IBM Cloud Orchestrator 2.4 Practical Application Methods

Information

Length:	5.0 Days
__Ref:	TP331G-X
Delivery method:	ClassroomInstructor Led Online
Price:	AUD

Overview

Learn how to get the most out of a customized implementation of IBM Cloud Orchestrator. You learn to address common use cases such as configuring a multitenancy network, working with Heat and the new virtual system patterns, customizing self-service offerings, working with approvals, interacting with users, and creating and sharing IBM Cloud Orchestrator content. This workshop focuses on taking full advantage of the workflow and orchestration capabilities that are provided to IBM Cloud Orchestrator through Business Process Manager.

Public

This intermediate course is for customers and business partners using IBM Cloud Orchestrator 2.4. The course is designed for Cloud and Domain Administrators who will be creating orchestration processes, performing network configuration, and creating patterns and offerings for deploying cloud applications.

Prerequisits

You should have completed:

- *IBM Cloud Orchestrator 2.4 Administration and Operations (TP303G)***or** its self-paced versions *(TOD22G)* **and** *(TOD23G)*

OR

- *IBM SmartCloud Orchestrator 2.3 Administration and Operations (TP302G)***and** *IBM SmartCloud Orchestrator 2.3 Practical Application Methods (TP330G)*

You should have the following skills:

- Basic understanding of cloud **and** virtualization technologies
- Basic VMware skills
- Basic Linux skills
- Experience with the Administration **and** Operation of IBM Cloud Orchestrator 2.4

Objective

- Use IBM Cloud Orchestrator to create and deploy Heat stacks, virtual system patterns, and virtual system classic patterns
- Build a multitenant Neutron network environment for use with IBM Cloud Orchestrator
- Invoke REST calls to IBM Cloud Orchestrator's REST endpoints
- Build process workflows for use with IBM Cloud Orchestrator using product-provided toolkits and custom content
- Build custom user interfaces for self-service offerings
- Build self-service offerings that include required approvals
- Troubleshoot problems when creating workflows and patterns
- Create IBM Cloud Orchestrator toolkits

Topics

IBM Cloud Orchestrator 2.4

- IBM Cloud Orchestrator V2.4 architecture
- Images and patterns in IBM Cloud
- Orchestrator V2.4
- User interfaces
- Orchestration with Process Center
- Classroom environment

REST API in IBM Cloud Orchestrator

- REST endpoints
- REST API for Workload Deployer
- IBM Business Process Manager REST call
- OpenStack REST call

Working with data objects

- Variables and data mapping
- Toolkits are building blocks
- Information flow in IBM Cloud Orchestrator
- Operation context details

Human service and business process details

- Business processes
- Human services and coaches
- Populating user interface controls

Dynamic coach

- Structure of a coach
- Customizing a coach
- Custom HTML
- Ajax services
- Ajax service calls
- Boundary events
- Coach validation

Networking with OpenStack Neutron

- Neutron components
- Network and subnetwork
- Router definition
- Firewall as a Service
- Load Balancer as a Service
- Basic network troubleshooting

Orchestration with OpenStack Heat

- Heat overview and components
- Advanced Heat orchestration template

Deploying various patterns

- Pattern overview
- Virtual system classic pattern
- Virtual application pattern
- Virtual system pattern
- Virtual system pattern builder
- Instance console
- Virtual system pattern and IBM Business Process Manager
- OpenStack Heat and IBM Business Process Manager
- Troubleshooting

Troubleshooting

- Platform troubleshooting
- Business Process Manager Troubleshooting

Configuring approvals

- Mapping Business Process Manager users and roles
- Using the IBM Cloud Orchestrator toolkit for approvals
- Adding approval using the Service
- Composition wizard
- Inbox assignments
- Multilevel approvals

Configuring notifications

- Using the email notification toolkit

IBM Cloud Orchestrator content creation and publishing

- IBM Cloud Orchestrator software development toolkit (SDK)
- Content guidelines and best practices
- Publishing content
- References