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Professional VMware vRealize Automation 8.3

Exam Details (Last Updated: 08/18/2021)

The Professional VMware vRealize Automation 8.3 (2V0-31.21) exam, which leads to VMware Certified Professional – Cloud Management and Automation 2021 certification, is a 67-item exam with a passing score of 300 using a scaled method. Candidates are given an appointment time of 130 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 minimally qualified candidate (MQC) has 6-12 months hands-on experience installing and configuring vRealize Automation and is familiar with the vRealize Suite products. The candidate is typically an administrator who can perform both a standard single-tenant as well as a multi-tenant deployment. The candidate is also comfortable managing vRealize Automation using vRealize Suite Lifecycle Manager and troubleshooting a vRealize Automation 8.3 solution. The candidate possesses an understanding of basic cloud concepts including public/private/hybrid clouds, multi-tenancy, storage, networking, and security. The candidate has working knowledge of each of the individual vRealize Automation services including Cloud Assembly, Service Broker, Code Stream, SaltStack Config, and Orchestrator. The candidate has working knowledge of extensibility, identity and access management, and basic knowledge of Kubernetes clusters and Terraform.

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.

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Sections Included in this Exam

Section 1 – Architecture and Technologies

> Objective 1.1 – Describe the architecture of vRealize Automation (Kubernetes pods, Workspace ONE Access, Lifecycle Manager)

> Objective 1.2 – Differentiate between vRealize Automation vs vRealize Automation cloud

> Objective 1.3 – Describe the services offered by vRealize Automation (Cloud Assembly, Service Broker, Code Stream, Orchestrator, and SaltStack Config)

Section 2 – There are no testable objectives for this section.

Section 3 – There are no testable objectives for this section.

Section 4 – Installing, Configuring, and Setting Up

> Objective 4.1 – Describe the different types of vRealize Automation deployments (standard vs. clustered, vRA Envrion Scale Out)

> Objective 4.2 – Prepare the pre-requisites for the installation (DNS, NTP, Service Accounts etc.)

> Objective 4.3 – Perform a simple installation using vRealize Easy Installer

> Objective 4.4 – Configure vRealize Automation using Quick Start

> Objective 4.5 – Perform manual installation using Lifecycle Manager (Workspace ONE Access and vRealize Automation and vRA Envrion Scale Out)

> Objective 4.6 – Configure identity sources (add a directory)

> Objective 4.7 – Configure identity and access management (RBAC)

> Objective 4.8 – Set up Cloud Accounts (NSX Constructs)

> Objective 4.9 – Add Cloud Zones

> Objective 4.10 – Add Projects

> Objective 4.11 – Add Image Mappings

> Objective 4.12 – Add Flavor Mappings

> Objective 4.13 – Add Network Profiles

> Objective 4.14 – Add Storage Profiles

> Objective 4.15 – Describe different types of basic integrations available with vRealize Automation ("out of the box")

> Objective 4.16 – Integrate vRealize Automation with vRealize Operations (Native Integration and Dashboards)

> Objective 4.17 – Describe the Onboarding Process

> Objective 4.18 – Describe ABX

> Objective 4.19 – Describe Different Types of Tags in vRealize Automation

> Objective 4.20 – Configure Capability Tags

> Objective 4.21 – Install SaltStack Config using vRealize Suite Lifecycle Manager

> Objective 4.22 – Create Cloud Template to Deploy Minions

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Objective 4.23 – Pre-requisites for Configuring Multi-tenancy

Objective 4.24 – Configure Code Stream Endpoints and Basic Pipelines

Objective 4.25 – Describe the Use Case of Integrating Terraform with vRA

Section 5 – There are no testable objectives for this section.

Section 6 – Troubleshooting and Repairing

Objective 6.1 – Collect log bundles

Objective 6.2 – Describe "vracli" commandlet options

Objective 6.3 – Describe "kubectl" (vRA Appliance) commandlet options

Objective 6.4 – Troubleshoot vRealize Automation configuration errors (Cloud Zone, tags, YAML, etc.)

Objective 6.5 – Troubleshoot provisioning errors

Objective 6.6 – Monitor deployments (provisioning diagram)

Objective 6.7 – Monitor vRO workflow execution (extensibility and event logs)

Section 7 – Administrative and Operational Tasks

Objective 7.1 – Manage the Identity and Access Management tab (vRA organization and service roles)

Objective 7.2 – Manage Cloud Accounts

Objective 7.3 – Manage Cloud Zones

Objective 7.4 – Manage Projects

Objective 7.5 – Manage Image Mappings

Objective 7.6 – Manage Flavor Mappings

Objective 7.7 – Manage Capability and Constraint Tags

Objective 7.8 – Manage Storage Profiles

Objective 7.9 – Manage Network Profiles

Objective 7.10 – Create and Manage Cloud Templates (Cloud Templates Inputs, YAML file and its syntax, NSX-T On-Demand Network Contructs)

Objective 7.11 – Create and manage Cloud Template Versions

Objective 7.12 – Manage Extensibility/Subscription (ABX/vRealize Orchestrator)

Objective 7.13 – Deploy Catalog items

Objective 7.14 – Manage deployments

Objective 7.15 – Describe Kubernetes clusters (Kubernetes zone)

Objective 7.16 – Customize a deployment using CloudConfig/Cloud-Init

Objective 7.17 – Create Service Broker Content Sources

Objective 7.18 – Configure Content Sharing

Objective 7.19 – Create and Manage Custom Forms

Objective 7.20 – Manage Policies (definition and enforcement)

Objective 7.21 – Manage notifications (email servers)

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Objective 7.22 – Manage Virtual Private Zones (VPZs)

Certification Requirements

VCP-CMA Certification

Recommended Courses

VMware vRealize Automation: Install, Configure, Manage [V8.3]

Name	Products
References*	
http://www.vmware.com	vRealize Automation 8.3
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.	
http://kb.vmware.com	vRealize Automation 8.3
https://blogs.vmware.com	vRealize Automation 8.3
https://docs.vmware.com	vRealize Automation 8.3
https://www.vmware.com/support/pubs/	vRealize Automation 8.3
https://www.vmware.com/techpapers.html	vRealize Automation 8.x
http://pubs.vmware.com	vRealize Automation 8.3
*Content in this exam is based on version 8.3. Review all 8.3 release notes and material for features and function.	

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