**INTRODUCTION TO DEVOPS (2Hrs At Best)**

**===================================**

✓ What is DevOps?

✓ History of DevOps

✓ Why DevOps?

✓ What is Dev and Ops

✓ DevOps definition

✓ What is Build & Release?

✓ Software Development Life Cycle (SDLC)

✓ Pre-Requisites to get into DevOps

✓ Future of DevOps

✓ Tools in DevOps

✓ DevOps main objectives

**Virtualization (2Hrs At Best)**

**======================**

✓ Introduction to virtual machines

✓ Creating multiple VM’s

✓ Gest and host operating systems

✓ Hypervisors

✓ VM Ware

✓ Virtual Box

✓ Diff b/w containers and virtual machines

**UNIX/LINUX (OS) (10Hrs At Best)**

**==========================**

✓ What is Operating System

✓ Types of Operating systems

✓ Introduction to Linux/Unix

✓ Why Linux

✓ Overview about client and server operating systems

✓ Installation Red Hat Enterprise Linux

✓ Filesystem Hierarchy

✓ Terminal Overview

✓ Basic Commands

✓ VIM Editor

✓ Files (hard & soft)

✓ File Permissions

✓ Package/Soft Management

✓ Job Automation(crontab)

✓ User and Group Administration

**GIT (SCM/VCS) (7Hrs At Best)**

**========================**

✓ What is SCM/VCS

✓ Introduction to GIT??

✓ Installing Git in Windows?

✓ Installing Git in Linux?

✓ Diff b/w Git and other tools

✓ What is Distributed version control system

✓ Architecture of git

✓ Stages in git

✓ Frequently used Terminologies

✓ Git global configurations

✓ Repo's

✓ log Management

✓ Git ignore concept

✓ Branching

✓ Merging vs rebase

✓ Merge Conflicts

✓ cherry-pick

✓ snapshort

✓ stash

✓ Git Diff

✓ Undo’s from working, staging, and committing areas

✓ HEAD

✓ Tags

✓ rewritting commit messages

**GITHUB (ORS) (2Hrs At Best)**

**=======================**

1. What is GitHub

2. Overview of GitHub

3. GitHub account creation

4. Difference between git & GitHub

5. Difference with other tools

6. create repo in local machine and push to GitHub

7. Clone existing repos from GitHub

8. Managing tags remotely

9. fetch and pull

10. Workflow

11. Forking Repos

12. pull request

13. Deleting and renaming GitHub Repos

**ANT/MAVEN (Build Tool) (5Hrs At Best)**

**================================**

✓ Over view of Maven

✓ Diff b/w Maven and Ant

✓ Diff b/w Maven and Other build tools

✓ How to install Maven in Windows

✓ How to install Maven in Linux

✓ Maven Architecture

✓ Maven Phases/Goals

✓ Default Life Cycle

✓ Standard Directory Layout

✓ GAV

✓ Maven local and remote repositories

✓ Packages and their types

✓ Sample Maven Project

✓ One by one goals executions

✓ Build in and custom plugins

✓ POM File

✓ Maven SNAPSHORT

✓ Maven profiles

✓ Maven dependency

✓ How to Deploy Executable files in Application Servers

**JENKINS (CI/CD) (8Hrs At Best)**

**=========================**

✓ 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

✓ Integrating with GitHub

✓ Integrating with Build tools

✓ Build from GitHub Project

✓ Managing Remote Systems with Jenkins

✓ Parameterized 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 (Code Quality Testing) (1Hr At Best)**

**=========================================**

✓ What is SonarQube

✓ How to Install SonarQube

✓ Analyzing with SonarQube scanner for Maven

✓ Integrate SonarQube with Maven

✓ Integrate SonarQube with Jenkins

✓ Generating final report in sonar dashboard

**TOMCAT (Application Servers) (2Hr At Best)**

**====================================**

✓ Introduction to Apache Tomcat server

✓ How to install Tomcat in windows

✓ How to install Tomcat in Linux

✓ Manual Deployment

✓ Continuous Deployment using Jenkins jobs

✓ Deploying sample web application (sample. War)

✓ Setup

✓ Tomcat Integration With Jenkins

**JFROG/NEXUS (Artifactory Storage) (3Hr At Best)**

**=======================================**

✓ Why Only Jfrog

✓ Jfrog Artifactory?

✓ What is Artifact

✓ Source vs binary

✓ what is artifact Repository?

✓ why artifact Repository?

✓ Type of packages it supports:

✓ How to setup Artifactory server on AWS

✓ Artifact Deployment from maven to Jfrog

✓ Artifactory Integration with jenkins

**ANSIBLE (Configuration Management) (7Hrs At Best)**

**===========================================**

✓ Introduction to CM

✓ How to setup Ansible

✓ Understanding Ansible architecture & Execution

✓ Ansible documentation

✓ Installing packages by using Ansible

✓ Writing playbook

✓ Workflow of Chef ✓ Workflow of Ansible

✓ What is diff b/w Ansible and Chef?

✓ How to install Ansible 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 Playbooks

✓ What is Ansible & its feature

**Docker (7 Hrs At Best)**

**===================**

✓ 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 Comp

**Kubernetes (7 Hrs at Best)**

**======================**

✓ Introduction

✓ Why and what Kubernetes ✓ Installation

✓ Kubernetes Objects

✓ Kubernetes Architecture

✓ Pods

✓ Service

✓ Volume

✓ Namespace

✓ Replica Set

✓ Deployment

✓ Stateful Set

✓ Daemon set

✓ Job

✓ Create a Cluster using Kubeadm ,Minikube

✓ Using kubectl to Create a Deployment

✓ Using a Service to Expose Your App

✓ Scale Your App

✓ KUBEADM ON AWS

✓ Using kubeadm to Create a Cluster

✓ Pod deletes

**AWS (Cloud)**

**==========**

✓ Traditional Infrastructure Scaling

✓ Cloud Computing

✓ Cloud Computing Providers(Vendors)

✓ Cloud Service Models

✓ Introduction to AWS

✓ Why AWS

✓ AWS Global infra

✓ Free Tier account creation

✓ Putty

✓ MobaExterm

✓ Multi-factor authentication (MFA)

✓ EC2 ✓ EBS

✓ VPC

✓ ELB

✓ Auto scaling Group

✓ IAM

✓ AMI

✓ Snapshots

✓ Elastic Ip

✓ S3

**Providing’s**

**=========**

✓ Materials for every tool

✓ Job Support

✓ Interview Question

✓ Real-Time Scenarios

✓ End to End Business -flow

✓ Real-Time Projects

**AWS DevOps Training Overview**

Master the AWS DevOps skills to advance your career by enrolling in the best AWS DevOps Training in Hyderabad offered by HKR Trainings. We have designed this program for individuals seeking knowledge of AWS with DevOps methodologies. This course covers the knowledge and skills to enhance the updating cloud ecosystem. Further, get trained by industry experts with AWS DevOps platform expertise and hands-on learning. So, start your career path to advance your profession with the AWS DevOps Course in Hyderabad.

**AWS DevOps Training in Hyderabad Prerequisites**

To apply for the AWS DevOps Training in Hyderabad, you need to either:

* Basic skills in Linux/Unix systems.
* Should have good knowledge of scripting languages (Bash, Python, JavaScript).
* Initial skills in AWS services and cloud computing principles, including experience with VCS (Git), can be an added benefit.

**AWS DevOps Training in Hyderabad Course Content**

The experts at HKR traininings delivered the top notch AWS devops training along with decent course structure that helps every individual to gain the concepts very easily. Now let's explore each and every module in depth.