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VMware vSphere Foundation 5.2 Administrator

Exam Details (Last Updated: 04/01/2025)

The VMware vSphere Foundation 5.2 Administrator (2V0-12.24) exam, which leads to VMware Certified Professional – VMware vSphere Foundation Administrator certification (VCP-VVF Administrator), is an exam offers in both English (55 items) and Japanese (42 items) with a passing score of 300 based on a scaled scoring method.". Candidates are given an appointment time of 115 minutes, which includes adequate time to complete the exam for non-native English speakers.

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 candidate can install, configure, manage, and perform basic troubleshooting of the VMware vSphere Foundation (VVF) solution but occasionally needs to research topics or request assistance. The candidate should have at least six months or more of experience working with the VVF solution and all its components. The candidate should have one to two years or more of experience working in IT. The candidate is knowledgeable of the features, functions, and architectures of all VVF components which include the following: VMware vSphere Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, Aria Operations, Aria Operations for Logs, and Aria Suite Lifecycle.

The candidate may occasionally need to research some topics related to the aforementioned components or request assistance. The candidate has advanced level experience working with vSphere and its command line but occasionally needs to research topics or request assistance. The candidate may need to research some VVF related topics. The candidate possesses most of the knowledge shown in the exam sections (blueprint).

Exam Sections

VMware by Broadcom exam blueprint sections are now standardized into 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 by Broadcom Solution

Section 3 – Plan and Design the VMware by Broadcom Solution

Section 4 – Install, Configure, Administrate the VMware by Broadcom Solution

Section 5 – Troubleshoot and Optimize the VMware by Broadcom Solution

If a section does not have testable objectives in this version of the exam, it will be noted 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.

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Sections Included in this Exam

Section 1 - IT Architectures, Technologies, Standards

NO TESTABLE OBJECTIVES IN THIS SECTION

Section 2 - VMware by Broadcom Solution

Objective 2.1 - Identify and describe VMware vSphere Foundation (VVF) components and architecture.

Objective 2.1.1 - Identify and describe ESXi.

Objective 2.1.2 - Identify and describe vSphere Standard.

Objective 2.1.3 - Identify and describe vSphere with Tanzu.

Objective 2.1.4 - Identify and describe vSAN.

Objective 2.1.5 - Identify and describe Aria Operations.

Objective 2.1.6 - Identify and describe Aria Operations for Logs.

Objective 2.1.7 - Identify and describe Aria Suite Lifecycle.

Objective 2.2 - Describe the requirements for implementing the VMware vSphere Foundation (VVF) solution and its components.

Objective 2.2.1 - Describe the requirements for implementing ESXi.

Objective 2.2.2 - Describe the requirements for implementing vSphere Standard.

Objective 2.2.3 - Describe the requirements for implementing vSphere with Tanzu.

Objective 2.2.4 - Describe the requirements for implementing vSAN.

Objective 2.2.5 - Describe the requirements for implementing Aria Operations.

Objective 2.2.6 - Describe the requirements for implementing Aria Operations for Logs.

Objective 2.2.7 - Describe the requirements for implementing Aria Suite Lifecycle.

Objective 2.3 - Identify and describe the various use cases for VMware vSphere Foundation (VVF) and its components.

Objective 2.3.1 - Identify and describe the use case(s) for ESXi.

Objective 2.3.2 - Identify and describe the use case(s) for vSphere Standard.

Objective 2.3.3 - Identify and describe the use case(s) for vSphere with Tanzu.

Objective 2.3.4 - Identify and describe the use case(s) for vSAN.

Objective 2.3.5 - Identify describe the use case(s) for Aria Operations.

Objective 2.3.6 - Identify and describe the use case(s) for Aria Operations for Logs.

Objective 2.3.7 - Identify and describe the use case(s) for Aria Suite Lifecycle.

Section 3 - Plan and Design the VMware by Broadcom Solution

NO TESTABLE OBJECTIVES IN THIS SECTION

Section 4 - Install, Configure, Administrate the VMware by Broadcom Solution

Objective 4.1 - Perform Day 1 Initial Install of VMware vSphere Foundation (VVF) components.

Objective 4.1.1 - Install and configure ESXi.

Objective 4.1.2 - Install and configure vSphere Standard.

Objective 4.1.3 - Install and configure vSphere with Tanzu.

Objective 4.1.4 - Install and configure vSAN.

Objective 4.1.5 - Install and configure Aria Operations.

Objective 4.1.6 - Install and configure Aria Operations for Logs.

Objective 4.1.7 - Install and configure Aria Suite Lifecycle.

Objective 4.2 - Perform Day 2 Operations within VMware vCenter.

Objective 4.2.1 - Configure Role-based Access Control to vCenter.

Objective 4.3 - Manage the lifecycle of a virtual machine.

Objective 4.3.1 - Create a virtual machine template.

Objective 4.3.2 - Create a virtual machine from a VM Template.

Objective 4.3.3 - Create a virtual machine from an ISO/OVA.

Objective 4.3.4 - Destroy a virtual machine.

Objective 4.3.5 - Manage virtual machine snapshots.

Objective 4.3.6 - Complete Day 2 Operations on a virtual machine.

Objective 4.4 - Configure vSphere Networking components.

Objective 4.4.1 - Configure a Virtual Distributed Switch.

Objective 4.4.2 - Configure Network IO Control.

Objective 4.4.3 - Configure a Port Group.

Objective 4.5 - Configure Content Libraries to manage resources.

Objective 4.5.1 - Create a Content Library.

Objective 4.5.2 - Publish a Content Library.

Objective 4.5.3 - Subscribe to a Content Library.

Objective 4.6 - Configure vSphere storage components.

Objective 4.6.1 - Configure VM storage policies.

Objective 4.7 - Manage ESXi hosts.

Objective 4.7.1 - Manage the host lifecycle using VMware Lifecycle Manager images.

Objective 4.7.2 - Secure an ESXi host.

Objective 4.7.3 - Configure an ESXi host and host profile.

Objective 4.8 - Secure workloads and infrastructure using encryption.

Objective 4.8.1 - Identify how to secure workloads using Virtual Machine Encryption.

Objective 4.8.2 - Identify how to secure workloads using host-based encryption.

Objective 4.8.3 - Identify how to secure vMotion with encryption.

Objective 4.9 - Perform Day 2 Operations for VMware vSAN.

Objective 4.9.1 - Configure and manage storage resources, policies, and performance using VMware vSAN and other storage technologies.

Objective 4.9.2 - Identify the procedure for setting vSAN in maintenance mode.

Objective 4.9.3 - Identify the steps to add storage to a vSAN datastore.

Objective 4.9.4 - Identify the use cases for enabling/disabling vSAN health alerts.

Section 5 - Troubleshoot and Optimize the VMware by Broadcom Solution

Objective 5.1 - Diagnose and identify technical issues related to the VMware vSphere Foundation (VVF) solution.

Objective 5.1.1 - Identify the relevant tools for troubleshooting technical issues related to VMware vSphere Foundation (VVF).

Objective 5.1.2 - Diagnose and identify technical issues related to VMware vSphere (including hosts, clusters, and storage).

Objective 5.1.3 - Diagnose and identify technical issues related to VMware vSphere.

Objective 5.1.4 - Diagnose and identify technical issues related to VMware vSAN.

Objective 5.2 - Perform troubleshooting tasks for vSphere.

Objective 5.2.1 - Identify the procedure for setting a host in maintenance mode.

Objective 5.2.2 - Resolve host connectivity issues.

Objective 5.2.3 - Resolve certificate issues

Objective 5.2.4 - Troubleshoot vCLS.

Objective 5.2.5 - Troubleshoot snapshot issues.

Objective 5.2.6 - Troubleshoot vSphere HA host states.

Objective 5.2.7 - Troubleshoot lifecycle management.

Objective 5.3 - Perform troubleshooting tasks for vSphere Networking.

Objective 5.4 - Perform troubleshooting tasks for vSAN.

Objective 5.4.1 - Resolve connectivity or configuration issues with vSAN in VMware Cloud Foundation.

Objective 5.4.2 - Recover from a disk or controller failure in vSAN.

Objective 5.4.3 - Identify the process to update the vSAN database.

Objective 5.4.4 - Identify the process to update the driver/firmware in vSAN.

Objective 5.4.5 - Interpret the Skyline vSAN Health Score and complete remediation action(s).

Objective 5.5 - Perform troubleshooting tasks with VMware vSphere Foundation (VVF) Aria components.

Objective 5.5.1 - Generate and analyze reports on infrastructure performance, capacity, utilization, and compliance.

Objective 5.5.2 - Optimize resource allocation and utilization to ensure efficient operation.

Objective 5.5.3 - Identify and implement improvements to enhance the efficiency, performance, and reliability of the VMware vSphere Foundation (VVF) environment.

Objective 5.5.4 - Verify the health of a VMware vSphere Foundation deployment.

Recommended Courses

VMware Cloud Foundation: Deploy, Manage, Configure

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 any recommended training.

Name	Products
http://www.vmware.com	VMware vSphere Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, Aria Operations, Aria Operations for Logs, and Aria Suite Lifecycle
https://support.broadcom.com	VMware vSphere Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, Aria Operations, Aria Operations for Logs, and Aria Suite Lifecycle
https://blogs.vmware.com	VMware vSphere Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, Aria Operations, Aria Operations for Logs, and Aria Suite Lifecycle
https://docs.vmware.com	VMware vSphere Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, Aria Operations, Aria Operations for Logs, and Aria Suite Lifecycle
https://www.vmware.com/techpapers.html	VMware vSphere Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, Aria Operations, Aria Operations for Logs, and Aria Suite Lifecycle
*Content in this exam is based on VVF 5.2. Review all 5.2 release notes and material for features and functions.	

Exam Content Contributors

Abdullah Abdullah

Tim Burkard

Jens Hennig

Karel Novak

Sjaak Bakker

Tommy Grot