



## DevOps With AWS Real Time Training by Rushi Sir

Contact Admin 91 - 9010470520

Course Duration:- 2 MONTHS 20 DAYS

### INTRODUCTION TO DEVOPS

- ☐ What is DevOps?
- ☐ History of DevOps
- ☐ What is Dev and Ops
- ☐ DevOps definition
- ☐ DevOps and Software Development Life Cycle
- ☐ Build and release workflow
- ☐ DevOps main objectives

### LINUX

- ☐ All basics of Linux
- ☐ How to create files, dir, and groups
- ☐ How to change permissions of files, dir, and groups How to create users
- ☐ Ssh
- ☐ Winscp
- ☐ Scp
- ☐ Crontab
- ☐ Passwordless authentication
- ☐ Working with services
- ☐ Most usefull commands like cp, mv, tar, yum, rpm, wget, rm, find, etc...

### GIT (SCM)

- ☐ What is GIT?
- ☐ Installing Git for Windows
- ☐ Basic Commands Overview
- ☐ Diff b/w Git and SVN
- ☐ Git stages
- ☐ Creating Branches
- ☐ Git merge and rebase
- ☐ Backing Out Changes
- ☐ Renaming and Moving Files & Deleting Files



- ☒ Git Repository Setup
- ☒ Git push, pull and fetch
- ☒ Git Stash
- ☒ Git Conflicts
- ☒ Git fetch, merge
- ☒ Git Tags

## MAVEN

- ☒ Overview of Maven
- ☒ Diff b/w Maven and Ant
- ☒ How to install Maven in Windows and Linux
- ☒ Maven Phases
- ☒ Maven repositories
- ☒ How to create .Jar, .war and files
- ☒ How to add dependency files
- ☒ Sample Maven Projects
- ☒ How to Deploy Executable files in Application Servers

## TOMCAT

- ☒ What is Tomcat
- ☒ How to install Tomcat in windows
- ☒ How to install Tomcat in Linux
- ☒ How to deploy code in Tomcat
- ☒ Deploying code by using Jenkins

## JENKINS (CI/CD)

- ☒ What is CI/CD
- ☒ Introduction to Jenkins
- ☒ History of Jenkins/Hudson
- ☒ How to install Jenkins in Windows and Linux
- ☒ How to create Jobs
- ☒ Diff types of jobs
- ☒ Working with Github
- ☒ Working with Build tools
- ☒ Build from Github Project



- ☐ Managing Remote Systems with Jenkins
- ☐ Parameterised Builds
- ☐ Securing Jenkins
- ☐ How to install plugins in Jenkins
- ☐ Scheduling Builds
- ☐ Setting up Different Types of Automated Builds
- ☐ How to configure one job to another job
- ☐ Configure Global Security Jenkins Administration
- ☐ How to create maven type job
- ☐ How to create ant type job
- ☐ Jenkins pipeline
- ☐ Jenkins Backup
- ☐ How to deploy code in servers
- ☐ How to create Nodes in diff Servers
- ☐ Build pipeline view
- ☐ Most useful 20 plugins

## ANSIBLE

- ☐ What is Ansible
- ☐ Difference b/w ansible and other configuration management tools
- ☐ What is Ansible & its features
- ☐ How to setup Ansible
- ☐ Understanding Ansible architecture & Execution
- ☐ Ansible documentation
- ☐ Installing packages by using Ansible
- ☐ Ansible adhoc commands
- ☐ Ansible Modules,
- ☐ Writing playbook
- ☐ Ansible playbook for aws
- ☐ Most useful ansible playbooks
- ☐ Ansible vault

## Docker

- ☐ Learning the Basics of Docker
- ☐ Introduction to Docker
- ☐ Containers vs Virtual Machines



- ☐ Docker Architecture
- ☐ Docker Hub
- ☐ Docker Installation
- ☐ Docker basic commands
- ☐ Creating Our First Image
- ☐ Working with Multiple Images
- ☐ Packaging a Customized Container
- ☐ Running Container Commands with Docker
- ☐ Managing and Removing Base Images
- ☐ Pushing to Docker Hub
- ☐ Creating Shared volume groups
- ☐ Create own images
- ☐ Creating own docker files
- ☐ Docker Events
- ☐ Docker Networking
- ☐ Docker file for user
- ☐ Volume management
- ☐ Docker Compose
- ☐ Docker swarm

## Kubernetes:

- ☐ Introduction
- ☐ Containers Overview
- ☐ Container Orchestration
- ☐ Kubernetes Architecture
- ☐ setup kubernetes
- ☐ kubeadm method
- ☐ Kops method
- ☐ What is POD
- ☐ Introduction to YAML
- ☐ Replication Controllers and ReplicaSets
- ☐ Namespaces
- ☐ Deployments
- ☐ Deployments - Update and Rollback
- ☐ Networking in Kubernetes
- ☐ Services - NodePort
- ☐ Services - ClusterIP



- ☒ TERAFORM
- ☒ MYSQL BACKUPS AND RESTORATION
- ☒ NAGIOS
- ☒ SHELL SCRIPT

## AWS:

- ☒ Introduction to AWS
- ☒ AWS Account creation & free tier limitations overview
- ☒ EC2 Instance Launch Wizard
- ☒ EC2 Instance Types
- ☒ Generating custom Public Key and Private keys for EC2 instances
- ☒ volumes and Snapshots
- ☒ Creating customized Amazon Machine Images
- ☒ Elastic Load Balancers & Health Checks
- ☒ Auto Scaling Groups
- ☒ Cloud Watch
- ☒ Creating Billing Alarm and EC2 instance alarms.
- ☒ VPC (Virtual Private Cloud):
- ☒ Networking Basics
- ☒ Creating custom VPCs and custom Subnets
- ☒ Route Tables & IGW
- ☒ VPN Configuration with AWS (OpenVPN)
- ☒ Elastic IP
- ☒ Simple Notification Service
- ☒ Databases RDS
- ☒ Cost Optimization
- ☒ AWS Backup service
- ☒ AMI





## **FINAL CLASSES**

- ☒ 2 Live Projects End to End Setup
- ☒ Roles and Responsibilities of a DevOps Engineer
- ☒ Roles and Responsibilities of a AWS Engineer
- ☒ Daily Activities
- ☒ Issues faced in Projects
- ☒ Resumes
- ☒ Naukari Tips
- ☒ Interview Preparation
- ☒ Most asked Interview questions

## **WEBSITES**

**rushiinfotech.in**

**devopsbyrushi@gmail.com**



# Rushi Infotech

---

