

VMWARE VREALIZE AUTOMATION: ORCHESTRATION AND EXTENSIBILITY [V8.1]

Course Level:

Advanced

Course Duration:

5 Days

Course Overview:

During the five-day VMware vRealize Automation: Orchestration and Extensibility [V8.1] training course from CloudThat, candidates learn how to use VMware vRealize Orchestrator to expand the functionality of VMware vRealize Automation. Also, this course teaches candidates how to create vRealize Automation ABX actions, create vRealize Orchestrator workflows, and how to implement Machine Lifecycle Extensibility using the VMware vRealize Automation Event Broker and provide XaaS (Anything as a Service).

By taking up this VMware certification training, candidates also learn how to implement, debug, loop, condition, and user interactions in vRealize Orchestrator. It also introduces learners to new vRealize Orchestrator HTML 5 interface along with REST functions and API calls to help implement a variety of scripts and plugins.





Product Alignment

- VMware vSphere 7.0
- VMware vRealize Automation 8.1
- VMware vRealize Orchestrator 8.1
- VMware vRealize Suite Lifecycle Manager 8.1


Prerequisites

This course requires the following prerequisites:

Knowledge of VMware vSphere

VMware vRealize Automation: Install, Configure, Manage [V8.x] course or equivalent knowledge

Working knowledge of scripting or programming using JavaScript, Windows PowerShell, Perl, Java, Python, or similar languages. All code is provided during class.



Objectives



Describe the features and benefits of integrating vRealize Orchestrator and vRealize Automation



Describe the role of vRealize Orchestrator workflows and content elements in automation



Use the vRealize Orchestrator client to access and navigate the vRealize Orchestrator platform



Use the vRealize Orchestrator client to import and run vRealize Orchestrator library workflows

Design, develop, and run custom reusable vRealize Orchestrator workflows



Integrate vRealize Automation with vRealize Orchestrator to deliver custom IT services



Use the vRealize Automation event broker service to trigger specific vRealize Orchestrator workflows



Leverage the event broker to extend IaaS (Infrastructure-as-a-Service) machine lifecycle processes



Use XaaS to extend vRealize Automation into other enterprise systems



Use VMware APIs to run vRealize Orchestrator workflows

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Course Outline

Module 1: Course Introduction

Topics

- Introductions and course logistics
- Course objectives

Module 3: Creating Schema Elements

Topics

- Invoking JavaScript from a vRealize Orchestrator workflow
- Invoking a vRealize Orchestrator Workflow from a vRealize Orchestrator workflow
- Invoking an action from a vRealize Orchestrator workflow
- Using vRealize Orchestrator workflows both synchronously and asynchronously

Module 2: Overview of vRealize Automation and vRealize Orchestrator

Topics

- Define the purpose of vRealize Automation
- Outline the purpose of vRealize Orchestrator
- Describe the main components of vRealize Automation
- Describe the main components of vRealize Orchestrator

Course Outline

Module 4: Working with Variables

Topics

- Defining inputs, outputs, and variables in vRealize Orchestrator workflows
- Binding variables in vRealize Orchestrator workflows
- Wrapping vRealize Orchestrator workflows
- Using APIs and the API Explorer
- Creating actions in vRealize Orchestrator
- Using vRealize Orchestrator input forms
- Handling user interactions in vRealize Orchestrator

Module 5: Handling Exceptions, Logging, and Debugging

Topics

- Handling exceptions in vRealize Orchestrator workflows
- Using logs in vRealize Orchestrator workflows
- Debugging vRealize Orchestrator workflows

Module 6: Branching and Looping

Topics

- Using branching in vRealize Orchestrator workflows
- Using loops in vRealize Orchestrator workflows

Module 7: Working with Assets

Topics

- Using configuration elements in vRealize Orchestrator
- Using resources in vRealize Orchestrator
- Using packages in vRealize Orchestrator

Course Outline

Module 8 : Working with Plug-Ins

Topics

- Downloading and installing Plug-Ins
- Using the SSH plug-In in vRealize Orchestrator
- Using the REST plug-in in vRealize Orchestrator
- Using the SOAP plug-in in vRealize Orchestrator
- Using the PowerShell plug-in in vRealize Orchestrator

Module 9: Working with Versioning and Git

Topics

- Using versioning in vRealize Orchestrator
- Using Git in vRealize Orchestrator

Module 10 : Scheduling, Sleeping, and Waiting

Topics

- Using scheduling in vRealize Orchestrator
- Using sleeping in vRealize Orchestrator
- Using waiting in vRealize Orchestrator

Module 11 : Introduction to vRealize Automation Extensibility

Topics

- Introduction to extensibility
- Using AB1X actions
- Using Python
- Using Nodejs
- Using PowerShell
- Using vRealize Automation Lifecycle

Course Outline

Module 12 :Extending vRealize Automation with Event Broker

Topics

- Overview of vRealize Automation Event Broker
- Creating vRealize Automation subscriptions
- Data exchange between vRealize Automation and vRealize Orchestrator

Module 13: Using Code Stream

Topics

- Overview of Action Based Extensibility (ABX)
- Comparison of vRealize Orchestrator and ABX
- Using Day-2 Actions in vRealize Automation

Module 14: Working with Services, Custom Resources, and Resource Actions

Topics

- Using vRealize Orchestrator as a content source in vRealize Automation
- Using Day-2 Actions in vRealize Automation
- Creating custom resources in vRealize Automation
- Creating resource actions in vRealize Automation



Who Should Enroll for this Course?

Experienced VMware administrators, automation and orchestration specialists, system integrators, and private cloud and public cloud administrators.

About CloudThat

CloudThat is the first company in India to offer Cloud Training & Consulting services for mid-market & enterprise clients from across the globe. Since our inception in 2012, we have trained over 500K+ IT professionals from fortune 500 companies on technologies such cloud, Artificial Intelligence, Machine Learning, IoT, OpenStack, OpenShift, DevOps, MongoDB, Big Data and more.

Through sheer dedication and excellence in the field of cloud training, CloudThat has recently being recognized as **VMware Authorized Training Reseller**. In addition, CloudThat is a proud Microsoft Gold Partner, AWS Advanced Consulting Partner, Google Cloud Platform Partner, and Databricks Partner. Recently, we have won the Microsoft Asia Superstar Campaign for India-2021 for being a global leader in providing cloud training and consultancy services with exemplary track record.

Our Success Track

10+ Years
of Experience

100+
Corporates served

28+
countries catered

500K+
Professionals trained

200+
Projects delivered

350+
Cloud certifications

To know more about our VMware certification training, email at sales@cloudthat.com or call us at +918880002200.

