**Interview Preparation Material**

**EC2**

Use words like

* Provision, Monitor, Web servers, Application Servers, EBS, Snapshots, AS, ALBs

**VPC**

Use words like

* Provisioned for network, setting up private and public network(subnets), NAT gateway, internet gateway
* VPC peering between VPCs, configure RTs, and configure VPN

**CICD pipelines**

* Docker containers, Microservices, codepipeline, codebuild, ECR, ECS, EKS

**RDS**

* Multi AZ and autoscaling storage, what is the recovery plan and how can you perform recovery

**Auto Scaling**

* Help to auto scale our cluster in 2 ways 🡪 vertical scaling (e.g increasing/decreasing instance type (cpu and memory) of a single instance)
* Horizontal scaling (e.g increasing number of instances or reducing it)

**Fault tolerance**

* ALB (Application Load Balancer)

**DNS**

* Domain Name System --> Route53 --> Created hosted zones and multiple records like A records for IPs and C-name records for ALB DNS

**Security**

* SG, Network ACLs, Keypairs, encrypting EBS and Snapshots, providing certificates for ALB publicly accessed

**Lambda**

* Create snapshot

**Snapshots**

* Backup instances by taking snapshots 🡪 Life cycle management

**How can you encrypt an encrypted snapshot?**

* Create an EBS from that snapshot while encrypting it then take a snapshot again.