ul style="list-style-type: none"> • Make recoverability design decisions that meet the SLO recoverability requirements.
Install, Configure, Administrate the VMware Solution	
Troubleshoot and Optimize the VMware Solution	

Broaden Your Knowledge with VMware 3V0-21.23

Sample Questions:

Question: 1

An architect is designing a solution for an environment that has an application consisting of five resource-intensive virtual machines. Which design recommendation should the architect make to avoid resource bottlenecks?

- a) Create a cluster with three hosts and only run the application virtual machines on this cluster.
- b) Create a cluster with six hosts and use automated placement rules to keep the application virtual machines together.
- c) Create a cluster with six hosts and use automated placement rules to keep the application virtual machines apart.
- d) Create a cluster with four hosts and use rules to prioritize the resources for the application virtual machines.

Answer: c

Question: 2

An architect is assigned to report available capacity of a vSphere platform and is provided with the following:

- Read-only access to the platform's virtualization monitoring tool
- Full access to an internally developed and manually updated Configuration Management Database (CMDB) tool
- Access to a document repository containing the go-live design documentation for each application
- Links to vendor best practice documentation for many of the deployed applications
- Access to the company wide in-guest monitoring tool

Information extracted from which two sources will accurately provide the required information?

(Choose two.)

- a) Virtualization monitoring tools
- b) Application virtual machine design documents
- c) In-guest monitoring tools
- d) Application vendor best practice documentation
- e) Support organizations Configuration Management Database (CMDB)

Answer: a, c

Question: 3

An architect is redesigning a storage environment to provide simplified management of a VMware environment. The administrators have expressed the need to provision storage and apply a custom set of array features granularly to virtual machines. They will re-use their existing shared storage platform as it does support all modern VMware storage integrations.

Which two technologies or features are needed to support the requirements of this project?

(Choose two.)

- a) vStorage APIs for Storage Awareness (VASA)
- b) vSphere Virtual Volumes (vVols)
- c) Datastore Clusters
- d) vSphere Storage DRS
- e) Raw Device Mappings (RDMs)

Answer: a, b

Question: 4

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

- REQ01 The platform must provide a minimum of N+1 redundancy.
- REQ02 The recovery point objective (RPO) for all virtual machines within the environment is one hour.
- REQ03 The production environment must be deployed into the primary data center.
- REQ04 The design must adhere to the company security standards, which include Payment Card Industry (PCI) Data Security Standard compliance.
- REQ05 The platform must be capable of running 1,000 virtual machines across both data centers concurrently.

Which two of the listed requirements would be classified as functional requirements?

(Choose two.)

- a) The platform must provide a minimum of N+1 redundancy.
- b) The recovery point objective (RPO) for all virtual machines within the environment is one hour.
- c) The production environment must be deployed into the primary data center.
- d) The design must adhere to the company security standards, which include Payment Card Industry (PCI) Data Security Standard compliance.
- e) The platform must be capable of running 1,000 virtual machines across both data centers concurrently.

Answer: c, e

Question: 5

An architect is designing a new platform. Existing virtual machines will be migrated to this platform. The migration process is defined as follows:

- A migration host will be loaded with virtual machines from the old platform.
- The migration host will be added to the desired new cluster.
- Virtual machines compute and storage will be migrated to desired hosts in the new platform.
- The migration host will be removed and added back to the old platform so the process can restart.

The following characteristics are noted:

- A total of 800 virtual machines will be migrated.
- A total of 50 hosts will be available in the new platform.
- The migration host will have four paths to each of 512 connected LUNs.

Which size vCenter Server should be specified for the new platform?

- a) Large
- b) Small
- c) Medium
- d) Tiny

Answer: a

Question: 6

The DevOps team at an organization is preparing to build and package virtual machine (VM) images that will be added to a content library for a new vSphere environment. Users will deploy virtual machines from the content library.

The solutions architect is gathering requirements to help the DevOps team decide between the use of VM templates versus Open Virtualization Format (OVF) templates in the content library.

Which requirement would influence the design decision to use OVF templates in the content library?

- a) Templates must be able to support license agreement acceptance during deployment.
- b) Templates must be encrypted.
- c) vSphere Storage DRS must be supported.
- d) Templates must be automatically migrated to another ESXi host when a host is inaccessible.

Answer: a

Question: 7

An organization operates a vSphere platform that supports three tiers of virtual machines: Tier 1- for all business-critical applications and services, Tier 2- for line of business services, and Tier 3- for test and development virtual machines.

The vSphere platform operates from three sites, named A, B and C; and virtual machines from all tiers run at each location. The operations manager wants to improve services so that the vSphere platform operates with virtual machines running on any site.

The Chief Executive Officer (CEO) requests that the architect redesign the disaster recovery (DR) solution to meet the goals of the operations manager and notes that site A should not be considered as there are plans to redevelop it as office space.

Which requirement should the architect include in the design to meet the goals of both the operations manager and the CEO?

- a) DR must be configured as Active/Passive between sites A and B. Tier 1, 2 and 3 virtual machines must be operated from site A.
- b) DR must be configured as Active/Active between sites A, B and C. Tier 1, 2 and 3 virtual machines must be capable of running at any site.
- c) DR must be configured as Active/Passive between sites B and C. Tier 1, 2 and 3 virtual machines must be operated from site B.
- d) DR must be configured as Active/Active between sites B and C. Tier 1, 2 and 3 virtual machines must be capable of running at any site.

Answer: d

Question: 8

An architect is designing a solution for an environment with a limited number of operating system licenses. How should the architect design the virtual infrastructure to meet the operating system license requirements?

- a) Place the hosts into a single cluster and enable automated placement of virtual machines.
- b) Create rules to restrict placement of virtual machines to specified hosts.
- c) Create a resource pool and only put the virtual machines that need the operating system licenses within the pool.
- d) Use standalone ESXi hosts and only apply the operating system licenses to those hosts.

Answer: b

Question: 9

An application owner is concerned about their front-end web servers suffering an outage in the event of a host failure. Which functional requirement could the architect include in the application design to mitigate this concern?

- a) The platform must include configuration rules to separate the web servers.
- b) The platform must include configuration rules to restart the web servers upon host failure.
- c) The platform must be configured with resource scheduling in fully automated mode.
- d) The platform must include configuration rules to reset the web servers when guest heartbeats are not received.

Answer: a

Question: 10

An architect is tasked with designing the vSphere cluster layout for a customer. The customer is NOT sure how many clusters are required or the number of hosts to use in any of the clusters. The customer has provided the following requirements:

- The placement of Linux and Windows machines (end user virtual machines) needs to be controlled for license compliance.
- Access to virtual machines such as Active Directory and DHCP (infrastructure virtual machines) should be restricted to just the platform administration team.
- Infrastructure virtual machines should not prevent end user virtual machines from consuming their allocated resources.
- Utilization for the current infrastructure's virtual machines is less than end user virtual machines.
- The platform needs to provide the ability to lifecycle manage the hosts without impacting end user virtual machines.
- The platform needs to account for the predicted future growth of end user virtual machines being very high, while for infrastructure virtual machines being very low.
- There are a total of 15 physical servers for use across the platform.

Which of the proposed cluster layouts would meet the customer's requirements?

- a) One vSphere cluster of 12 hosts for Linux and Windows virtual machines and one vSphere cluster of three hosts for infrastructure virtual machines.
- b) One vSphere cluster of six hosts for Linux virtual machines, one vSphere cluster of six hosts for Windows virtual machines and one vSphere cluster of three hosts for infrastructure virtual machines.
- c) One vSphere cluster of 15 hosts for all virtual machines with resource controls to give higher priority to end user virtual machines.
- d) One vSphere cluster of five hosts for Linux virtual machines, one vSphere cluster of five hosts for Windows virtual machines and one vSphere cluster of five hosts for infrastructure virtual machines.

Answer: b

Avail the Study Guide to Pass VMware 3V0-21.23 VCAP-DCV Design 2024 Exam:

- Find out about the 3V0-21.23 syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the [3V0-21.23 syllabus](#), it is time to plan for studying and covering the syllabus topics from the core. Chalk out the best plan for yourself to cover each part of the syllabus in a hassle-free manner.
- A study schedule helps you to stay calm throughout your exam preparation. It should contain your materials and thoughts like study hours, number of topics for daily studying mentioned on it. The best bet to clear the exam is to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the 3V0-21.23 training. Joining the VMware provided training for 3V0-21.23 exam helps a candidate to strengthen his practical knowledge base from the certification.
- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the [3V0-21.23 sample questions](#) and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. 3V0-21.23 practice tests would guide you on your strengths and weaknesses regarding the syllabus topics. Through rigorous practicing, you can improve the weaker sections too. Learn well about time management during exam and become confident gradually with practice tests.

Career Benefits:

- Passing the 3V0-21.23 exam, helps a candidate to prosper highly in his career. Having the certification on the resume adds to the candidate's benefit and helps to get the best opportunities.

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