## **AWS 3 TIER PROJECT (BLOOD BANK)**

**CREATE VPC: 10.0.0.0/22** 

PUB-SN-1: 10.0.0.0/25

PUB-SN-2: 10.0.0.128/25

PRV-SN-1: 10.0.1.0/25

PRV-SN-2: 10.0.1.128/25

PRV-SN-3:10.0.2.0/24

**CREATE IGW AND ATTACH TO VPC** 

**CREATE 2 RT (PUBLIC & PRIVATE)** 

**PUBLIC - RT ----> ATTACH IGW AND SUBNET ASS** 

PRIVATE RT ---->NAT GW ATTACH & SUBNET ASS ONLY

CREATE SG FOR BANK-VPC WITH ALL TRAFFIC

**CREATE DATABSE:** 

DB instance identifier: mysqldb

username: admin

pass: admin123

**VPC: BANK-VPC** 

**SG: BANK-SG** 

endpoint: mysqldb.c7wqmm44gl92.us-east-1.rds.amazonaws.com

CREATE EC2 INSTANCE ON PRIVATE SUB-1

IT WILL NOT CONNET SO ALLOW IGW FOR THATS PRIVATE RT FOR SOMETIME (UNTILL THE SCRIPT EXECUTES) LATER WE NEED TO REMOVE IT.

run script from github

clone the repo

copy files to httpd path then we can access the app **CONFIGURE DATABASE:** update databse end point on these files vi donate-blood.php vi find-donor.php vi config.php vi search.php vi signup.php vi deletedata.php connect to database: mysql-h endpoint-u user-p enter password **CREATE DATABASES & TABLES** get the queries from github THEN CHECK IT select \* from table\_name; lets create AMI, it will take some time **LAUNCH 3 INSTANCES ON 3 PRIVATE SUBNETS** REMOVE IGW FROM PRIVATE RT **CREATE TARGET GROUP BY USING 3 INSTANCES** CREATE LB ON 2 PUBLIC SN AND CHECK WITH DNS NAME **NOW TERMINATE ALL INSTANCES** CREATE LAUNCH TEMPLATE FROM AMI CREAE ASG GROUP FROM LAUNCH TEMPLATE AND ATTACH LOAD BALANCER.

FOR MICROSERVICES:
CREATE VOLUME: docker volume create database
UPDATE HOST AS mysqldb ON ALL PHP FILES
AND USERNAME AS root
DOCKERFILE FOR APP:
FROM php:7.4-apache
# Install mysqli extension
RUN docker-php-ext-install mysqli
# Copy your application files
COPY . /var/www/html/
BUILD THE IMAGE : docker build -t image1 .
RUN IMAGE : docker run -itdname myapp -p 8089:80link mysqldb:mysqlcon image1
DOCKERFILE FOR DB:

# Dockerfile for custom MySQL

## FROM mysql/mysql-server:5.7

# Copy initialization SQL script to MySQL container

COPY init.sql /docker-entrypoint-initdb.d/

#DB\_PASSWORD

**ENV** MYSQL\_ROOT\_PASSWORD=admin123

BUILD THE IMAGE: docker build -t database.

RUN IMAGE: docker run -d --name mysqldb -v database:/mydb -p 3309:3306 database

GRANT ALL PRIVILEGES ON \*.\* TO 'root'@'%' WITH GRANT OPTION;

FLUSH PRIVILEGES;