



VMware vRealize Automation: Orchestration & Extensibility

Duration: 5 Days Course Code: VMRAOE Version: 8.6 Delivery Method: Virtual Classroom

Overview:

During this vRealize Automation five-day course, you focus on using VMware vRealize® Orchestrator™ to extend the functionality of VMware vRealize® Automation™. You learn how to provide XaaS (Anything as a Service) and implement Machine Lifecycle Extensibility using the VMware vRealize® Automation™ Event Broker. You also learn how to create vRealize Orchestrator workflows and vRealize Automation ABX actions. You learn about various features, including basic scripting implementation along with logic processing to implement a variety of functions to use in your environment.

This course teaches implementing debugging, loops, conditions, and user interactions in vRealize Orchestrator. The course introduces the new vRealize Orchestrator HTML 5 interface, along with API calls and REST functions, to give you the groundwork to implement a variety of plugins and scripts. This course is designed to give you the tools to craft custom solutions in the product.

Product Alignment: VMware vSphere® 7.0VMware vRealize Automation 8.6VMware vRealize Orchestrator 8.6VMware vRealize® Suite Lifecycle ManagerTM 8.6

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

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

Objectives:

- By the end of the course, you should be able to meet the following 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 or ABX Actions
- Leverage the event broker to extend laaS (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
- Use the vSphere Client Code Capture feature

Prerequisites:

This course requires the following prerequisites:

- Knowledge of VMware vSphere®
- VMware vRealize Automation: Install, Configure, Manage [V8.3] course or equivalent knowledge



Content:

1 Course Introduction	Debugging vRealize Orchestrator workflows	Using Python
Introductions and course logistics	6 Branching and Looping	Using Nodejs
Course objectives	Using branching in vRealize Orchestrator workflows	Using PowerShell
2 Overview of vRealize Automation and vRealize Orchestrator	Using loops in vRealize Orchestrator vertiliare.	Using vRealize Automation Lifecycle
Define the purpose of vRealize Automation	workflows 7 Working with Assets	12 Extending vRealize Automation with Event Broker
Outline the purpose of vRealize Orchestrator	Using configuration elements in vRealize	Overview of vRealize Automation Event Broker
• Describe the main components of vRealize Automation	Orchestrator	Creating vRealize Automation subscriptions
	Using resources in vRealize Orchestrator	
Describe the main components of vRealize Orchestrator	Using packages in vRealize Orchestrator	Data exchange between vRealize Automation and vRealize Orchestrator
3 Creating Schema Elements	8 Working with Plug-Ins	13 Using ABX Actions
Invoking JavaScript from a vRealize Orchestrator workflow	Downloading and installing Plug-Ins	Overview of Action Based Extensibility (ABX)
Invoking a vRealize Orchestrator Workflow from a vRealize Orchestrator workflow	Using the SSH plug-In in vRealize Orchestrator	Comparison of vRealize Orchestrator and ABX
Invoking an action from a vRealize Orchestrator workflow	Using the REST plug-in in vRealize Orchestrator	Creating ABX Actions scripts, REST, and flows
Using vRealize Orchestrator workflows both synchronously and asynchronously	Using the vRealize Automation plug-in in vRealize Orchestrator	Using Day-2 Actions in vRealize Automation
4 Working with Variables	Using the PowerShell plug-in in vRealize Orchestrator	Describe the visualization capabilities of NSX Network Detection and Response
Defining inputs, outputs, and variables in vRealize Orchestrator workflows	9 Working with Versioning and Git	14 Working with Services, Custom Resources, and Resource Actions
Binding variables in vRealize Orchestrator workflows	Using versioning in vRealize Orchestrator	Using vRealize Orchestrator as a content source in vRealize Automation
	Using Git in vRealize Orchestrator	
Wrapping vRealize Orchestrator workflows	10 Scheduling, Sleeping, and Waiting	Creating custom resources in vRealize Automation
Using APIs and the API Explorer	Using scheduling in vRealize Orchestrator	Creating resource actions in vRealize Automation

- Creating actions in vRealize Orchestrator
- Using vRealize Orchestrator input forms
- Handling user interactions in vRealize Orchestrator
- 5 Handling Exceptions, Logging, and Debugging
- Handling exceptions in vRealize Orchestrator workflows
- Using logs in vRealize Orchestrator workflows

- Using sleeping in vRealize Orchestrator
- Using waiting in vRealize Orchestrator
- 11 Introduction to vRealize Automation Extensibility
- Introduction to extensibility
- Using ABX actions

- Using Day-2 Actions in vRealize Automation
- 15 Using vSphere Client Code Capture
- Enabling vSphere Client code capture
- Using vSphere Client code capture to capture code in vRO, Javascript, PowerCLI or other languages.
- Using the captured code in vRealize Orchestrator workflows or actions.

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278 training@globalknowledge.com.sa www.globalknowledge.com/en-sa/

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