Advanced VMware Cloud Foundation 9 vSphere Kubernetes Service (3V0-24.25)

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, visit the VMware Certification website.

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 Cloud Foundation (VCF) Products and Solutions
- Section 3 – Plan and Design
- Section 4 – Deploy, Configure, and Operate
- Section 5 – Troubleshoot and Optimize

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.

Exam Details

The 60-item scaled method exam requires a passing score of 300. The 135-minute appointment provides sufficient time for all candidates, including 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, point-and-click and hot-area. Additional item types may be used but will appear less frequently than those previously mentioned.

Exam Name

Advanced VMware Cloud Foundation 9 vSphere Kubernetes Service (3V0-24.25)

Credential Name

VMware Certified Advanced Professional - VMware Cloud Foundation VKS (VCAP-VCF VKS)

Minimally Qualified Candidate

The Minimally Qualified Candidate (MQC) has 6-12 months of experience working with vSphere Kubernetes Service (VKS) components. The MQC has hands-on experience with containerization, Kubernetes, YAML and concepts of microservices and modern applications platforms. Additionally, the MQC has a general understanding of the installation and setup process for VKS components. The MQC can perform common operational and administrative tasks in an environment where VKS components are present, including advanced deployment and operation of VKS clusters. The MQC can identify and explain the primary functionalities of VKS, including cluster lifecycle management, role-based access control (RBAC), security policies, networking and storage integration, workload deployment and operations, cluster inspection and monitoring, and data protection and backup.

Sections Included in this Exam

Section 1 - IT Architectures, Technologies, Standards
Objective 1.1 -Differentiate between VMs and containers to select the appropriate compute model

Recommended Courses

- VKS Advanced Design
- VKS Advanced Configuration
- VKS Advanced Troubleshooting

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.

Products - The VMware Cloud Foundation 9

- https://www.vmware.com/topics/private-cloud
- https://techdocs.broadcom.com
- https://www.broadcom.com/

*Content in this exam is based on VCF 9. Review all release notes and material for features and functions.

Objective 1.2 - Use Kubernetes architecture, networking, storage, service mesh, and Helm
Objective 1.3 - Determine the reference architecture (NSX, VDS, Zones) for a VKS deployment

Section 2 - VMware Cloud Foundation (VCF) Products and Solutions
Objective 2.1 - Configure vSphere Supervisor capabilities, services, and architecture topologies
Objective 2.2 - Configure Supervisor cluster networking with VDS, NSX Segments, or VPCs and apply appropriate load balancing solutions
Objective 2.3 - Configure Supervisor storage policies and persistent volume integration across zones
Objective 2.4 - Configure VKS identity and access using external providers and Kubernetes admin credentials
Objective 2.5 - Manage Kubernetes releases and content libraries (subscribed, local, and air-gapped) for VKS clusters
Objective 2.6 - Configure CNIs, NSX networking objects, and TLS certificates and secure VKS clusters

Section 3 - Plan and Design
Objective 3.1 - Evaluate the implication for Load Balancer size on Supervisor functionality
Objective 3.2 - Evaluate the implication for Namespace Network options
Objective 3.3 - Evaluate the architecture of vSphere namespaces with ingress and egress options
Objective 3.4 - Create the process of enabling a Supervisor cluster
Objective 3.5 - Create an implementation of service mesh

Section 4 - Deploy, Configure, and Operate VMware Cloud Foundation (VCF)
Objective 4.1 - Create Supervisor clusters with NSX VPC, NSX Segment, vDS, and Avi load balancer options
Objective 4.2 - Configure and manage vSphere Namespaces and Zones
Objective 4.3 - Create workloads as Supervisor Pods or via VM Service
Objective 4.4 - Install, uninstall, and manage Supervisor add-on services (e.g., Harbor, external-dns)
Objective 4.5 - Provision, delete, monitor and scale VKS clusters using kubectl and VCF CLI tools
Objective 4.6 - Update VKS clusters through rolling updates and configuration changes
Objective 4.7 - Create, configure, and upgrade autoscalers
Objective 4.8 - Manage package repositories, standard packages, registry secrets, and private registries
Objective 4.9 - Create and manage snapshots in VKS clusters
Objective 4.10 - Upgrade the Supervisor Service within a given situation
Objective 4.11 - Create storage strategies using dynamic and static persistent volumes with support for expansion
Objective 4.12 - Create workload deployment models, including pods, VMs, ingress controllers, and private registries
Objective 4.13 - Implement backup and restore strategies using Velero with external object storage
Objective 4.14 - Edit YAML code to modify VKS deployment

Section 5 - Troubleshoot and Optimize
Objective 5.1 - Diagnose and resolve Supervisor and VKS cluster provisioning, connectivity, or namespace errors

Objective 5.2 - Troubleshoot VM class, cluster plans, content library, storage, and networking errors
Objective 5.3 - Troubleshoot container deployment, registry, and trusted CA errors
Objective 5.4 - Restart or recover failed VKS upgrades
Objective 5.5 - Optimize cluster performance using monitoring and scaling features

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