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AWS LINUX & DEV-OPS
COURSE CONTENTS

- Introduction of IT Infrastructure
- Overview of Cloud technology
- Different Cloud Models
- Types of Cloud technology
- Basics of Cloud Terminology
- Overview of AWS Cloud
- AWS Global Infrastructure
- AWS IAM Service
- AWS Storage
- S3 (Simple Storage Service)
- VPC (Virtual private Cloud)
- EC2 (Elastic Compute Cloud)
- RDS (Relational Database Service)
- EFS (Elastic File Storage)
- EBS (Elastic Block Storage)
- Cloud Watch , Alarms
- Elastic Beanstalk
- SQS,SNS.
- AWS Lambda
- KMS (Key Management Service)
- AWS Code Commit , Code Build ,
- Code Deploy , Code Pipeline
- AWS ECS , EKS.
- What is DevOps
- SDLC(Software Development Lifecycle)
- What is Agile and Scrum
- Shell Scripting
- DevOps Life Cycle
- Linux
- GIT (Source Code Management)
- MAVEN (Build Tool)
- Continuous Integration Tool (Jenkins)
- GIT (Source Code Management)
- MAVEN (Build Tool)
- Continuous Integration Tool (Jenkins)
- Sona Type Nexus (Artifactory Repo)
- Configuration Management (ANSIBLE)
- DOCKER (Containerization Tool)
- KUBERNETES
- Monitoring Tools
- INFRASTRUCTURE AS CODE (IAC) TERRAFORM

AWS (AMAZON WEB SERVICES)

Introduction of IT Infrastructure
- What Is Infrastructure
- What Is On-Premise
- Disadvantages of On-premise

Overview of Cloud technology
- What Is Cloud Technology
- On-Premise Vs Cloud Infrastructure.
- Advantages of Cloud over On-Premise.
- Cloud History

Different Cloud Models
- Deployment Model
- Service Model

Types of Cloud technology
- What Is Public,Private,Hybrid Cloud
- Public Vs Private Vs Hybrid.
- Advantages and Disadvantages of public, private, hybrid cloud
- What is SAAS,PAAS,IAAS
- Advantages and Disadvantages of SAAS,PAAS IAAS

Basics of Cloud Terminology
- What Are Services.
- What Are Resources
- Relation Between Services and Resources.
- What are Cloud vendors.

Overview of AWS Cloud
- Introduction Of AWS
- Basics Of AWS.
- AWS Architecture.
- AWS Services and Resources
- AWS account creation,AWS Management Console.
- Overview of Management Console.
- AWS Support plan.
- AWS vs Azure vs GCP

AWS Global Infrastructure
- AWS Global Network
- Edge Locations
- Region, Availability zones, Data Centers.

AWS IAM Service
- Introduction To IAM
- Overview Of IAM Service
- Introduction to Authentication and Authorization
- Authentication vs Authorization.
- what is IAM
- IAM vs On-premise Organization
- IAM users , Groups , Roles , Identity
- Lab on Authentication and Authorization
- Lab on users , Groups , Roles , Identity
- IAM Policies , Permissions
- IAM Custom Policy , AWS Managed Policy

AWS Storage
- Storage Types
- Cloud Storage (Direct Attached , File Storage , Block Storage)
- Storage Services

S3 (Simple Storage Service)
- Introduction To S3
- Overview Of S3 Service
- Object Storage
- MFA , Multipart Upload
- versioning
- Cross Region Replication
- Lifecycle , Storage Classes
- Requester pays
- S3 transfer Acceleration
- Server Access Logging
- Static Web hosting on S3

VPC (Virtual private Cloud)
- Introduction Of VPC
- VPC Components.
- What is Subnet
- Types of Subnet .
- IGW , NAT
- Creating 1 Tier Architecture.

EC2 (Elastic Compute Cloud)
- Introduction To EC2
- What is Server
- What is Virtualization
- Features of EC2
- What is hypervisor , Types of Hypervisor
- AMI (amazon machine image)
- EIP (Elastic IP address)
- Security Group
- EC2 Pricing Option
- ELB (Elastic Load Balancing)
- EC2 - ASG (Auto-Scaling Group)
- Elastic Flow Logs

RDS (Relational Database Service)
- Introduction Of Data-Base
- Introduction Of RDS.
- Creating DB instances.
- Installing DB instances on private Cloud.
- Backup , Snapshot.
- Data-Base Operation (Create , Delete , Update , Insert ...) on Red-hat

EFS (Elastic File Storage)
EBS (Elastic Block Storage)
Cloud Watch , Alarms
Elastic Beanstalk
SQS,SNS.
AWS Lambda
KMS (Key Management Service)
AWS Code Commit , Code Build , Code Deploy , Code Pipeline
AWS ECS , EKS.

DEV-OPS & LINUX

What is DevOps
- Introduction
- Stakeholders Of DevOps
- What is SDLC
- Phases of SDLC
- Role Of Dev in SDLC
- Role of Ops in SDLC

SDLC(Software Development Lifecycle)
- What is SDLC?
- SDLC Methodologies
- Waterfall Model
- Advantages of Waterfall
- Dis-Advantages of Waterfall

What is Agile and Scrum
- Agile Development Process
- Agile Manifesto
- Agile Scrum Work Flow
- Agile Analysis Estimation Techniques
- Types of Roles and Responsibilities
- Problem That DevOps Solves

Shell Scripting
- Shell History And Introduction
- Types Of Shells
- Shebang line in shell
- Command line arguments
- Variables
- Types of Operators
- Loops
- Case statement
- Functions

DevOps Life Cycle
- Introduction
- Tools
- DevOps Technology Categories
- Collaboration
- Planning
- Configuration Management
- Source Control
- Dev Environments
- Continuous Integration
- Continuous Testing
- Continuous Deployment

Linux
- Linux Overview
- What is Operating System
- What is Unix, Linux
- Linux vs Windows
- Linux flavors
- Linux Architecture
- Linux commands
- Reading files
- Redirection operators
- User management
- Group management
- File system management
- Editors

GIT (Source Code Management)
- Introduction
- What is A Version Control System (VCS)? Distributed Vs Non-Distributed VCS
- What is Git and where did it come from?'
- Alternatives to Git
- Git Hub Account Setup
- Obtaining Git Installing Git
- Key Terminology
- Staging Vs Un-Staging
- Adding Files to Staging Area
- Removing Files from Staging Area
- Commit to Local Repository
- Repository Cloning
- Stashes & Stash Apply
- Branching in Git
- Why We need Branches
- Cloning & Switching Branches
- Fetching Changes (git fetch) Rebasing (git rebase)
- Git Pull
- Git Conflicts
- Pull Request
- Merging & Re Basing
- Deleting a Branch

MAVEN (Build Tool)
- What is Build Tool
- Automated Build Process
- Maven Introduction & Objectives
- Maven Installation
- Maven Terminology
- Maven Archetypes
- Maven Project Creation
- Maven Dependencies
- Maven Repositories
  1. Local Repo
  2. Central Repo
  3. Remote Repo
- Maven Goals

Continuous Integration Tool (Jenkins)
- Introduction
- How To Achieve Continuous Integration With Jenkins
- JENKINS Server Setup
- Jenkins Jobs
- How to integrate Jenkins with Maven
- Jenkins dashboard
- Jenkins plugins – how to download and use
- Setup and Running Jenkins Jobs
- Configure Dashboard Configure System Environment Global Properties.

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- Setup and Running Jenkins Jobs
- Configure Dashboard Configure System Environment Global Properties.
- Create And Configure A Job Run A Job Manually Triggering A Build Scheduled Build Job Manual Build Job
- Polling SCM
- Post-Build Actions Archiving Build Results Notifications
- Jenkins Plugins
- Jenkins Master Slave Architecture
- Jenkins Pipeline Introduction
- Multi Stage Pipeline
- Jenkins with Maven & Git Integration
- Jenkins with Sonar Integration
- Jenkins with Nexus Integration
- Jenkins with Docker Integration
- Jenkins with Kubernetes Integration

Sona Type Nexus (Artifactory Repo)
- Introduction
- What is Artifact Repo
- Nexus Introduction
- Nexus Setup
- Snap Short Repository
- Release Repository
- Shared Libs
- Maven with Nexus Repo Integration
- Uploading Build Artifacts

Configuration Management (ANSIBLE)
- What is Configuration Management
- What is Ansible
- Introduction
- Installing Ansible
- Testing with First Ansible Commands
- Introduction to Play Books
- YML File
- Writing Play Books
- Play Books Execution
- Tags
- Handlers
- Introduction to Roles
- Role Basics
- Creating Role
- Ansible Galaxy
- Ansible Tower

DOCKER (Containerization Tool)
- Introduction
- What is Docker
- Life without Docker
- Life with Docker
- Installing Docker on Linux
- What is container
- Docker Run Command
- Working with images
- Container Life cycle
- Docker File
- Docker Network
- Docker Volumes
- Docker Compose
- Docker Swarm

KUBERNETES
- What is Kubernetes
- Docker Swarm Vs Kubernetes
- Kubernetes Architecture
- Control Plane
- Worker Nodes
- Namespaces
- Pods
- Pod Life cycle
- Services
  1. Cluster IP
  2. Node Port
  3. Load Balancer

- Replication Controller
- Replication Set
- Daemon Set
- Stateful Set
- Deployment
  1. Recreate
  2. Rolling Update
  3. Blue Green Deployment
- Config Map
- Secrets
- Ingress Controller
- HELM Charts

Monitoring Tools
- Grafana
- Prometheus
- ELK Stack

INFRASTRUCTURE AS CODE (IAC) TERRAFORM
- Introduction To Terraform
- Terraform Vs Ansible
- Terraform Installation
- Terraform Architecture
- Terraform Scripts
- Infrastructure Creation
- Credentials Management

Project
- 6 Different CICD
- 1-Tier Architecture
- 3-Tier Architecture
- MySql with Docker
- Spring Boot App with Docker
- Deploying application in Kubernetes
- Deploying application on tomcat server
- Deploying application in Docker Environment
- Create and connect to a MySQL Data-base with Amazon RDS

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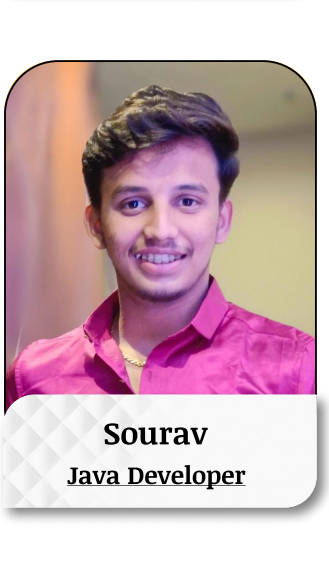
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