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| **Topics** |
| **How to Create AWS Account** |
| **How to create virtual server in AWS Cloud** |
| **Ways to connect EC2 instance (virtual server)** |
| **Linux-Introduction** |
| **Linux-architecture** |
| **Linux-OS-Market** |
| **Linux-distributions** |
| **Linux-commands Practice** |
| **Introduction to Cloud-Computing** |
| **IP-Addresses** |
| **AWS-EC2** |
| **AWS-VPC Components** |
| **Create custom VPC and attach to launch EC2 instance** |
| **Create VPC peering connection between two VPC's in the same region** |
| **How to setup EC2 instance uisng natgate way** |
| **Security groups & NACL (Network Access Control List)** |
| **AWS-CloudFormation** |
| **AWS-IAM** |
| **AWS-S3** |
| **AWS- Load Balancing** |
| **AWS-AutoScaling** |
| **AWS-EBS (Elastic Block Storage)** |
| **AWS-CloudWatch** |
| **AWS-ECS** |
| **AWS-EKS** |
| **AWS-ECR** |
| **AWS-Elastic Bean Stalk (EBS)** |
| **AWS-LAMBDA** |
| **AWS-RDS** |

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| **Topics** |
| **Introduction to SDLC** |
| **Introduction to VCS** |
| **GIT-Introduction** |
| **GIT Software Installation** |
| **GIT-Commands** |
| **GIT- github, gitlab (GUI)** |
| **MAVEN-Introduction** |
| **MAVEN-Installation** |
| **MAVEN-Commands, Life-Cycle** |
| **MAVEN-Practice On manual Build Process** |
| **CI-Introduction** |
| **Types Of CI Tools** |
| **JENKINS-Introduction** |
| **JENKINS-Installation** |
| **JENKINS-Freestyle jobs** |
| **JENKINS-Master-slave-setup** |
| **JENKINS-Pipelines** |
| **DOCKER-Introduction** |
| **DOCKER-Installation** |
| **DOCKER-commands** |
| **How to push the docker images into docker hub** |
| **DOCKER-Files** |
| **DOCKER-Compose** |
| **DOCKER-Networks** |
| **Hands on Practice on Network task** |
| **DOCKER-Swarm Introduction** |
| **DOCKER-Swarm Installation** |
| **Hands on Practice on Docker swarm** |
| **Kubernetes Introduction** |
| **Kubernetes architecture comaponents** |
| **Kubernetes objects** |
| **Install kubernetes using minikube and kubeadm** |
| **kubectl commands** |
| **Deploy the Nginx application using yaml files** |
| **Terraform introduction** |
| **Terraform architecture** |
| **Terraform lifecycle** |
| **Terraform Installation** |
| **Creation of EC2 instance using terraform** |
| **Creation of VPC components using terraform** |
| **Creation S3 bukcets using terraform** |
| **Ansible Introduction** |
| **ansible architecture** |
| **Ansible master-slave connection using SSH** |
| **Ansible playbooks, roles, inventories** |
| **deploy the tree packages using ansible playbook** |
| **Install git , maven, jenkins uisng ansible playbooks** |
| **Introduction about Monitoring tools** |
| **installation of monitoring tools** |