FiverrMERNProj Setup

Step 1

Setup AWS EC2 instance with Ubuntu 18.04.2 LTS and http , https in the firewall

Setup Elastic IP to EC2 https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html

Login to Instance via SSH

RUN “sudo -i” without quotes to switch to root

Step 2

Install mongodb

apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv 9ECBEC467F0CEB10

apt-get install mongodb -y

Install libs required for nodejs and nodejs

apt-get install -y build-essential openssl libssl-dev pkg-config

apt-get install -y nodejs

Install npm , MERN Stack and Forever to run application as service

apt-get install npm -y

npm cache clean -f

npm install -g n

n stable

npm install -g mern-cli

npm install forever --global

Start mongodb service

service mongodb start

Install git and clone the project

apt-get install git

git clone https://github.com/DrewAtlas/FiverrMERNProj.git

Setup Dependencies for project and run it

App1

cd /root/FiverrMERNProj/fvApp1

npm install

forever start nodeapp1start.js

App2

cd /root/FiverrMERNProj/fvApp2

npm install

forever start nodeapp2start.js

Check if node applications are running in the background

netstat -tulpn

```
tcp        0      0 0.0.0.0:3100            0.0.0.0:*               LISTEN      26047/node
tcp        0      0 0.0.0.0:4100            0.0.0.0:*               LISTEN      26080/node
```

Install Nginx and setup reverse proxy

apt-get install nginx -y

#For reverse proxy delete all contents in /etc/nginx/sites-available/default and add below config

```
server {
        listen 80;
        listen [::]:80;

        #Website Root
        location / {
          root   /usr/share/nginx/html;
          index  index.html index.htm;
             expires 1m;
        }

        #App1 reverse proxy
```

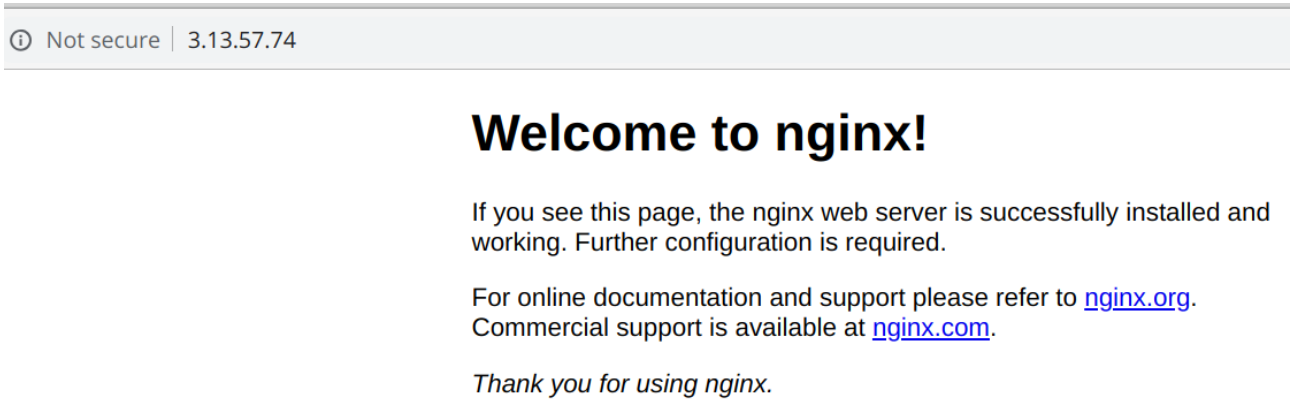
```
        location /app1/ {
                proxy_set_header X-Real-IP  $remote_addr;
                proxy_set_header X-Forwarded-For $remote_addr;
                proxy_set_header Host $host;
                proxy_pass http://127.0.0.1:3100/;
    }

        #App2 reverse proxy
        location /app2/ {
                proxy_set_header X-Real-IP  $remote_addr;
                proxy_set_header X-Forwarded-For $remote_addr;
                proxy_set_header Host $host;
                proxy_pass http://127.0.0.1:4100/;
    }

}
```

Finally restart nginx and test the urls

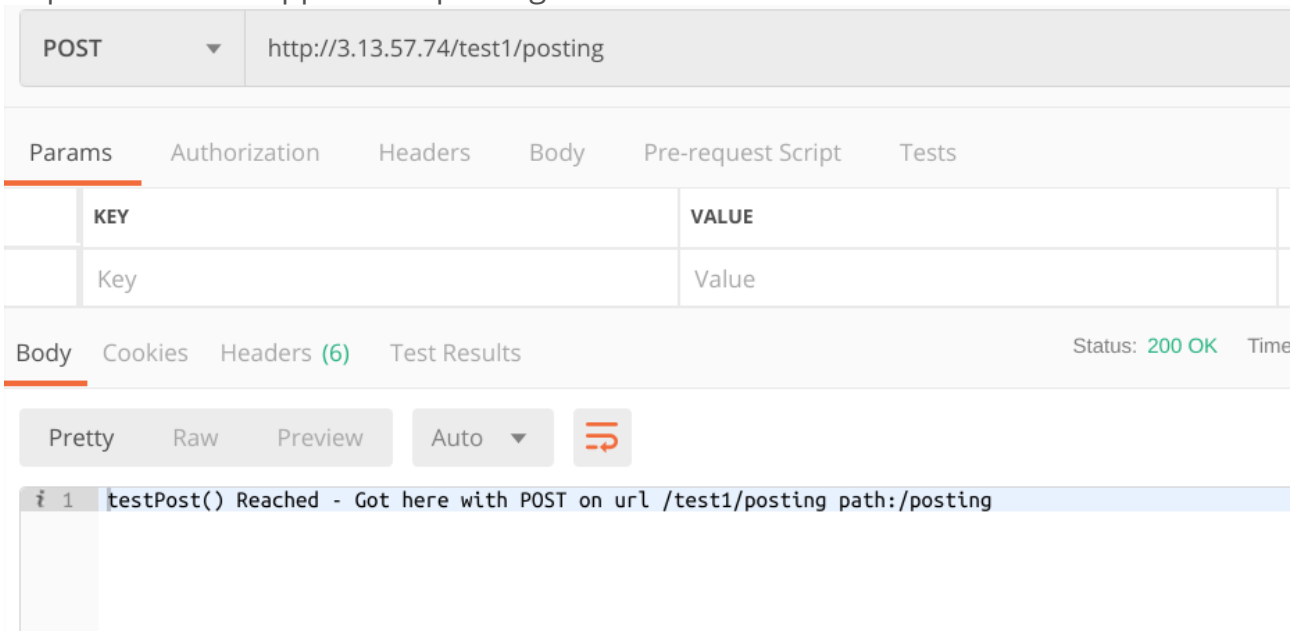
service nginx restart

Results

Default Website
http://3.13.57.74/



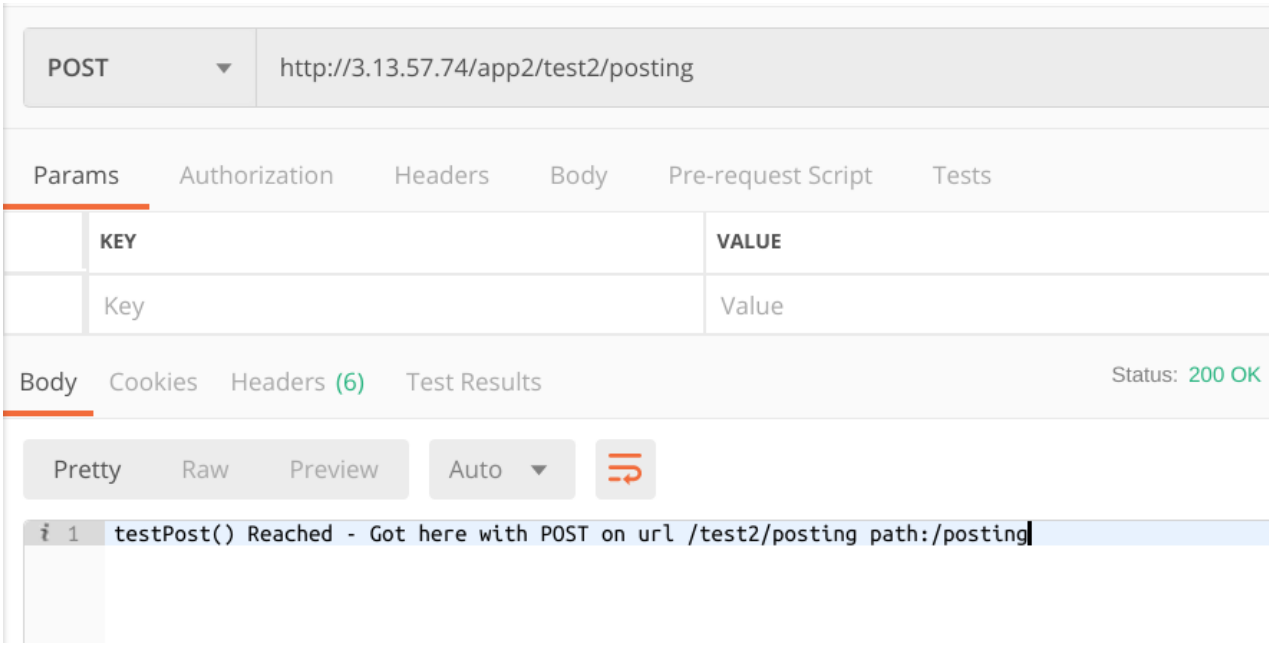
http://3.13.57.74/app1/test1/posting



App2

http://3.13.57.74/app2/test2/getting

http://3.13.57.74/app2/test2/posting



Please note we need a domain name in order to use SSL without certificate warnings, I am submitting the order since its one day delivery and we need to work together to get the requirements fullfilled for SSL setup. I will give you ssl configurations for same once you setup a domain name and point it to IP 3.13.57.74

Mongo connection string to be used and its output

```
// Set up mongoose connection
const dbBase = process.env.MONGOOSE_URL || "mongodb://aUser:aUserPw@127.0.0.1/";
// Put the database name and parameters separate so that I can use a different DB later...
const dbName = process.env.MONGOOSE_DBNAME || "Demo";
const dbParams = process.env.MONGOOSE_PARAMS || "?retryWrites=true";
```

```
root@ip-172-31-30-29:~/FiverrMERNProj/fvApp1# npm start

> fvapp1@1.0.0 start /root/FiverrMERNProj/fvApp1
> node nodeapp1start.js

Trace|MS1100|Mongoose connection started
EZSS1000| NodeTest1 listening for Requests on port: 3100
Trace|MS1040|Mongoose connection: Connected to mongodb://aUser:aUserPw@127.0.0.1/Demo?retryWrites=true
Trace|MS1060|Mongoose Connection Open
```

How to access mongodb and create database username and password for database access

Type mongo in shell to access mongo shell

```
root@ip-172-31-30-29:~# mongo
MongoDB shell version v3.6.3
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.6.3
Server has startup warnings:
2019-06-19T20:07:37.949+0000 I STORAGE  [initandlisten]
2019-06-19T20:07:37.949+0000 I STORAGE  [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine
2019-06-19T20:07:37.949+0000 I STORAGE  [initandlisten] **          See http://dochub.mongodb.org/core/prodnotes-filesystem
2019-06-19T20:07:39.082+0000 I CONTROL  [initandlisten]
2019-06-19T20:07:39.083+0000 I CONTROL  [initandlisten] ** WARNING: Access control is not enabled for the database.
2019-06-19T20:07:39.083+0000 I CONTROL  [initandlisten] **          Read and write access to data and configuration is unrestricted.
2019-06-19T20:07:39.083+0000 I CONTROL  [initandlisten]
>
```

Run below code in mongo shell to create database with user password for the access of database

Note : replace dbname dbuser and dbpassword values as needed

```
use dbname
```

```
db.createUser({
    user: 'dbuser',
    pwd: 'dbpassword',
    roles: [{ role: 'readWrite', db:'dbname'}]
})
```