

DevOps (Custom for IBM)

Course Summary

Topics

- AWS Cloud Introduction
 - What is DevOps?
 - Amazon overview
 - Storage
 - Compute instances
 - Security groups
 - IAM
 - Policies
 - VPC
 - EC2 API
 - Python EC2 SDK
 - EC2 AWS Python libraries (boto)
 - Cloud Orchestration: Infrastructure Lifecycle, Provisioning, Updating, Destroying
 - What is Terraform: Automatic Orchestration of Infrastructure, Infrastructure as Code
 - Infrastructure as Code - AWS CloudFormation and Configuration Management
 - Continuous Integration on AWS – Brief Intro to Code Repositories and CI Servers
 - Continuous Delivery on AWS – Rolling Updates, Blue/Green, A/B Testing, Dark Launching
 - AMI Creation vs Bootstrapping
 - Putting it All Together
- Version Control Introduction and Git Basics
 - Version control
 - Basic operations
 - Changes, stages, commits
 - Common branch models
 - Conflict resolution
- Continuous Integration using Jenkins
 - The Build Life Cycle
 - CI and CD
 - Jenkins and Maven Defined
 - Build Lifecycle
 - Installing Jenkins
 - Projects and Jobs
 - Jenkins Usecases
 - Jenkins Architecture
 - Jenkins CLI
 - Include running builds for Python apps and libs through Jenkins, including test coverage

Duration

Five days