



DevOps

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
- ◆ Amazon 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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