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VMware Cloud Foundation Deployment Specialist

Exam Details (Last Updated: 10/24/2023)

The VMware Cloud Foundation Deployment Specialist exam (5V0-31.23) which leads to VMware Certified Specialist - VMware Cloud Foundation Deployment certification is a 70-item exam, with a passing score of 300 using a scaled method. Candidates are given an appointment time of 105 minutes, which includes adequate time to complete the exam for non-native English speakers. This exam may contain a variety of item types including multiple-choice, multiple-selection multiple-choice, build-list, matching, drag-and-drop, pint-and-click and hot-area. Additional item types may be used but will appear less frequently than those previously mentioned.

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 Learning Services – Certification website.

Minimally Qualified Candidate

The minimally acceptable candidate (MAC) has 6-12 months experience installing, configuring, and managing VMware Cloud Foundation, but may occasionally require assistance with carrying out the more complex tasks. The MAC also has experience in deployment and administration of guest operating systems on a VMware Cloud Foundation infrastructure but may occasionally need to research how to perform some tasks. The MAC has a fundamental understanding of networking including core switching and routing concepts, hardware, monitoring and troubleshooting, and security, including certificates. The MAC also possesses basic business continuity and disaster recovery knowledge, basic understanding of workload platform capabilities including some use cases and Kubernetes constructs and vRealize Suite but may occasionally need to research these topics. The MAC possesses most of the knowledge captured in the exam sections (blueprint).

Exam Sections

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

Section 1 – IT Architectures, Technologies, Standards

Section 2 – VMware Solution

Section 3 – Plan and Design the VMware Solution

Section 4 – Install, Configure, Administrate the VMware Solution

Section 5 – Troubleshoot and Optimize the VMware Solution

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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 – IT Architectures, Technologies, Standards

Not Applicable

Section 2 – VMware Solution

- Objective 2.1: Identify VMware Cloud Foundation components and architecture
  - Objective 2.1.1: Identify VMware Cloud Foundation components
  - Objective 2.1.2: Describe the VMware Cloud Foundation solution
  - Objective 2.1.3: Describe VMware Cloud Foundation architecture
  - Objective 2.1.4: Describe VMware Cloud Foundation topology
  - Objective 2.1.5: Identify the function of VMware Cloud Foundation services on SDDC manager
  - Objective 2.1.6: Identify the use cases for the different workload domains
  - Objective 2.1.6.1: Identify the characteristics of vSphere Lifecycle Manager Baseline-based and Image-based clusters.
- Objective 2.2: Identify VMware Cloud Foundation+ components and architecture
  - Objective 2.2.1: Describe the components of a VCF+ architecture
  - Objective 2.2.2: Identify the pre-requisites for VCF+
  - Objective 2.2.3: Identify the subscription lifecycle for VMware Cloud Foundation+.
- Objective 2.3: Identify VMware Cloud Gateway components and architecture in relation to VMware Cloud Foundation
  - Objective 2.3.1: Identify the Cloud Gateway components
  - Objective 2.3.2: Describe the Cloud Gateway architecture
  - Objective 2.3.3: Describe Cloud Gateway connectivity to VMware Cloud
- Objective 2.4: Identify NSX components and architecture in relation to VMware Cloud Foundation
  - Objective 2.4.1: Identify NSX components
  - Objective 2.4.2: Describe NSX architecture
  - Objective 2.4.3: Identify the use case of NSX Federation in VMware Cloud Foundation
  - Objective 2.4.4: Describe the role of NSX networking components in VMware Cloud Foundation
- Objective 2.5: Identify vSAN components and architecture in relation to VMware Cloud Foundation
  - Objective 2.5.1: Identify vSAN architecture and components

Objective 2.5.2: Identify vSAN stretched cluster components

Objective 2.5.3: Identify the use case for vSAN stretched clusters in VMware Cloud Foundation

Objective 2.6: Identify use cases for vSphere with Tanzu in VMware Cloud Foundation

Objective 2.6.1: Identify the functions of vSphere with Tanzu Supervisor namespaces.

Section 3 – Plan and Design the VMware Solution

Not Applicable

Section 4 – Install, Configure, Administrate the VMware Solution

Objective 4.1: Identify the deployment function of VMware Cloud Builder

Objective 4.1.1: Describe how VMware Cloud Builder automates the deployment process.

Objective 4.1.2: Identify the configuration validation process performed by VMware Cloud Builder.

Objective 4.2: Given a scenario, identify the steps to configure NSX Federation in VMware Cloud Foundation

Objective 4.3: Given a scenario, identify the steps to configure NSX Multi-Rack in VMware Cloud Foundation

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

Objective 4.5: Identify the steps to deploy NSX Edge clusters

Objective 4.6: Given a scenario, identify the storage options for VMware Cloud Foundation

Objective 4.7: Given a scenario, identify suitable storage policies for a VMware Cloud Foundation workload domain

Objective 4.8: Given a scenario, identify the steps to configure a vSAN stretched cluster in VMware Cloud Foundation

Objective 4.9: Given a scenario, identify how to configure user access to VMware Cloud Foundation

Objective 4.9.1: Identify the steps to manage user access in SDDC Manager

Objective 4.9.2: Identify the steps to manage user access in Aria Suite Lifecycle

Objective 4.9.3: Identify the steps to manage user access in NSX

Objective 4.10: Identify the available Certificate Authority options in SDDC Manager

Objective 4.11: Identify the steps to install and replace certificates for VMware Cloud Foundation including supported components and options

Objective 4.11.1: Identify the steps to manage certificates in SDDC Manager

Objective 4.11.2: Identify the steps to manage certificates in Aria Suite Lifecycle

Objective 4.11.3: Identify the steps to manage certificates in NSX

Objective 4.12: Given a scenario, identify how to manage passwords in VMware Cloud Foundation including supported components and options

Objective 4.12.1: Identify the steps to manage passwords in SDDC Manager

- Objective 4.12.2: Identify the steps to manage passwords in Aria Suite Lifecycle
- Objective 4.12.3: Identify the steps to manage passwords in NSX
- Objective 4.13: Given a scenario, identify how to apply a license to a VMware Cloud Foundation component

Objective 4.14: Given a scenario, identify how to apply a subscription-based license to VMware Cloud Foundation+

Objective 4.15: Determine when and how to use the SDDC API.

Objective 4.16: Identify the function of vSphere Lifecycle Management in VMware Cloud Foundation

Objective 4.17: Identify the components that can be supported and upgraded using SDDC manager / VMware Cloud Foundation Lifecycle management

Objective 4.18: Given a scenario, identify available options for online and offline bundle download using SDDC manager / VMware Cloud Foundation Lifecycle management

Objective 4.19: Given a scenario, identify how to upgrade VMware Cloud Foundation software and components

Objective 4.20: Identify how to upgrade for VMware Cloud Foundation components

- Objective 4.20.1: Identify the order to upgrade VCF using SDCC Manager.
- Objective 4.20.2: Identify the order to upgrade VCF using Aria Suite Lifecycle.

Objective 4.21: Identify the use case and purpose of the VMware Cloud Foundation async patch tool

Objective 4.22: Identify steps in the SDDC Manager backup and restore process

Objective 4.23: Identify the steps to gracefully shut down/power on a VMware Cloud Foundation environment

Objective 4.24: Identify the steps to configure application virtual networks in the VCF management domain

Objective 4.25: Identify the steps to configure Aria Suite Lifecycle in VMware Cloud Foundation

Objective 4.26: Identify the steps to create a workload domain

Objective 4.27: Given a scenario, identify the steps to scale a workload domain

Objective 4.28: Identify the steps to delete a workload domain

Objective 4.29: Given a scenario, identify the steps to commission and decommission hosts for re-use

Objective 4.30: Given a scenario, identify the control plane VM management networking requirements

Objective 4.31: Given a scenario, identify the appropriate IP address CIDR ranges for pod, ingress, and egress networking

Objective 4.32: Given a scenario, identify the steps to configure vSphere with Tanzu in VMware Cloud Foundation

Objective 4.33: Identify the steps to create a vSphere with Tanzu Supervisor namespace

Objective 4.34: Identify the steps to configure limits and permissions for a vSphere with Tanzu Supervisor namespace

Section 5 – Troubleshoot and Optimize the VMware Solution

Objective 5.1: Identify the steps to perform checks and create log bundles with the SoS tool

Courses used to develop this exam and strongly recommended to you for exam preparation:

VMware Cloud Foundation: Deploy, Configure, Manage [V5.0]

VMware Cloud Foundation: Deploy, Configure, Manage [V5.0] - On Demand

Certification Alignment

VMware Certified Specialist - VMware Cloud Foundation Deployment 2024

References

No additional resources.

Exam Contributors

Abdullah Abdullah

Chris Mutchler

Christopher Lewis

Erik Verbruggen

Jerry Ozbun

Joel West

Karel Novak

Maciej Losek

Marc van de Logt

Martin Gustafsson

Mohamad Al Hussein

Pawel Piotrowski

Ranjna Aggarwal

Richard van Dantzig

Sjaak Bakker

Vincent van Vierzen

Yves Sandfort