

DEVOPS TECHNICAL ESSENTIALS

Length : 2 days
Delivery Method : Instructor-led (Classroom)

Course Outline

Module 1: Devops Big Picture (Theory)

Lessons

- What and why of Devops
- Devops Tools – Overview and Usecase
 1. Source Control Management (SCM Tools)
 2. Continuous Integration
 3. Static code Analysis Tool
 4. Storage Artifacts
 5. Continuous Deployment
 6. Containerization
 7. Configuration Management

Module 2: Devops in Action (Hands on Lab by students)

Lessons

- **SCM** Live demo
 - Bitbucket – Create an account and fork your application code
 - Git clone the Bitbucket code, Use maven to compile and package java source code
 - Deploy .war file manually
- **Continuous Integration** Tool – **(Hands on Lab by students)**
 - Bamboo CI – Deploy Bamboo CI on Ubuntu 14.04 server (each student will deploy his Bamboo CI server)
 - Continuous Integration setup –Bamboo CI and Bitbucket
- **Code Packaging automation** – **(Hands on Lab by students)**
 - Automation Maven test, Compile and Package (.war) using Bamboo CI
- **Static Code Analysis** – **(Hands on Lab by students)**
 - Understand sonarqube (deployed by trainer)
 - Students to Integrate Bamboo CI server with Sonarqube
 - Sonarqube –static code analysis and set quality gates
- **Storage Artifact** – **(Hands on Lab by students)**
 - Understand Nexus (deployed by trainer)
 - Nexus storage artifact integration
 - Store your end software products in Nexus
- **Continuous Deployment** – **(Hands on Lab by students)**
 - Add slave nodes to Jenkins
 - Automate deployment of your .warfile to server
 - Building Pipeline scripts and stages in SDLC

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