

# DevOps + Aws Training

[www.devopsbyrushi.com](http://www.devopsbyrushi.com)

Contact: +91-7013882648,

email: devopsbyrushi@gmail.com

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## 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
- ★ Ssh
- ★ Scp
- ★ Winscp
- ★ Scp
- ★ Crontab
- ★ Passwordless authentication
- ★ Working with services
- ★ Most use full 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
- ★ Git cherry pick
- ★ How to use Github

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## MAVEN

- ★ Over view 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

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- ★ 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 Link
- ★ 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
- ★ Name spaces
- ★ Deployments
- ★ Deployments - Update and Rollback
- ★ Networking in Kubernetes
- ★ Services - NodePort
- ★ Services - ClusterIP

- TERAFORM
- MYSQL BACKUPS AND RESTORATION
- NAGIOS

- ★ 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

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- ★ Security groups
- ★ 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.
- ★ Elastic File System
- ★ 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
- ★ Simple Email Service
- ★ Databases:
- ★ Launching a RDS Instances (MySQL, MSSQL & Aurora)
- ★ DynamoDB
- ★ Identity Access Management:
- ★ Root Account Vs IAM user
- ★ IAM Password Policies
- ★ Creating Customer Managed Policies.
- ★ Groups
- ★ Role
- ★ AWS Backup service

- ★ DevOps Realtime issues
- ★ TELEPHONIC RECORDINGS
- ★ RESUMES
- ★ ROLES AND RESPONSIBILITIES OF A DEVOPS ENGINEER

## 2 REAL TIME PROJECTS

**Trainer:**

Rushikesh

Bangalore

7013882648