

5 Days

VMware Cloud Orchestration and Extensibility [V7.1]

The course emphasizes on extensibility and advanced administration through the use of vRealize Orchestrator workflows in vRealize Automation. You will explore the use of VMware vRealize Orchestrator 7.1 and VMware vRealize Automation 7.1 for the automation of VMware cloud infrastructure and IT processes in these five days.

Notably, you will also gain practical experience through the completion of hands-on labs.

Product Alignment

- VMware vRealize Orchestrator 7.1
- VMware vRealize Automation 7.1

Objectives:

You should be able to meet the following objectives after the completion of the course:

- Define the features, benefits, components, and integration of vRealize Orchestrator and vRealize Automation
- Integrate vRealize Automation with vRealize Orchestrator instances to extend IaaS machine lifecycle processes as well enhance and deliver custom IT services
- Designing, developing, and running custom reusable vRealize Orchestrator workflows
- Use of VMware APIs in vRealize Orchestrator workflow scripts
- Use of XaaS to extend vRealize Automation into other enterprise systems
- Use of the vRealize Automation event broker to trigger specific vRealize Orchestrator workflows

Course Details

Course Outline

1. Course Introduction

- Introductions and Course Logistics
- Course Objectives

2. Enterprise Cloud Architecture and Components

- Extending Enterprise Systems
- vRealize Automation and the Enterprise
- Unified Self-Service Portal Components
- Managing Provisioned Items
- Converged Blueprint Concepts
- vRealize Orchestrator Overview

3. vRealize Orchestrator Workflow Basics

- Orchestration Workflows
- Logs in Workflows
- Working with Workflows
- Information Flow in Workflows

4. vRealize Orchestrator Workflow Design Considerations

- Configuration and Resource Elements
- Scriptable Tasks and Actions
- Input Presentation
- User Interactions

5. Developing vRealize Orchestrator Workflows

- Decision Elements and Switch Elements
- Creating Loops in Workflows
- Scriptable Tasks and Actions
- Calling vRealize Orchestrator Workflows
- Exception Handling
- Debugging

6. Introduction to vRealize Orchestrator Extensibility

- Introduction to Extensibility
- vRealize Automation Components and Functionality
- VMware NSX® On-Demand Components

7. Extending vRealize Automation with Event Broker

- Event Broker Overview
- Event Broker Functionality

- Event-Based Processes
- Information Exchange Between Event Broker and vRealize Orchestrator

8. Unified Services in vRealize Automation

- XaaS Blueprints and Actions
- vRealize Automation Form Designer

9. API Tools

- API Interfaces Overview
- vRealize Orchestrator REST API Plug-In
- vRealize CloudClient

Who Should Attend

This VMware Cloud v7.1 training Course is ideal for those working with the profiles of:

- System integrators
- Automation specialists
- Orchestration specialists
- Private cloud administrators
- Public cloud administrators
- Experienced VMware administrators

Pre Requisite

- VMware vSphere Knowledge
- VMware vRealize Automation: Install, Configure, manage [V7] course or equivalent knowledge
- Working knowledge of scripting or programming using JavaScript, Windows PowerShell, Java, Perl, Python, or similar languages

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