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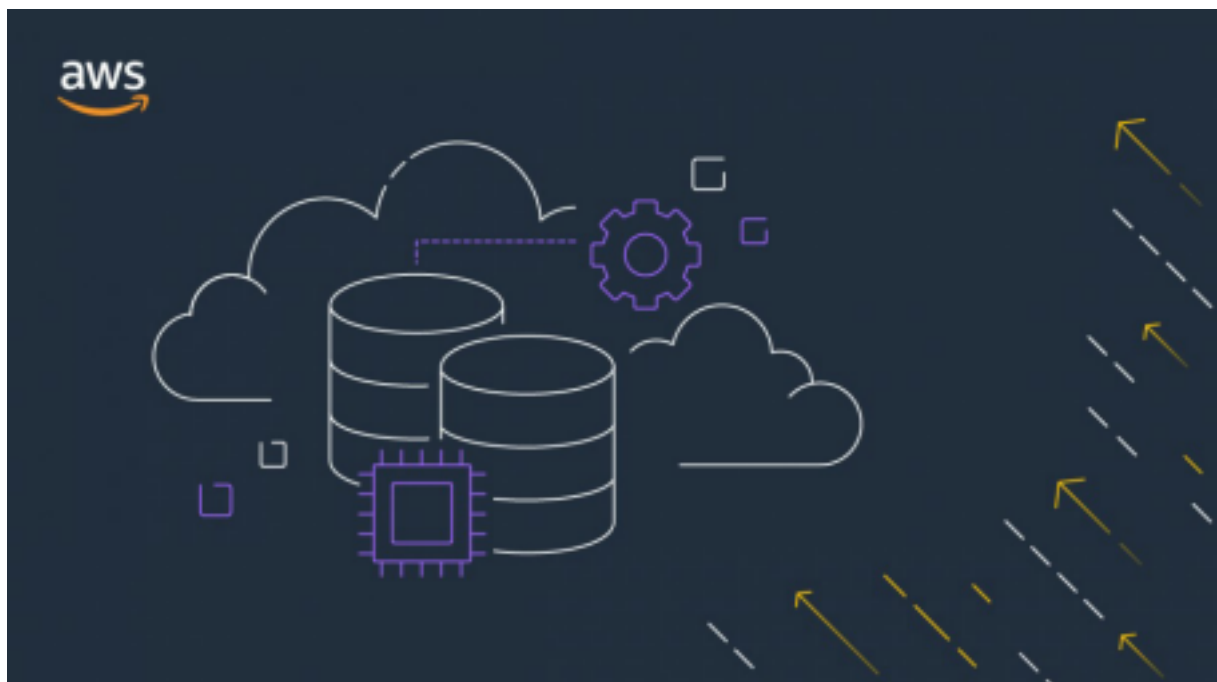

AWS And DevOps

Course Duration: 45 days (70 Hours) More Details Please Contact
Manikanta Nair: 831-088-2795
Course: AWS & DevOps Gaurav Kamath: 974-329-5272

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ee

AWS - amazon web services

Introduction:

- Introduction to cloud Computing and AWS
- Advantages of Cloud Computing
- SaaS, IaaS & PaaS
- Why we should care about AWS
- computer networks , Infrastructure of company
- IP addresses.

Networking:

- Creating a VPC(virtual Private Cloud)
- Creating Private & Public Subnets
- Cloudfront
- Route53
- Securing VPC
- VPC peering
- Transit Gateway
- Updating and working with domain names

EC2 (Elastic Compute Cloud):

- Explanation about EC2
- Creating Internet Gateways
- Creating security groups.
- Creating and assigning Elastic IPS

Identity Access Management:

- Introduction to IAM
- Configuring IAM via AWS Management Console
- Multi Factor Authentication
- AWS Security Token Service (STS)
- Configuring Routing & Route Tables

ELB(Elastic Load Balancing):

- Characteristics of ELB
- Configuring ELB via AWS management Console
- Auto Scaling Features
- How Auto Scaling works
- Configuring Auto Scaling

Logging & Monitoring Tools:

- CloudWatch
- Cloudtrail
- Trusted Advisor
- Systems manager

S3(Simple Storage Service):
- Different storage types
- About Buckets and storing data
- Glaciers
- EFS
- Storage Gateway

Databases on AWS:
- Introduction to Databases
- Amazon Relational Database Service (RDS)
- Create an RDS Database Instance
- Amazon RDS Read Replicas
- Amazon RDS Multi AZ Deployments

Serverless Architectures:
- Cloud front
- Lambda

==We will assign/help with the required real time projects & assignments which includes all above Topics.==

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DevOps

Devops Basics:
- DevOps Culture End to End DevOps What, Why DevOps ?
- Continuous Integration

- Continuous Delivery
- Continuous Deployment
- Cloud Importance Principles of DevOps

Devops Tools:

GIT

- Version controllers basics
- Why Version controllers
- Installation & Configuration
- Cloning repositories
- Dealing with branches

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- Git commands
- Git stash
- Complete understanding of Github and Gitlab

Maven

- Introduction to build tools
- Importance of build tools
- Installation
- Working with build commands
- Build lifecycles
- Understanding artifacts
- Usage in CICD process

Jenkins

- Jenkins installation
- Jenkins setup
- Creating users
- Managing permissions
- Creating Jobs
- Git integration
- Configuring Master Slave
- Emails server configuration
- Email notifications
- Automatic builds
- Creating Pipelines and Jenkins files

Ansible

- Why Infra as Code
- Provisioning infrastructure with Code
- Ansible Introduction
- Installation Control Machine
- Configuration file
- YAML

- Command line
- Inventory
- Playbooks

Docker

- Containers vs VMs
- Docker Introduction
- Docker Architecture
- Installing Docker
- Docker registry
- Docker commands
- Docker Compose

- Docker Containers
- Docker Images
- Networking
- Docker Services
- Docker Swarm

Kubernetes

- Kubernetes Introduction
- Microservice with Kubernetes
- Installing Kubernetes
- Pods
- Services
- YAML syntax
- Create Kubernetes Cluster
- Minikube Kubectl Commands
- Deploying Containerised apps to Kubernetes Cluster

Monitoring using Prometheus and Grafana

- Introduction to Prometheus and Grafana
- Prometheus and Grafana Setup
- Monitoring using Prometheus
- Dashboard Visualization using Grafana
- Creating a Dashboard to monitor the Pipeline

Provisioning using Terraform

- Introduction to Terraform
- Terraform vs Ansible
- Terraform Architecture
- Terraform Configuration
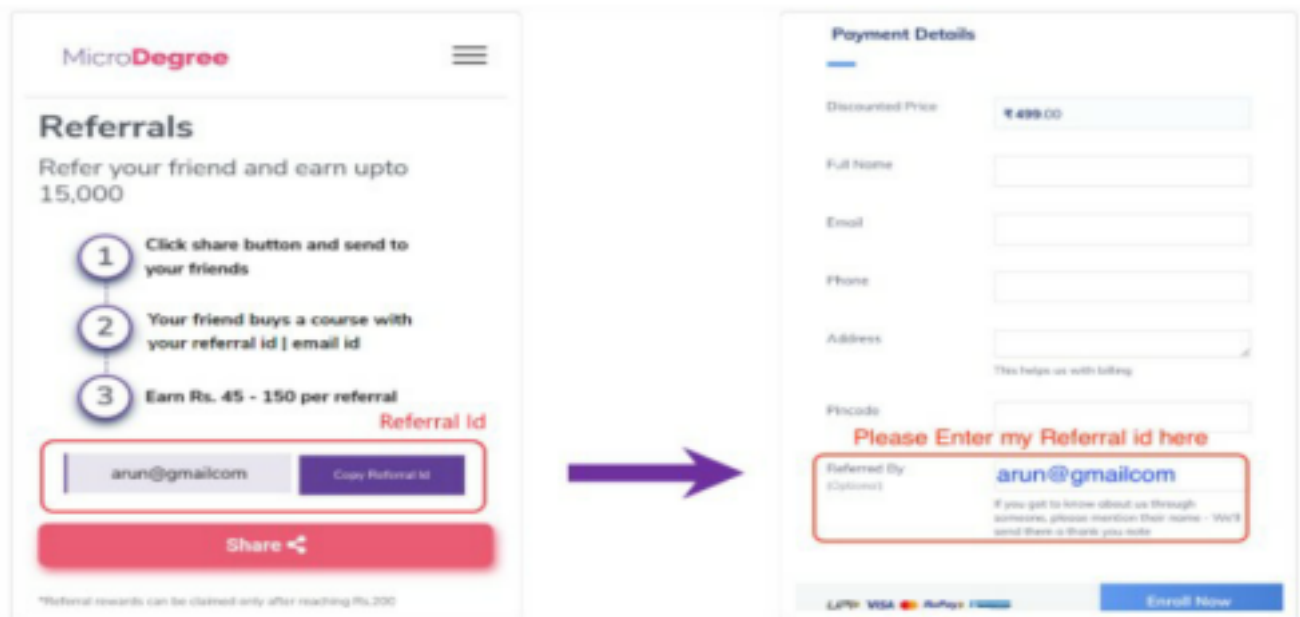- Terraform Common Commands

Artifact Repository - Nexus

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