

VMware Cloud Foundation Specialist (v2)

Exam Details (Last Updated: 01/09/2020)

The VMware Cloud Foundation Specialist exam (v2) (SV0-31.22) which leads to VMware Certified Specialist - Cloud Foundation specialist certification is a 70-item exam, with a passing score of 300 using a scaled method. Exam time is 110 minutes.

Exam Delivery

This is a proctored exam delivered through Pearson VUE. For more information, visit the [Pearson VUE website](#).

Certification Information

For details and a complete list of requirements and recommendations for attainment, please reference the [VMware Education Services – Certification website](#).

Minimally Qualified Candidate

The Minimally Qualified Candidate (MQC) has 6-12 months hands-on experience installing, configuring, and managing VMware Cloud Foundation. The MQC also has experience in deployment and administration of guest operating systems on a VMware Cloud Foundation infrastructure. The Minimally Qualified candidate shows intermediate knowledge in: networking including core switching and routing concepts, hardware, monitoring and troubleshooting, and security concept knowledge including certificates. The MQC also possesses basic business continuity and disaster discovery knowledge, basic understanding of workload platform capabilities including use cases and Kubernetes constructs and basic knowledge of vRealize Suite. Candidates should have completed all recommended training courses for this credential and hold a VCP-DCV 2020,2021 or 2022. The successful candidate will likely hold additional industry-recognized IT certifications or accreditations. The MQC should have all the knowledge contained in the exam sections listed below.

Exam Sections

VMware exam blueprint sections are now standardized to the seven sections below, some of which may NOT be included in the final exam blueprint depending on the exam objectives.

Section 1 – Architecture and Technologies

Section 2 – Products and Solutions

Section 3 – Planning and Designing

Section 4 – Installing, Configuring, and Setup

Section 5 – Performance-tuning, Optimization, and Upgrades

Section 6 – Troubleshooting and Repairing

Section 7 – Administrative and Operational Tasks

If a section does not have testable objectives in this version of the exam, it will be noted below, accordingly. The objective numbering may be referenced in your score report at the end of your testing event for further preparation should a retake of the exam be necessary.

Sections Included in this Exam

Section 1 – Architectures and Technologies

Objective 1.1: Identify NSX Federation components and architecture

Objective 1.2: Identify use cases for multiple clusters in a workload domain.

Objective 1.3: Identify the characteristics of Spherelet.

Section 2 – VMware Products and Solutions

Objective 2.1: Identify the use case of NSX Federation in VMware Cloud Foundation.

Objective 2.2: Identify the functions of supervisor cluster control plane.

Section 3 – Planning and Designing

Objective 3.1: Given a scenario, identify the requirements for deploying VMware Cloud Foundation. Objective 3.2: Given a scenario, identify the considerations for management domain sizing.

Objective 3.3: Given a scenario, identify the considerations for workload domain sizing.

Objective 3.4: Given a scenario, identify the design considerations for ESXi in management and VI workload domains.

Objective 3.5: Given a scenario, identify the design considerations for vCenter in management and VI workload domains.

Objective 3.6: Identify the components or steps during the VMware Cloud Foundation bring-up process.

Objective 3.7: Identify information required for the Planning and Preparation Workbook.

Objective 3.8: Identify information required for the Deployment Parameter Workbook.

Objective 3.9: Identify the components of the NSX Management, Control, or Data planes.

Objective 3.10: Given a scenario, identify design considerations for workload domains with shared NSX Manager instances.

Objective 3.11: Given a scenario, identify design considerations for workload domains with dedicated NSX Manager instances.

Objective 3.12: Identify NSX Edge cluster requirements for vSphere with Tanzu.

Objective 3.13: Identify the steps for data plane preparation for NSX-T Data Center Edge nodes in a workload domain.

Objective 3.14: Given a scenario, identify design considerations for vSphere networking in management and VI workload domains.

Objective 3.15: Given a scenario, identify design considerations for storage in management and VI workload domains.

Objective 3.16: Given a scenario, identify the difference between design choices for a consolidated design or standard design.

Objective 3.17: Identify workload domain prerequisites.

Objective 3.18: Identify the prerequisites for vSphere with Tanzu cluster compatibility. Objective 3.19: Identify the role of external service availability.

Objective 3.20: Given a scenario, identify the requirements for the stretched cluster use case. Objective 3.21: Identify stretched cluster components.

Section 4 – Installing, Configuring, and Setup

Objective 4.1: Identify what is validated in the configuration validation process performed by VMware Cloud Builder.

Objective 4.2: Given a scenario, identify how to image a host.

Objective 4.3: Given a scenario, identify how to configure user access to VMware Cloud Foundation.

Objective 4.4: Given a scenario, identify NSX Edge cluster deployment considerations.

Objective 4.5: Identify the functions of vSphere with Tanzu namespaces.

Objective 4.6: Identify the functions of NSX-T networking components.

Objective 4.7: Given a scenario, identify the control plane VM management networking requirements.

Objective 4.8: Given a scenario, identify the appropriate IP address CIDR ranges for pod, ingress, and egress networking.

Objective 4.9: Given a scenario, identify the steps to deploy vSphere with Kubernetes.

Objective 4.10: Given a scenario, identify the storage options for VMware Cloud Foundation.

Objective 4.11: Identify the available CA options in SDDC Manager.

Section 5 – Performance-tuning, Optimization, Upgrades

Objective 5.1: Given a scenario, identify NSX Edge cluster placement considerations.

Objective 5.2: Given a scenario, identify the connectivity options for supplemental storage.

Objective 5.3: Identify the characteristics of scaling vSAN clusters in VMware Cloud Foundation.

Objective 5.4: Given a scenario, identify suitable storage policies for a workload domain cluster.

Objective 5.5: Identify the components that can be supported and upgraded using SDDC manager / vRSLCM.

Objective 5.6: Given a scenario, identify available options for online and offline bundle download using SDDC manager / vRSLCM.

Objective 5.7: Identify the function of vSphere Lifecycle Management in VMware Cloud Foundation.

Objective 5.8: Identify the characteristics of vSphere Lifecycle Manager Baseline-based and Image-based Clusters.

Objective 5.9: Identify the order of upgrade for VMware Cloud Foundation components.

Section 6 – Troubleshooting and Repairing

Objective 6.1: Identify steps in the SDDC Manager backup and restore process.

Objective 6.2: Given a scenario, identify the requirements to perform a full recovery for a VCF deployment.

Objective 6.3: Given a scenario, identify how to upgrade VMware Cloud Foundation software and components.

Objective 6.4: Identify the steps to perform checks and create log bundles with the SoS tool.

Section 7 – Administrative and Operational Tasks

Objective 7.1: Given a scenario, identify how to manage passwords in VMware Cloud Foundation including supported components and options.

Objective 7.2: Given a VMware component, identify which, when, or how to assign license keys.

Objective 7.3: Given a VMware component, identify how to replace a expiring license.

Objective 7.4: Identify the steps to create a workload domain.

Objective 7.5: Identify the steps to scale a workload domain.

Objective 7.6: Identify the steps to delete a workload domain.

Objective 7.7: Identify the steps to decommission hosts.

Objective 7.8: Identify the steps to create a vSphere namespace.

Objective 7.9: Identify the steps to configure limits and permissions for a vSphere namespace.

Objective 7.10: Identify the steps to enable Harbor Image Registry.

Objective 7.11: Identify the characteristics of mapping between storage policies and Kubernetes storage classes.

Objective 7.12: Identify the characteristics of persistent volumes.

Objective 7.13: Identify the steps to replace and install certificates for VMware Cloud Foundation components.

Objective 7.14: Identify the function of VMware Cloud Foundation services.

Recommended Courses

VMware Cloud Foundation Plan and Deploy

VMware Cloud Foundation Management and Operations[V4.3]

VMware Cloud Foundation: Planning, Management, Operations [V4.3]

References

In addition to the recommended courses, item writers used the following references for information when writing exam questions. It is recommended that you study the reference content as you prepare to take the exam, in addition to the recommended training.

https://mylearn.vmware.com/mgrReg/courses.cfm?ui=www_edu&a=one&id_subject=93937

https://mylearn.vmware.com/mgrReg/courses.cfm?ui=www_edu&a=one&id_subject=963932

https://mylearn.vmware.com/mgrReg/courses.cfm?ui=www_edu&a=one&id_subject=96440

<https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/datasheet/products/vmware-cloud-foundation-faq.pdf>

<https://docs.vmware.com/en/VMware-Cloud-Foundation/4.4/vcf-admin>

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