

*** EXPERIENCED DevOps ENGINEER ***

-: PRE REQUISITES :-

- (1) Laptop with dual boot – Windows and Ubuntu-18.04.
- (2) Github, Gmail and AWS Trial user accounts.
- (3) Basic vi use in Ubuntu Linux. [create/edit/save/view file]
- (4) Cisco WebEx application working in your laptop.
- (5) Slack will be used for training related communication.

-: COURSE CONTENT :-

1. DevOps – DEvelopment and OPERations

- a. What is it,
- b. Why,
- c. Benefits,
- d. Common devops tools,
- e. Build/Release workflow etc
- f. SDLC concepts

2. Version Control System or SCM – Git/Github

- a. clone, add, commit, push, branch, checkout, merge, pull, fetch, diff, log, status, stash, status, reset, rebase cmds
- b. Product dev – project/training code repository
- c. Product automation repository – test code, automation etc
- d. Add collaborators, Create access key
- e. Add, Commit and Push files
- f. Create branch, move to it, As files, commit, push
- g. Branch merge from CLI and from UI via Pull Requests

3. OS Fundamentals – LINUX Basics – Ubuntu18.04

- a. Introduction OS
- b. Most widely used/asked Linux commands.
- c. Lab Session
- d. Basic shell scripting Lab. (Code push to GIT)

4. Introduction to Cloud Computing – SaaS, PaaS, IaaS – AWS

- a. Cloud computing concepts
- b. Launch VM in AWS EC2 – Elastic Compute Cloud
 - i. Instances, Regions, Security groups, and RSA pem key
 - ii. Access VM using SSH (22) with Public key.
- c. Deploy Jenkins on above VM (Ubuntu18.04)
 - i. Installation steps – dependencies – JRE/JDK etc
 - ii. Deployment of Jenkins on AWS VM
 - iii. Enabling outbound/inbound traffic – http(80)
 - iv. Access Jenkins http://<AWS VM Public IP>:8080 for config

- NOTE:** Interview Questions. Mock Interviews. Placement assistance.