

DevOps Course Content

What is DevOps

Dev and Ops activities

Scope of DevOps

Tools to achieve DevOps process

Roles and Responsibilities of DevOps engineer

Overview about

→ IAAS

→ PAAS

→ SAAS

DevOps on cloud computing and virtualization

Containership tool in DevOps model

Career on DevOps

GIT

What is version control

What is git and its history

Install git and configuration settings

Setting up repository

Working with local repository

Working with remote repository like github/gitlab

Branching, merging, rebasing with git

Revert the git changes/commits

Configurations with eclipse and gerrit

Maven

Introduction to maven fundamentals

Maven structure

Maven dependencies

Maven repositories

Maven plugins

Pom.xml

Goals

Local/remote repo structure

Compiler plugins

Linux

Introduction

The directory structure

Working on files or folders

Working on the command line

File system security

Linux networking commands

Linux Scripting overview

Student

Introduction about shell script

Variables

If conditions.... for loops....

Input, output statements

Control flow

Functions

Play with strings

JENKINS

Introduction Jenkins

Installation and configuration

Securing Jenkins

Managing Jenkins credentials

Plugin management

Jenkins backup – restore settings

Different types of jobs configuration

Schedule jobs

Parameterized builds

Managing Master & slave configuration

WEBLOGIC

- Install & configure a weblogic server
- Weblogic console administration
- Configuring domain
- Configuring managed servers
- Configuring node managers
- Viewing and managing logs
- Auto deployment and manual deployment concepts
- Creating & staging deployment plan
- Cluster architecture and configuration
- Security concepts and configurations
- Performance tuning

SONAR QUBE

- Installation & configuration
- Display code analysis results in sonar
- Customize dashboard
- Sonar widgets
- Plugin configurations
- Quality gates & Profiles

NEXUS REPOSITORY

- What is Nexus & what is repository management
- Installation & configuration of NEXUS with user settings
- Creating repository with p2 nexus plugin
- Managing central repository

AWS

- Introduction to AWS & cloud computing
- Creating AWS account
- Navigate AWS manage console
- Amaon EC2 service
- Create and play on S3 service

Working on EBS volumes
Working on ELB
Creating or accessing Amazon VPC
Getting started with RDS
Getting started with AMI with roles
Creating cloud formation stack
Configuring **cloud watch** with services

CHEF

Introduction about chef
How to create & configure chef server, nodes, work stations.
Get starting with recipes, resources
Copying config files into nodes
Creating and configuring environments
Working with roles
Working on Knife plugins

DOCKER

Introduction to Docker
Container Operations
Images Operations
Docker Compose

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