# VMware Cloud Foundation 5.2 Architect

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

The VMware Cloud Foundation 5.2 Architect (2V0-13.24) exam, which leads to VMware Certified Professional – VMware Cloud Foundation Architect certification (VCP-VCF Architect), is a 60-items exam offers both English and Japanese with a scaled method. Candidates are given an appointment time of 135 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 design a VMware Cloud Foundation (VCF) solution that meets stakeholder requirements. They have a fundamental understanding of VCF architecture, including compute, storage, networking, and cloud management. The candidate is capable of translating business objectives into a technical solution while considering design characteristics such as availability, manageability, performance, recoverability and security (AMPRS).

The candidate can differentiate between a conceptual model and both logical and physical designs and understands the distinctions between business and technical requirements. They are able to identify, assess and document risks, assumptions, dependencies, and constraints that may impact the design of a VCF solution. Additionally, they understand the implications of their design decisions on both broader VMware-based solutions and the customer technology landscape.

The candidate should have an understanding of capacity planning, disaster recovery, scalability, security, solution interoperability, and compatibility and can apply this knowledge to when designing VCF-based solutions. They are familiar with core data center services (including DNS and NTP) and can apply this knowledge when making design decisions. While the candidate can operate independently when creating designs, they may occasionally seek additional resources or support for complex or edge use cases.

The candidate should have at least one to two years of experience in designing VMware-based solutions, including six months or more working specifically with VCF. They are knowledgeable about some or all of the components of the VCF platform, including vSphere, vSAN, NSX, and Aria Suite. The candidate possesses most of the knowledge shown 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 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.

## Sections Included in this Exam

Section 1 - IT Architectures, Technologies, Standards

- Objective 1.1 - Differentiate between business and technical requirements
- Objective 1.2 - Differentiate between a Conceptual Model, logical design and physical design
- Objective 1.3 - Differentiate between requirements, assumptions, constraints and risks
- Objective 1.4 - Differentiate between availability, manageability, performance, recoverability and security (AMPRS)
- Objective 1.5 - Develop and document a risk mitigation strategy
- Objective 1.6 - Document design decisions
- Objective 1.7 - Develop a design validation strategy

Section 2 - VMware by Broadcom Solution

- Objective 2.1 - Based on a scenario, differentiate between VMware Cloud Foundation architecture options

Section 3 - Plan and Design the VMware by Broadcom Solution

- Objective 3.1 - Gather and analyze business objectives and requirements
- Objective 3.2 - Given a set of business objectives, create a conceptual model
- Objective 3.3 - Create VMware Cloud Foundation logical designs
  - Given a scenario, identify the prerequisites for VMware Cloud Foundation
  - Given a scenario, identify the design decision(s) to support a Network Infrastructure - Logical Design
  - Given a scenario, identify the design decision(s) to support a VCF Management Domain - Logical Design
  - Given a scenario, identify the design decision(s) to support a VCF Workload Domain - Logical Design
  - Given a scenario, identify the design decision(s) to support a VCF Edge Cluster - Logical Design
  - Given a scenario, identify the design decision(s) to support a VCF Cloud Automation - Logical Design
  - Given a scenario, identify the design decision(s) to support a VCF Cloud Operations - Logical Design
- Objective 3.4 - Create VMware Cloud Foundation physical designs
  - Given a scenario, identify the prerequisites for VMware Cloud Foundation
  - Given a scenario, identify the design decision(s) to support a Network Infrastructure - physical design
  - Given a scenario, identify the design decision(s) to support a VCF Management Domain - physical design
  - Given a scenario, identify the design decision(s) to support a VCF Workload Domain - physical design
  - Given a scenario, identify the design decision(s) to support a VCF Edge Cluster - physical design
  - Given a scenario, identify the design decision(s) to support a VCF Cloud Automation - physical design
  - Given a scenario, identify the design decision(s) to support a VCF Cloud Operations - physical design
- Objective 3.5 - Design for Availability
  - Given a scenario, identify the design decision(s) to support a solution that provides availability within an availability zone

- Given a scenario, identify the design decision(s) to support a solution that provides availability across availability zones

Objective 3.6 - Design for Manageability

- Design for Lifecycle Management
  - Given a scenario. Identify the design decisions(s) and requirements to leverage VCF LCM within the design
- Design for Scalability
  - Given a scenario, identify design decision(s) to support scaling a VCF Solution
- Design for Capacity Management
  - Given a scenario, size a VCF deployment
  - Given a scenario, identify requirements and design decisions for capacity management

Objective 3.7 - Design for Performance

- Given a scenario, identify design decision(s) that meet performance requirement

Objective 3.8 - Design for Recoverability

- Differentiate between BCDR strategies for Management Components and Workloads
- Given a scenario, identify the design decision(s) to meet Business Continuity requirements
- Given a scenario, identify the design decision(s) to meet Disaster Recovery requirements

Objective 3.9 - Design for Security

- Given a scenario, identify the design decisions for securing VCF Management Components and Workloads.

Objective 3.10 - Design a workload mobility strategy

- Given a scenario, identify the design decisions for workload migration into a VCF environment
- Given a scenario, identify the design decisions for deploying Workload Management in VCF environment

Objective 3.11 - Design a consumption strategy for VMware Cloud Foundation

- Given a scenario, identify the design decisions for VCF Automation Tenant Design
- Given a scenario, identify the design decisions for Self-Service & Governance
- Given a scenario, identify the design decisions for automating VCF infrastructure components

Objective 3.12 - Design a monitoring strategy for VMware Cloud Foundation

- Given a scenario, identify design decisions for monitoring VCF management components
- Given a scenario, identify design decisions for monitoring VCF Workload

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

NO TESTABLE OBJECTIVES THIS SECTION

Section 5 - Troubleshoot and Optimize the VMware by Broadcom Solution

NO TESTABLE OBJECTIVES THIS SECTION

## Recommended Courses

VMware Cloud Foundation: Deploy, Manage, Configure

VMware vSphere: Design

References*

In addition to the recommended courses, item writers use 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 Enterprise Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, NSX Networking, Aria Automation, Aria Operations, Aria Operations for Logs, Aria Suite Lifecycle. Aria Operations for Network, HCX, and DSM |
| https://support.broadcom.com | VMware vSphere Enterprise Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, NSX Networking, Aria Automation, Aria Operations, Aria Operations for Logs, Aria Suite Lifecycle. Aria Operations for Network, HCX, and DSM |
| https://blogs.vmware.com | VMware vSphere Enterprise Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, NSX Networking, Aria Automation, Aria Operations, Aria Operations for Logs, Aria Suite Lifecycle. Aria Operations for Network, HCX, and DSM |
| https://docs.vmware.com | VMware vSphere Enterprise Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, NSX Networking, Aria Automation, Aria Operations, Aria Operations for Logs, Aria Suite Lifecycle. Aria Operations for Network, HCX, and DSM |
| https://www.vmware.com/techpapers.html | VMware vSphere Enterprise Plus (which includes vCenter Standard, ESXi, vSphere with Tanzu), vSAN, NSX Networking, Aria Automation, Aria Operations, Aria Operations for Logs, Aria Suite Lifecycle. Aria Operations for Network, HCX, and DSM |
| *Content in this exam is based on VCF 5.2. Review all 5.2 release notes and material for features and functions. | |

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