

TECHGENX

Docker + AWS + JENKINS (DEVOPS)

Docker:

- What is Docker?
- Installation Steps
- Windows ,Mac and Linux Installer
- Troubleshooting with Docker
- Docker Terminologies
- Useful Docker commands
- Pulling an Docker image
- Image Name Format
- Creating a container
- Basic Linux commands
- Port Mapping
- Docker Stop Command
- Volume mapping
- Docker Network
- Creating own Docker image
- Passing Environment variable to Docker container
- Pushing an image to Docker Hub
- Docker compose
- Running test inside Docker container

Docker + Maven:

- What is Maven
- Maven CL
- Maven plugins
- Maven Package
- Running test using Jar file
- Creating image
- Creating dockerfile with dependencies
- Building docker image with maven
- Running test by container
- Architecture of Docker compose files
- Docker compose run with healthcheck script
- Docker compose file for multiple test suites
- Zelenium – Docker components.

Jenkins:

- Introduction

- CI/CD
- Installing Jenkins via Docker
- Plugins
- Master vs Slave concept
- Agent connection
- Launch agent without Master
- Adding Docker with Jenkins
- Jenkinsfile
- Git vs GitHub
- Creating Github account
- Jenkins job with Docker
- Creating Jenkins job for Docker image
- Run test suite

AWS

- AWS terminologies
- AWS Spot Instance Advisor
- AWS Create Account
- AWS-Jenkins requirement
- AWS – Create VPC and subnets
- AWS- creating AMI
- AWS- creating users for Jenkins
- AWS- EC2 plugin install
- AWS- Adding credentials in Jenkins
- AWS-Spot fleet configuration in Jenkins
- AWS- Running our test and auto scaling
- AWS- Copy AM to other regions
- AWS- Cleaning up resources