**=============================Topics===================================**

**Linux Ubuntu,Centos,LVM (System Admin)**

**AMAZON WEB SERVICES (AWS)**

* Virtual Private Cloud (VPC) – Subnets , Route Table , Internet Gateways, ElasticIP NAT Gateway, Security Group, Network ACLs and VPN Connections
* Elastic Cloud Computing (EC2) –. AMI, Instance Type, Snapshots ,Volume
* STORAGES-

Simple Storage Services (S3) – Bucket, Objects, Object Versioning

* + EBS
  + EFS
  + Glacier
* Identity Access Management (IAM) - User, Groups, Roles and Policies
* Monitoring Tools AWS – CloudWatch
* Load Balancer, Auto Scaling,SNS,SES,Route53,User Data
* Configuring Resources Using Aws CLI
* EKS (optional)
* **Relational Database Service (RDS)** – MongoDb,Mysql,Redis,Elasticserch (Optional)
* **Monitoring tools like**: Grafana, InfuxDb, Prometheus, Collectd, Node-Exporter, ELK Stack ,Sentry,Nagios (Optional)

**-Terraform:** Perpose & create base line infrastructure

**-Ansible:** purpose & multiple server deployment

**-Jenkins:** jenkins basics & freestyle project deployment

**-Git:** Uses of multiple git commands

**-Docker:** container deployment & architecture

**==========================Kubernetes==============================**

* CORE COMPONENTS OF K8S(etcd,kube-apiserver,kube-controller-manager,kube-scheduler,kubelet,kube-proxy,Container runtime)
* Pod
* Node
* Namespace
* CNI,CRI,CSI
* Access Modes
* Deployments
* Services:- ClusterIP,NodePort,LoadBalancer,ExternalName
* Taint & toleration
* NodeSelector
* Deployments
* Kubectx, Kubens
* Ingress
* ReplicaSet,Rollout,Rollback,Scale
* YAML Configuration
* liveness, Readiness & health Probe
* Service Mesh
* Persistent Volume and Persistent-Vol-Claim (static & dynamic)
* Statefulset
* Deamonset
* Manifest
* Helm
* Pod-label-troubleshooting(optional)
* cronjob (optional)