

















www.linkedin.com/in/shanmuga-priya-e-tech2





















Episode - 2

Backend APP Deployment and connecting Frontend & Backend

Steps involved in deploying Backend APP:

we have already created an instance and cloned own backend project in previous episode now we will deploy it.

step 1: Move to Backerd folder & install necessary dependencies npm install

Step 2: Copy Ip address to Mongo DB

Inorder to run a project in instance we use npm start. Before that we need to allow access of our DB to the instance Ip Address. Sake the local Ip address of instance in the DB atlass. Now the DB connection is successfull

Step 3: Enable the port

to enable the port go to security then security groups there we set a new inbound rules to include the port NO 7777.

Issue with current implementation:

whenever the terminal is closed the source will also be shutdown but we cannot keep the terminal open all the time we need to run application in the background all the time for that we use a package called "PM2"

what is PM&?

> PM2 is a process manager that will help us manage and keep our application online 24/7. It is an open source Process manager for Node-js application. npm install pm2 -g.

step 4: Start our app in Pmg. Now we start own app in the PM2 process manager to nun own application 24/7 using Pm2 start npm -- start This command will sun npm start in the background by creating a new process that keeps on running 24/7 in the background. - This make our app numning even after the terminal is closed cor) logged out from the instance. Pm2 logs - it gives logs of all nurning process. Pm2 glush name of the Process/ -> to clear the logs. Pm2 list > list of processess started by Pm2. Pm2 stop process name -> to stop the process. Pma delete processname -> to delete the process. we can also give a custors name to the process before starting Pma start npm --name "devtinder" -- start. Connecting frontend & backerd Step 1: Configure nginx.

We need to configure nginx to map /api to port num 7777 unorder to ease access joi wers this way user need not deal with ports in URL's. without nginx: frontend: http://ex.com Backend: http://ex.com: 7777/ with nginx: http://ex-com/api . (both gunt end & backerd)

Behind the scence when the browser sends a neg to http://ex.com/api nginx neceives this e gorward to http://localhost:7777/api.

frontend -> rginx -> backend

```
Stepa open the minx configuration the
        sudo nano letc/nginx/sites-available/default
 Step &: edit the rainx file.
 1) change the server name from - to domain name (or) local IP address
              senver name Domainname/Ipaddress.
   2) add the proxy-pass lines below it.
            location /api 13
               Proxy-Pass http://localhost:7777/;
               Proxy-http-vousion 1.1;
                 Proxy-set-header Upgrade $http_upgrade;
             Proxy-set-header Connection 'upgrode';
        Prony_set_header Host & host;
               Proxy-cache-bypass $http-cupgiade;
It says whenever you see a location papi just redirect it to localhost: 77
Step 8: Save the gik.
    Ctrl+C > to exit it will ask to save it type 4. and enter.
Step2: Restart rginx.
    after the nginx jile updated we need to restart the nginx
          sudo systematl mestart nginx
Step 3: Replace the backend URL in the guntend file with the "api".
    Const BASEURL = "http://llocalhost: 7777/" -> const BASEURL = "/api".
and push it to github.
Step 4: Make a pull req in the instance terminal to get updated with
latest commit-
               git pull.
```

steps: Build the grantend once again.

As we updated the code in frontend inorder to reflect the changes made we need to bundle it again and copy the dist folder to nginx.

Tike we did when deploying frontend.

npm nun build

Now, both grantend & backend are connected successfully.