EC2 Instance Setup Commands to launch a website in AWS

Connect to EC2
- chmod 400 ironclad-farhan.pem
- ssh -i ironclad-farhan.pem ubuntu@ec2-35-88-144-6.us-west-2.compute.amazonaws.com
Instance
sudo apt update (Update Instance)

Install NodeJS (v14)
- curl -sL https://deb.nodesource.com/setup_14.x | sudo bash -
- cat /etc/apt/sources.list.d/nodesource.list
- sudo apt -y install nodejs
- node —version
Install MySQL (Latest)
- sudo apt install mysql-server
- sudo service mysql status
- sudo mysql
- ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'admin_Ironclad_2022'; (If doesn't work, type it instead copying and pasting)
- exit;
- sudo mysql_secure_installation
- sudo mysql -u root -p & put password admin_Ironclad_2022
- create database ironclad_db_portal

Install PM2
- sudo npm install -g pm2
- sudo pm2 startup systemd

Install Nginx
- sudo apt-get install -y nginx
- sudo ufw allow OpenSSH
- sudo ufw allow 'Nginx Full'
- sudo ufw --force enable

Install Yarn
- curl -sS https://dl.yarnpkg.com/debian/pubkey.gpg | sudo apt-key add -
- echo "deb https://dl.yarnpkg.com/debian/ stable main" | sudo tee /etc/apt/sources.list.d/yarn.list
- sudo apt update && sudo apt install --no-install-recommends yarn

Setup project from git
- Commands might change depending on your project setup
- cd ../../
- sudo mkdir app, mkdir portal
- sudo git clone https://gitlab.com/ironclad-investments/ironclad-investments.git
- git config --global --add safe.directory /app/ironclad-investments
- cd ironclad-investments
- sudo git checkout prod-portal
- cd server, sudo npm i (or sudo yarn)
- sudo npm run prisma-wohoo
- sudo npm start, Control-C
- sudo pm2 start dist/index.js
- cd ../client

- sudo npm i (or sudo yarn)

NPM I takes too long (if)
- https://github.com/microsoft/WSL/issues/7254

Build files location & copy build
- go to root folder & cd home/
- sudo mkdir app-deploy
- sudo mkdir portal
- sudo cp -r app/portal/ironclad-investments/client/build/ home/app-deploy/portal/

NGINX Setup
- cd etc/nginx/sites-available/
- sudo rm -r default , cd ../sites-enabled/ , rm -r default (remove default nginx conf)
- cd ../sites-available/
- sudo nano portal & put config :

```
server {
  listen 80 default_server;
  server_name ip portal.ironcladinvestments.co.uk ww.portal.ironcladinvestments.co.uk;

  root /home/app-deploy/portal/build;
  index index.html indexmhtm;

 location / {
  try_files $uri /index.html;
 }
  location /api {
      proxy_pass https://api.ironcladinvestments.co.uk; (Or http://localhost:4000)
      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;
 }
}
```

- save it (ctl x, y, enter)
- sudo nano api-portal & put config :

```
server {
    server_name ip api.ironcladinvestments.co.uk ww.api.ironcladinvestments.co.uk;
    location / {
      proxy_pass http://localhost:4000;
      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;
   }
}
```

- save it (ctl x, y, enter)
- cd ../sites-enabled/
- sudo ln -fs ../sites-available/portal
- sudo ln -fs ../sites-available/api-portal
- sudo nginx -t
- sudo systemctl restart nginx

Add SSL Certificated Video URL : https://www.youtube.com/watch?v=R5d-hN9UtpU

Connect To VPS Database (MYSQL, TablePlus Setup) :