

Introduction to DevOps on Oracle Cloud

Duration: 5 Days

What you will learn

This Introduction to DevOps on Oracle Cloud training helps you understand how Dev and Ops functional teams come together to deliver apps and much more. Work with expert Oracle University instructors to rapidly deploy apps to production environments such as cloud.

Learn How To:

Build test environments

Automate and orchestrate jobs to run tests

Store artifacts and build a repository

Implement a software solution

Take the software solution from the development phase into initial deployment and then into pre-production

Take the solution to production environments and perform ongoing administration

Benefits to You

When you walk away from this training, you will have learned what DevOps really means, what it involves, and how it affects enterprises and their strategies to rapidly roll out software/applications from development to production environments. It will solidify your understanding of methodologies and Oracle best practices for continuous integration, continuous delivery, and rapid deployment. Finally, taking this course empowers you to find solutions to fix your customers' business problems.

Audience

Application Developers

Architect

Database Administrators

Developer

IT Director

Java Developers

Related Training

Required Prerequisites

Experience of developing, testing, or deploying applications in an enterprise

Experience working with shell scripts and administering Linux environments

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Familiarity with application or configuration life cycle operations in IT operations of an enterprise.

Course Objectives

- Test low-level APIs using cURL
- Explain automation and orchestration concepts
- Explain continuous monitoring
- Explain how to manage the modern cloud and empower DevOps
- Explain DevOps concepts
- Explain how to do test-driven development
- Explain continuous integration and continuous delivery concepts
- Use Oracle Cloud Services to develop apps and push continuous builds
- Explain infrastructure and configuration management concepts
- Use Oracle Compute Cloud Service to set up virtualized infrastructure as code
- Deploy Chef on Compute Cloud Service instances
- Explain the role of QA in DevOps

Course Topics

Introduction to DevOps

DevOps Culture in an Organization

Test-Driven Development

- Python
- Java

Developing Apps Using IDEs

- Oracle Developer Cloud Service
- Oracle Enterprise Pack for Eclipse

Managing Projects with Maven

- Oracle Developer Cloud Service

Agile and Project Management

- Oracle Developer Cloud Service

Continuous Integration and Continuous Delivery

Infrastructure Concepts

Oracle Compute Cloud Service/IaaS

Introduction to Configuration Management

Infrastructure as Code

Using Orchestration JSONs to Set Up Infrastructure

Oracle Compute Cloud Service

Deploying Chef on Oracle Compute Cloud Service Instances

Oracle Compute Cloud Service

Introduction to Chef

Working with the Chef Server

Role of QA in DevOps

Testing Low-Level APIs (REST) Using cURL

Automation and Orchestration

Continuous Monitoring

Managing the Modern Cloud and Empowering DevOps