



Oracle DevOps Automation Workshop

Experience DevOps Automation Solutions with Hands-on Labs and Demonstrations

Goal

- Overview of DevOps automation in cloud
- Overview of scripting tools involved
- Examine and execute the script template automate Oracle IaaS and PaaS provisioning
- Examine and execute the script template to automate application configuration and deployment
- Demonstrate new scripting tools provided by Oracle for automatic PaaS services provisioning

To address common DevOps challenges, this workshop uses a typical end-to-end application architecture, steps through the automation requirements, and executes the automation process to provision needed cloud services in Oracle public cloud, configure and deploy the end-to-end application to move the on premise application to public cloud.

The example application used in this workshop is based on a common HHS solution architecture with multiple applications such as WebLogic Application, custom application, integrated with a SOA platform.

At the end of the workshop, attendees will successfully have executed the automation and run the same on premise application end-to-end in Oracle cloud, using Java Cloud Service, compute cloud service, database cloud service and SOA cloud service on Oracle Cloud Infrastructure, with a single command. The attendees will receive the automation template that they can take away to apply and customize for their own DevOps automation in Oracle cloud.

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Agenda

Audience

System administrators, IT developers, IT architects

Prerequisite

Experience with Terraform, Python, JSON

Agenda

- 1. DevOps Automation Overview**
 - Introduction to the scripting tools
 - Automation stages – provisioning, configuration, deployment
- 2. Application Architecture Overview**
 - Oracle Cloud Services Overview
 - Cloud Deployment Architecture
- 3. Automation Hands-on Labs**
 - Cloud Services Provisioning – Terraform Script Part 1
 - Review Configuration Parameters
 - Application Deployment – Terraform Script Part 2
- 4. Demonstrate additional scripting tools from Oracle for PaaS provisioning**