

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

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
- Git Tags
- Git cherry pick
- How to use Github and Bitbucket

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 .ear 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
Authentication and Authorization
How to create Nodes in diff Servers
Build pipeline view
Most useful 20 plugins
Sonarqube
What is Sonarqube
How to Install Sonarqube
Analyzing with Sonarqube scanner for Maven
Integrate Sonaqube with Maven
Integrate Sonaqube with Jenkins

CHEF and ANSIBLE

Workflow of Chef
How to install Chef in Linux and Windows
What is Work-station, Chef-Server, Nodes
Servers and Nodes concept
Chef Configuration Concepts
Workstation Setup
Creating Cookbooks and uploading into server
How to use Ruby in Chef
About Bootstrap
Package/service actions
Installing Multiple packages at one time
How to manage Chef-Servers
Create roles
Add Roles to organization
How to Add Run list to Node
Check node Details
How to create Data bags
Add Database to organization
Create a server and add to organization
Check node details using knife

Create organization
Environments
Add yourself and node to organization
Adding nodes to Chef-Server
Most useful cookbooks
What is Puppet
What is diff b/w Puppet and chef?
What is Ansible
What is Ansible & its features
How to setup Ansible
Understanding Ansible architecture & Execution
Ansible documentation
Installing packages by using Ansible
Writing playbook

AWS

Introduction of cloud
Benefits of AWS
EC2, EBS, VPC, ENI, SNS, ELB
Auto scaling Group
IAM
AMI
Snapshots
Elastic ip
S3
Most useful topics

Virtulization installing centos/ RHEL on VMware installing centos/
RHEL on VirtualBox **Docker**

Learning the Basics of Docker
Introduction to Docker
Containers vs Virtual Machines
Docker Architecture
Docker Hub
Docker Installation
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
Docker Networking
Docker file for user
Volume management
Docker Link
Docker Compose

LINUX and Shell Scripting

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

Scp

Winscp

Scp

Cron

Shell scripting

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