Testing Tools

DEVOPS TRAINING

Course HighLights:

- ➢ **10+ yrs of experienced real time trainers**
- ➢ **Competitive course content as per current market.**
- ➢ **Real time project End to End will be covered in every course.**
- ➢ Course will be start from basic level to advanced level
- ➢ All the real time tools learn in the part of course
- ➢ **Daily Assignments** and monitoring your work
- ➢ **Weekly Written Tests** will be conducted
- ➢ Real time scenarios and **Interview Questions discussion**
- ➢ **Mock interviews** with feedback and suggestions if any.
- ➢ Sharing all the documents used in Real Time projects.
- ➢ After course completion also we will address your queries on weekly Q&A session.
- ➢ **Recordings Access for lifetime.**

DEVOPS TRAINING

1. **DevOps Introduction**
   - Why DevOps?
   - What is DevOps?
   - Different Software Development Cycles
   - How Agile be incomplete without DevOps
   - History of DevOps
   - DevOps Stakeholders
   - DevOps Market Trends
   - DevOps Tools & Purpose
   - DevOps Pipeline
   - Continuous Integration and Deployment
   - Real-time Project Delivery Architecture

2. **LINUX / UNIX /Ubuntu OS:**
   - UNIX / Linux difference
   - Why Linux is needed in DevOps
   - Linux File system structure
   - Linux/Unix commands
   - About Vi Editor and commands in Vi Editor
   - Changing file permissions and ownership
   - Types of links soft and hard link
   - Filter commands
   - Simple filter and advance filter commands
   - Start and stop services
   - Find and kill the process with id and name
   - Installation of software in Linux ,Ubuntu OS
   - Shell Scripting and Run the Scripts

3. **Cloud computing (DevOps on Cloud AWS / Google Cloud)**
   - Introduction to cloud computing
   - Advantages of Cloud
   - Using AWS, Google Cloud..etc
   - Using Compute Engines in Cloud, Configuration Settings
   - Installation of Software in Cloud VM instances
   - Connecting to VM using different services like Putty..etc
   - EC2 Services in AWS

4. **Git , GitHub**
   - What is version control?
   - Difference between CVC and DVC Systems
   - What is Git
   - Why Git for your organization
   - Install Git in windows and also in Linux / Ubuntu /Unix Commands in Git

- ➤ Working with Remote Repositories (Github)
- ➤ Difference between Forking, Cloning from Repository
- ➤ Working between Local Git and Remote Github (Fetch, Pull, Commit, Push)
- ➤ Git Branches, Working with Multiple Branches

5. Maven Build Tool
- ➤ Install Apache Maven
- ➤ Working with Maven Project in Eclipse
- ➤ Understand Maven Project Folders
- ➤ Understand Maven dependencies and control Maven classpaths
- ➤ Install plugins, manage plugins with a parent POM, and find available plugins
- ➤ Creating Project Builds using Maven
- ➤ Understand Maven Goals and maven Commands

6. Git, Jenkins & Maven Integration Introduction
- ➤ Understanding continuous integration
- ➤ Introduction about Jenkins
- ➤ Jenkins Architecture

7. Installation of Jenkins
- ➤ Installing and configuring Jenkins using WAR and RPM
- ➤ Java installation and configuration
- ➤ Maven Configuration with Jenkins
- ➤ About Jenkins Dashboard.
- ➤ Installing Different Plug ins

8. Jobs
- ➤ Creating Jobs
- ➤ Running the Jobs
- ➤ Setting up the global environments for Jobs
- ➤ Adding and updating Plugins
- ➤ Disabling and deleting jobs
- ➤ Working with Maven Jobs in Jenkins and Goals

9. Build Deployments
- ➤ Understanding Deployment.
- ➤ Tomcat installation and configuration

10. Securing Jenkins
- ➤ Creating users
- ➤ Implementing Different Security options like Matrix

11. **Integrations**
    - Integration of Jenkins with other DevOps tools like Git, Maven, Docker..etc
    - Jenkins Master Slave and Node Slaves
    - Jenkins Delivery Pipe line Development

12. **Continuous Testing with Selenium**
    - Introduction to Selenium
    - Why Selenium?
    - Selenium – Webdriver
    - Creating Test Cases in Selenium WebDriver (Waits)
    - What and why X-Path
    - Handling different controls on Webpage
    - Framework in Selenium
    - Selenium **Integration** with Jenkins

13. **Docker**
    - What is a Docker
    - Use case of Docker
    - Platforms for Docker
    - Dockers vs. Virtualization
    - Docker Architecture
    - Understanding the Docker components
    - Installing Docker on Linux
    - Understanding Installation of Docker on windows
    - Some Docker commands
    - Provisioning

14. **Docker Hub.**
    - Downloading Docker images
    - Uploading images in Docker Registry and AWS ECS
    - Understanding containers
    - Running commands in container
    - Running multiple containers

15. **Custom images**
    - Creating a custom image
    - Running a container from the custom image
    - Publishing the custom image

16. Docker Networking
  - ➢ Accessing containers
  - ➢ Linking containers
  - ➢ Exposing container ports
  - ➢ Container Routing

17. Docker Networking & EcoSystem
  - ➢ Introduction to Docker Ecosystem
  - ➢ Docker Compose
  - ➢ Docker Swarm
  - ➢ Managing Containers
  - ➢ Running Containers
  - ➢ Introduction to Docker Networking
  - ➢ Network Types
  - ➢ Docker Container Networking

18. Puppet
  - ➢ Introduction to Puppet
  - ➢ Puppet Installation
  - ➢ Puppet Configuration
  - ➢ Puppet Master and Agent Setup
  - ➢ Puppet Module
  - ➢ Node Classification
  - ➢ Puppet Environment
  - ➢ Puppet Classes
  - ➢ Automation & Reporting

19. Ansible
  - ➢ What is Ansible?
  - ➢ How Ansible works?
  - ➢ Ansible Architecture?
  - ➢ Ansible terminology and about Playbooks
  - ➢ Installing Ansible on Linux(Redhat family and Debian family(ubuntu))
  - ➢ Ansible client and server configuration
  - ➢ Writing playbooks using YAML
  - ➢ Deploy web applications using Ansible
  - ➢ Host , Static & Dynamic Inventory files
  - ➢ About Ansible Modules and Debugging
  - ➢ Executing Ansible Adhoc Commands

20. Kubernetes
  - ➢ Introduction to Kubernetes
  - ➢ Kubernetes Architecture
  - ➢ About Pods, Services, Namespaces, Replicaset, Jobs

- Spinning up Kubernetes Cluster on Ubuntu VMs / Linux
- Exploring the Cluster
- Understanding YAML
- Creating a Deployment in Kubernetes using YAML
- Creating a Service in Kubernetes
- Installing Kubernetes Dashboard
- Deploying an App using Dashboard
- Using Rolling Updates in Kubernetes
- Containers & Container Orchestration

21. Continuous Monitoring with Nagios
- Introduction to Continuous Monitoring
- Introduction to Nagios
- Installing Nagios on Windows, Linux
- Nagios Plugins (NRPE) and Objects
- Nagios Commands and Noti=ication

22. Daily Assignments
23. Weekly Written Test
24. Mock Interview and Interview Questions
25. Practical Knowledge On Real-Time Environment
26. Drafting & Sending The Real Time Emails
27. Focus On Interview Questions
28. Resume Preparation
29. Forward Resumes To The Companies
30. Placement Assistance until you placed
31. Guidance On Register And Apply Jobs Through Job Portals

FAQ's:

1. **Placements:**
   We will refer your resumes to companies for openings; you have to perform in interview and impress the interviewer with your answers and build the confidence. If you need any help in how to answer or any other knowledge, we will be happy to serve you on it.

   With our level of real time training and followed all assignments given by us, Mock Interviews, Expert level of resume preparation should be very much enough to crack the interview in technical and others is depends on candidate expressive and impressive skills.

2. **Recordings:**
   Life time access will be provided.

3. **Shall get support after course completion:**
   You can send mail to us on your clarification, and will be discussing in Weekly Q&A Session.