* Create VPC
  + Select only vpc
  + 3-tier-vpc (10.0.0.0/16)
* Create 6 subnet
  + 3 in az1
    - Web-az1 (10.0.1.0/24)
    - App-az1 (10.0.2.0/24)
    - Db-az1 (10.0.3.0/24)
  + 3 in az2
    - Web-az2 (10.0.4.0/24)
    - App-az2 (10.0.5.0/24)
    - Db-az2 (10.0.6.0/24)
* Create an Internet get way
  + Igw3-tier
  + Attached it with 3-tier-vpc
    - Now vpc has internet access.
* Create route tables to route all the traffic towards web instances.
  + Pub-RT
  + Select vpc
  + Now edit the routing table and connect igw to it.
  + Now edit and add web-az1 and az2 subnet. Because it will give access to people to connect with web.
* Create NAT for az1 to give private subnet internet access
  + Nat-az1
  + Select web-az1 subnet
  + Allocate elastic IP
* Create NAT for az2 to give private subnet internet access
  + Nat-az2
  + Select web-az2 subnet
  + Allocate elastic IP
* Create a private route table for az1 and attach NAT to it
  + Private-RT-az1
  + Select vpc
  + Edit it and add route 🡪 0.0.0.0/0 🡪 NAT-az1
  + Now do subnet association. Add app-az1 and db-az1.
* Create a private route table for az2 and attach NAT to it
  + Private-RT-az2
  + Select vpc
  + Edit it and add route 🡪 0.0.0.0/0 🡪 NAT-az2
  + Now do subnet association. Add app-az2 and db-az2.
* Create a security group
  + Sg for web instances: - web-sg -> http-80 from 0.0.0.0/0 ssh from anywhere
  + Sg for app instances: - app-sg -> http port-4000 from internal-lb-sg and SSH from web-sh
  + Sg for db instances: - db-sg -> 3306 from app-sg
  + Sg for internal-lb: - internal-lb-sg -> (internal not internet facing) -> http from web-sg
* Create S3 bucket for project code
* Create subnet groups of db-sn using RDS
* Create database
* Create a web instance
* Log in to the web instance, create a vim file of keypair and change the permissions of the vim file to 400, to connect the app instance from the web instance.
* Create an app instance and Install MySQL on it and create a table.
* App configurations: Create credentials to connect the app to the database.
* Create a user in IAM.
* Now upload the app code in the S3 bucket.
* Do database configuration
* Now create the load balancer
* Do web configuration
* We now need to install all of the necessary components needed to run our front-end application.
* Now upload web code on s3
* 















 

