
VMware vRealize Automation: Orchestration and Extensibility

Duration: 5 Days **Course Code: VMRAOE** **Version: 8.1**

Overview:

During this five-day VMware vRealize 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. Features covered in the course include 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.

This vRealize course introduces the new vRealize Orchestrator HTML 5 interface, along with API calls and REST functions, to give 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® 6.7 U2 VMware vRealize Automation 8.1 VMware vRealize Orchestrator™ 8.1 VMware vRealize Suite Lifecycle Manager 8.0 VMware NSX® for vSphere® 6.4.4

Target Audience:

Experienced VMware administrators, automation and orchestration specialists System integrators 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 service
 - 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 life cycle processes
 - Use XaaS to extend vRealize Automation into other enterprise systems
 - Use VMware APIs to run vRealize Orchestrator workflows
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Prerequisites:

This course requires the following prerequisites:

- Knowledge of VMware vSphere®
 - VMware vRealize Automation: Install, Configure, Manage [V8.x] course (course code VRACICM) 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.
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Content:

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 Overview of vRealize Automation and vRealize Orchestrator

- 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

3 Invoking vRealize Orchestrator Schema Elements

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

4 Working with Variables in vRealize Orchestrator

- 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

5 Handling Exceptions, Logging, and Debugging in vRealize Orchestrator

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

6 Branching and Looping in vRealize Orchestrator

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

7 Working with Assets in vRealize Orchestrator

- Using user configurations in vRealize Orchestrator

Using resources in vRealize Orchestrator

- • Using packages in vRealize Orchestrator

8 Working with Plug-Ins in vRealize Orchestrator

- 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

9 Working with Versioning and Git in vRealize Orchestrator

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

10 Scheduling, Sleeping, and Waiting in vRealize Orchestrator

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

11 Introduction to vRealize Automation Extensibility

- Introduction to extensibility
- Using ABX actions
- Using Python
- Using Nodejs
- Using PowerShell
- Using the vRealize Automation Lifecycle
- Introduction to XaaS

12 Extending vRealize Automation with Event Broker

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

13 Implementing Anything as a Service (XaaS) in vRealize Automation

- Overview of XaaS
- Using Day-2 actions in vRealize Automation

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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