# Challenge 1:

A 3-tier environment is a common setup. Use a tool of your choosing/familiarity create these resources. Please remember we will not be judged on the outcome but more focusing on the approach, style and reproducibility.

# Introduction

For the above challenges below setup is proposed by considering certain assumptions. I have targeted to setup environment using services available on Google Cloud.

Google cloud is preferred as set-up as it provides highly reliable and scalable cloud platform offering the best cloud computing services on the web

# Assumption

Below points are consider while going for below set-up

1. System set up is done by consider high availability of system for end user
2. Security should be available across all 3 layers
3. No redundant data should present on system

# Setup-Diagram

**Abbreviations used**

**VPC**: Virtual Private Cloud

**L.B**: Load Balancer

**C.E**.: Compute Engine

**F.RULES**: Firewall Rules

**M DB**: Master Database

**R.R**: Read Replica

# Resources Used

VPC : It provides on-premise data centre functionality in cloud. It creates a boundary between each customer’s and their environment.

Http Load Balancer :