Using a full working website in node, has frontend and backend

First create an instance

Connect to the instance using ssh -I key username@public\_ip

The key should only have read permission. If more permission given then error for having too many permissions. File not secure.

Use: chmod 400 filename

Load the file to the instance using scp -I key directory\_name username@public\_ip:

    7  sudo apt-get-update  
    8  sudo yum install bzip2 tar  
    9  sudo apt-get install bzip2 tar

**bzip2**: A compression tool that compresses files using the Burrows-Wheeler algorithm.

**tar**: A utility used to create and extract archive files, often used in combination with compression tools like bzip2 or gzip. The .tar format is often combined with compression to produce .tar.bz2 or .tar.gz files.

These are done automatically by the linux system

If the file is in zip format, you need to : sudo apt install unzip

Then unzip the zip file: unzip file

If using putty then use mnt command to mount the file in ubuntu from windows.

   36  sudo apt install nginx  
   37  sudo systemct1 start nginx  
   38  sudo systemctl start nginx  
   39  sudo systemctl enable nginx  
   40  sudo ufw allow 'Nginx Full'  
   41  sudo systemctl status  
   51  sudp apt install curl : to download anything from web  
   52  sudo apt install cur;  
   53  sudo apt install curl  
   58  cd /etc  
   59  ls  
   60  cd nginx  
   61  cd nginx.config  
   62  nginx.config  
   63  ls  
   64  cd nginx.conf  
   65  open  nginx.conf: if you want to configure nginx  
   66  sudo apt upgrade

230  git clone <https://github.com/sshrestha/devops-class.git>  
  231  sudo apt install git  
  232  git clone <https://github.com/sshrestha/devops-class.git>  
  233  sudo apt install git  
  234  git clone <https://github.com/sshrestha/devops-class.git>  
  235  ssh -i day4.pem /home/mangesh/devops/devops-class-main.zip [ubuntu@18.208.152.105](mailto:ubuntu@18.208.152.105):  
  236  scp -i day4.pem /home/mangesh/devops/devops-class-main.zip [ubuntu@18.208.152.105](mailto:ubuntu@18.208.152.105):  
  237  history  
  238  scp -i day3.pem /home/mangesh/devops/devops-class-main.zip [ubuntu@18.208.152.105](mailto:ubuntu@18.208.152.105):  
  239  scp -i day3.pem /home/mangesh/devops/devops-class-main.zip [ubuntu@34.239.120.218](mailto:ubuntu@34.239.120.218):  
  240  clear  
  241  cd ..  
  242  ls  
  243  cd devops  
  244  chmod 400 day5.pem  
  245  ssh -i day5.pem [ubuntu@54.210.117.157](mailto:ubuntu@54.210.117.157)  
  246  crontab -e  
  247  ssh -i day4.pem [ubuntu@18.208.152.105](mailto:ubuntu@18.208.152.105)  
  248  chmod 400 day2.pem  
  249  chmod 400 day4.pem  
  250  ssh -i day4.pem [ubuntu@18.208.152.105](mailto:ubuntu@18.208.152.105)  
  251  history  
  252  chmod 400 day3.pem  
  253  ssh -i day3.pem [ubuntu@34.239.120.218](mailto:ubuntu@34.239.120.218)  
  254  scp -i day5.pem devops-class-main.zip [ubuntu@54.210.117.157](mailto:ubuntu@54.210.117.157):  
  255  chmod 400 domain.pem  
  256  ssh -i domain.pem [ubuntu@184.73.86.162](mailto:ubuntu@184.73.86.162)  
  257  scp -i domain.pem devops-class-main [ubuntu@184.73.86.162](mailto:ubuntu@184.73.86.162):  
  258  scp -i domain.pem devops-class-main.zip [ubuntu@184.73.86.162](mailto:ubuntu@184.73.86.162):  
  259  chmod 400 part2.pem  
  260  ssh -i part2.pem [ubuntu@18.234.205.147](mailto:ubuntu@18.234.205.147)  
  261  scp -i cloudflare.pem devops-class-main.zip [ubuntu@3.95.217.133](mailto:ubuntu@3.95.217.133):  
  262  chmod 400 day6.pem  
  263  ssh -i day6.pem [ubuntu@54.221.160.10](mailto:ubuntu@54.221.160.10)  
  264  history

6 sudo apt install mysql-server

7 ls

8 cd devops-class-main/

9 cd all\_in\_docker/

10 tmux new -s client

11 tmux new -s server

12 sudp apt install curl

13 sudo apt install curl

14 ls

15 cat mysql.txt

16 sudo mysql -u root: make a database and a table

17 cd ~

18 curl https://raw.githubusercontent.com/creationix/nvm/master/install.sh | bash

19 nvm ls

20 source ~/.bashrc

21 curl https://raw.githubusercontent.com/creationix/nvm/master/install.sh | bash

22 cd ~

23 curl https://raw.githubusercontent.com/creationix/nvm/master/install.sh | bash

24 nvm ls

25 nvm install 16

26 nvm ls

27 sudo apt install nginx

28 tmux a -t client: configure the .env file

29 tmux a -t server: configure the index.js file

30 tmux new -s client

31 tmux new -s server

32 cd /etc/nginx/

33 ls

34 cd sites-enabled/

35 ls

36 sudo rm -rf default

37 sudo vi frontend

server {

    listen 80;

    server\_name localhost;

    root /home/ubuntu/devops-class/all\_in\_docker/client/build;

    index index.html;

    access\_log /var/log/nginx/localhost\_access.log;

    error\_log /var/log/nginx/localhost\_error.log;

    location / {

        try\_files $uri $uri/ =404;

    }

}

Make the directory executable

44 chmod +x /home

45 sudo chmod +x /home

46 sudo chmod +x /home/ubuntu

47 cd /etc/systemd/system/

48 ls

Make a backend part

sudo vi backend

server {

listen 80;

server\_name shresthamangesh.com.np;

location / {

proxy\_pass http://localhost:3001;

proxy\_http\_version 1.1;

proxy\_set\_header Upgrade $http\_upgrade;

proxy\_set\_header Connection 'upgrade';

proxy\_set\_header Host $host;

proxy\_cache\_bypass $http\_upgrade;

}

}

Make a service to run the backend

49 sudo vi backend.service

[Unit]

Description=Your Node.js Backend

After=network.target

[Service]

Environment=NODE\_ENV=production

ExecStart=/home/ubuntu/.nvm/versions/node/v14.21.3/bin/node index.js

WorkingDirectory=/home/ubuntu/docker\_course/all\_in\_docker/server

Restart=always

RestartSec=10

StandardOutput=syslog

StandardError=syslog

SyslogIdentifier=client

[Install]

WantedBy=multi-user.target

50 which node

51 sudo vi backend.service

52 sudo systemctl restart nginx

53 sudo systemctl status nginx

54 cd

55 cd /etc /nginx

56 cd /etc/nginx/

57 ls

58 cd sites-enabled/

59 ls

60 sudo vi frontend

Make a build file in the frontend

Npm run build

Always restart the nginx after making a build file

61 sudo systemctl restart nginx

62 sudo systemctl status nginx

63 sudo systemctl start backend

64 sudo systemctl status backend

65 cd

66 cd devops-class-main/all\_in\_docker/server/

67 cat index.js

68 sudo vi index.js

69 cd

70 history

Configure the inbound settings in the aws instance.