DevOps Lesson 00:



Course Goals and Non Goals



Course Goals

- At the end of this program, participants will gain an understanding of:
 - DevOps Ecosystem
 - Automatic Source Code Management using GIT and Continuous Integration using Jenkins

Course Non Goals

- This program does not attempt:
 - To demonstrate Continuous Deployment and Continuous Monitoring tools like puppet, CHEF and Nagios



Pre-requisites



List the Course Pre-requisites

- Text Basic understanding of system concepts
- Familiarity with Command Line Interface(CLI)
- Familiarity with a Text Editor
- Experience with managing systems/applications/infrastructure or with deployments/automation
- IT experience

Intended Audience



This course is suitable for

- System Administrators
- Developers
- IT Managers
- IT Operations team members who want to learn more about DevOps.



Day Wise Schedule



Day 1

- Lesson 1:Introduction to DevOps
- Lesson 2: GitHub

Day 2

- Lesson 2: GitHub
- Lesson 3:Jenkins

Day 3

- Lesson 4: Introduction To Mockito
- Lesson 5:Junit & Mockito Integration with Jenkins



Lesson 1: Introduction to DevOps

- What is DevOps
- Evolution of DevOps
- Agile Methodology
- Why DevOps
- Agile vs DevOps
- DevOps Principles
- DevOps Lifecycle
- DevOps Tools
- Benefits of DevOps
- Continuous Integration and Delivery pipeline
- Use-case walkthrough

Lesson 2: GitHub

- Introduction to Git
- Version control
- Repositories and Branches
- Working Locally with GIT
- Working Remotely with GIT

- Lesson 03:Jenkins
 - Introduction to CI
 - Jenkins Introduction
 - Creating Job in Jenkins
 - Adding plugin in Jenkins
 - Creating Job with Maven & Git

- Lesson 04:Introduction To Mokito
 - Mockito Overview
 - General Mocking Concepts
 - Introduction Of Mockito and Demo
 - Core Mockito Features and API
- Lesson 05:JUnit and Mockito Integration with Jenkins

References



http://www.bogotobogo.com/DevOps/DevOps CI CD Pipeline Sample.php

https://dzone.com/articles/an-example-of-a-continuous-integration-delivery

<u>pi</u>

https://www.edureka.co/blog/devops-

tutorial?utm source=blog&utm medium=left-

menu&utm term=DevOps%20Tutorial%20:%20Introduction%20To%20Dev

<u>ps</u>

http://www.guru99.com/cloud-computing-for-beginners.html

https://www.slideshare.net/Agarwaljay/cloud-computing-simple-ppt-

41561620

Next Step Courses (if applicable)



Containerization using Docker Puppet Continuous Monitoring using Nagios

