Road Map - Learning 5 HOTTEST DevOps Tools in 8 Days + Hands-on Lab 1 Day + Q&A 1 Day
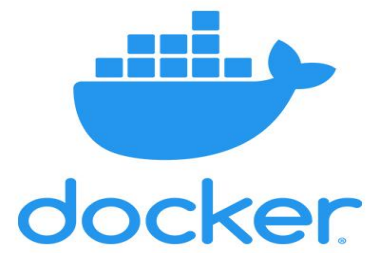
Technologies to be covered

DevOps Introduction

Linux Instance on Cloud

AWS (Amazon) Cloud

CI/CD Pipeline

(Jenkins)   Containerization (Docker)   Version Control
System (GIT)

Hands-On Lab

Question & Answer

Day 1
DevOps Introduction

1. Overview of DevOps
2. 5 W's of DevOps
3. Agile Vs Waterfall
4. DevOps LifeCycle
5. Continuous Development / Integration /Testing / Deployment / Monitoring

Day 2
AWS (Amazon) Cloud

1. An Introduction to Cloud Computing
2. Traditional Data Centers Vs Virtual Machines (VMs)
3. Comparison - On Premises Vs IAAS Vs PAAS Vs SAAS
4. On-Demand Self Service
5. Heterogeneous Access
6. Resource Pooling
7. Service Models – SAAS, PAAS, IAAS
8. Cloud Computing Stack
9. Deployment Models - Private, Community, Public, Hybrid
10. Cloud Computing Types
11. Advantages of Cloud Computing
12. Amazon Web Services Infrastructure Essentials
13. Amazon Free Tier
14. Amazonn Machine Images
15. Elastic Compute Cloud (EC2)

Day 2
Linux Instance on Cloud

1. What is Linux?
2. Linux Shell, Access and Linux File system structure
3. Linux/ Unix Command Basics
4. Top 50 command used in Linux
5. Users & Groups - Managing file permissions and ownership
6. Filter commands/ Simple filter and advance filter commands.
7. Working with Environment Variables
8. Package installation using RPM and YUM
9. Start and Stop services
10. PS, Find and kill the process with id and name
11. Shell scripts

Day 3 &/4
Version Control System (Git)

1. Introduction to Git
2. Version Control using Git
3. Types of Version Control System
4. Git LifeCycle
5. Common Git commands
6. Branches, Rebase, Merge, Clone

Day 5 &/ 6
Containerization (Docker)

1. Introduction to Docker
2. Virtualization Vs Containerization
3. Containerization Tools
4. Understanding Docker LifeCycle
5. Components of Docker Ecosystem
6. Creating Images, building & running Containers

Day 7 &/ 8
CI/CD Pipeline (Jenkins)

1. Introduction to Jenkins
2. Continuous Integration with Jenkins
3. Jenkins Master Slave architecture
4. Jenkins installation with Slaves connection
5. Implementing CI/CD pipeline with integration of Git & Docker

Day 9
Hands-On Lab

1. Lab hands on

Day 10
Question & Answer

1. Q & A session