Clone the terraform script

git clone https://github.com/dinukaSanthush/Codimite-Task-2.git

Install terraform

Run the below commands to execute the terraform script

terraform init

terraform plan

terraform apply

Cloud SQL and VM instance will be created in a private VPC

Cloud SQL assigned to a private IP address only

VM instance has both private and public addresses

SSH into VM instance;

Install MYSQL client in VM instance

 Log into MYSQL in Cloud SQL

mysql -h 10.110.16.3 -u dinuka -p

create database/table;

CREATE DATABASE TODO;

use TODO;

CREATE TABLE todo (name VARCHAR(20), Description VARCHAR(40), status VARCHAR(20));

Exit from ssh client

Install Nginx

I have used nginx as a reverse proxy between postman(API testing tool) and the backend.

```
  GNU nano 4.8                                        reverse-proxy.conf
server {
    listen 80;

     server_name  http://34.126.168.97/


    access_log /var/log/nginx/reverse-access.log;
    error_log /var/log/nginx/reverse-error.log;

    location / {
        proxy_pass http://127.0.0.1:3001;
    }
}
```

SQL proxy

Create service account

Configure VM instance to use the created service account

Download the proxy

Start the proxy

./cloud_sql_proxy -instances=terraform-363417:asia-southeast1:main-primary=tcp:3036 &

Go to the project directory

Install npm

npm install

npm start

Test with POSTMAN

Screenshots in the next page

File   Edit   View   Help

Home   Workspaces ∨   API Network ∨   Explore   Search Postman

My Workspace   New   Import

POST http://34.126.168.97/ ●

Create Monitor

No Environment ∨

http://34.126.168.97/product/create   Save ∨

Collections

APIs

Environments

Mock Servers

You don't have any mock servers.

Mock servers let you simulate endpoints and their corresponding responses in a collection without actually setting up a back end.

Create Mock Server

| POST ∨ | http://34.126.168.97/product/create |

Send ∨

Params   Authorization   Headers (8)   Body ●   Pre-request Script   Tests   Settings   Cookies

● none   ● form-data   ● x-www-form-urlencoded   ● raw   ● binary   ● GraphQL   JSON ∨   Beautify

```
1  {
2      "name": "Codemite",
3      "Description": "meeting",
4      "status" : "undone"
```

Body   Cookies   Headers (7)   Test Results   200 OK   255 ms   275 B   Save Response ∨

Pretty   Raw   Preview   Visualize   JSON ∨

```
1  {
2      "message": "Added successfully"
3  }
```

Start working with APIs

67%

Next: Save a request.   Show me

☐ ⊘ Online   🔍 Find and Replace   ⧉ Console   🍪 Cookies   ⤢ Capture requests   🎓 Bootcamp   ▷ Runner   🗑 Trash

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http://34.126.168.97/product/read

| GET ∨ | http://34.126.168.97/product/read |

Params   Authorization   Headers (8)   Body ●   Pre-request Script   Tests   Settings

● none   ● form-data   ● x-www-form-urlencoded   ● raw   ● binary   ● GraphQL   JSON ∨

```
1  {
2      "name": "Codemite",
3      "Description": "meeting",
4      "status" : "undone"
5  }
```

Body   Cookies   Headers (7)   Test Results   Status: 200 OK   Time: 107 ms

Pretty   Raw   Preview   Visualize   JSON ∨

```
 2      {
 3          "name": "dinuk",
 4          "Description": "meeting",
 5          "status": "undone"
 6      },
 7      {
 8          "name": "Codemite",
 9          "Description": "meeting",
10          "status": "undone"
11      }
```