

## DEVOPS WITH AWS Online Training

### 1. DevOps Training in Hyderabad Curriculum

- What is DevOps
- Dev and Ops activities
- Scope of DevOps
- Tools to achieve DevOps process
- Roles and Responsibilities of DevOps engineer

### 2. Overview about

- IAAS
- PAAS
- SAAS

DevOps on cloud computing and virtualization  
Containership tool in DevOps model  
Career on DevOps

### 3. GIT

- Introduction about version control system?
- Difference between Central & Distributed Version control
- Git software download and installation with configuration.
- Git Architecture
- Git change flow with
- About bitbucket &
- Repository creation on GitHub and bitbucket and play on
- Exercise: Performing a local Git workflow
- Exercise: Working with a (local) remote repository
- Git Branching Strategy, Gittags, git diff
- Comparing changes
- Stashing changes on Git
- Resetting changes with git reset
- Deleting changes in the working tree and staging area for tracked files
- Retrieving files from the history
- Revert commits

### 4. ANT

- Introduction about Build process & build
- Installing & configuration about Ant
- Ant concepts and terminologies
- Working with Ant
- Ant Tasks
- Automating your build and testing through Ant tasks
- Using Ant for automated deployment
- Creating Custom Ant tasks

- Merging & Rebasing branches and Solving merge conflicts
- Editing history with the interactive rebase
- Using the Git cherry-pick command
- Define alias
- Migrating from SVN

SR CLOUD TECH

## 5. Maven

- Introduction to Apache Maven
- Installing and Running Apache Maven
- Getting Started With Maven
- Terminology & POM structure
- Creating Archetypes (Standard java project, web project, multi module project)
- Commonly Used Plugins
- Writing Plugins (Maven)
- Repository Management
- Release Management
- Maven integration with eclipse or other IDE's
- Sonarqube integration with
- Nexus &Artifactory integration with
- Deployment on

## 6. SonarQube

- Introduction on Code Analysis & Code coverage & code Review
- Download & installation & configuration about sonarqube
- Quality gates & threshold values
- About code rule
- Customize & creating new code rule
- Integratin sonar with maven & Jenkins.

## 7. SonaTypeNexus & Jfrog Artifactory

- What is Binary repository & why it is required.
- Download & install & configure Nexus &artifactory tools.
- How to configure snapshot & release
- How to create customize
- Nexus &artifactory repositories Integration with maven &

## 8. Linux

- Introduction of Unix
- Installation
- Boot Procedure and kernel parameters
- file systems hierarchy
- Basic commands
- Software management
- User and Group administration
- Managing file systems and partitions
- SELINUX (BASICS)
- Network Configuration and Troubleshooting
- Firewalls
- Webserver

## 9. Shell Script

## 10. JENKINS

- Introduction of UNIX Shell
- Shell input & output
- Variables
- Operators
- Conditional Code
- Loops
- Text processing
- Introduction about CI/CD/CD (Continuous Integration Continuous Deployment / Continuous Delivery)
- History of Jenkins
- Download & installing & configuring Jenkins various methods.
- Setup Security
- Email and Version Control
- Master/slave configurations
- Creating & configuring & run a Jenkins job
- Running job manually and automated with schedule & poll
- All configurations & features under MANAGE JENKINS
- Monitoring External jobs
- Creating build & deploy pipelines
- Jenkins pipeline as a
- Master & slave

## 11. AWS (Amazon Web Services)

- Introduction to Cloud Computing
- AWS Management Console
- AWS Architecture
- Setting up of the AWS Account
- Amazon EC2 and Amazon EBS
- AWS Storage Services: S3
- Amazon Cloud Watch
- ELB
- AutoScaling
- IAM
- RDS
- Dynamo DB
- AWS Cloud Front
- Cloud Formation
- SNS
- VPC
- Route53

## 12. DOCKER

- Introduction about traditional server architecture & Virtual
- Introduction to Docker and its architecture with underlying
- About docker
- Docker download & installation &
- About images, containers and play around on
- Docker machine.
- Docker volumes
- Docker networking
- Docker port binding
- Docker file/build.
- Docker composes
- Docker swarm
- Dockerizing the applications

## 13. KUBERNATES

- Downloading & installing kubernetes
- Creating kubernetes jobs, pods, deployments and services.
- Storage: volumes and persistent storage
- Load balancing & input

## 14. ANSIBLE

- Introduction about configuration management & infrastructure management
- Introduction to ansible
- Downloading & installation & configuration
- About inventory with host &
- About ansible playbooks
- Dynamic inventory on aws& creating new server instance.
- Configuring web-servers
- Application deployment with ansible
- About ansible roles &provisioners.
- About ansible

## 15. ELK

- introduction to ELK
- Installation and Configuration of File beat
- installation and Configuration of Elastic Search
- installation and configuration of kibana
- Analyzing and Troubleshootin

## 16. NAGIOS

- Introduction to Nagios
- Configuring Nagios Server
- Adding Remote Hosts
- Analyzing and Troubleshootin