

EC2 Instance Setup Commands to launch a website in AWS

Connect to EC2

- chmod 400 ironclad-farhan.pem
- ssh -i sample-key.pem ubuntu@ec2-43-12-143-3.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 www.portal.ironcladinvestments.co.uk;

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

    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 www.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 Certification Video URL : <https://www.youtube.com/watch?v=R5d-hN9UtpU>

Connect To VPS Database (MYSQL, TablePlus Setup) : Change ubuntu to root
If you are using DigitalOcean

MySQL Connection

Name: IroncladDB-AWS Ver.: Default

Status color: Tag: local

Host: 127.0.0.1 Port: 3306

☐ Use socket /tmp/mysql.sock

User: root Other options: ▼

Password: ●●●●●●●●●●●●●●●● Store in keychain: ▼

Database: ironclad_db_portal Bootstrap commands...

SSL mode: PREFERRED

SSL keys: Set SSL mode key... Cert... CA Cert... —

Over SSH

Server: 13.41.241.137 Port: 22

User: ubuntu

Password: ●●●●●●●●●●●●●●●● Store in keychain: ▼

☒ Use SSH key ironclad-portal-key.pem —

TablePlus will use ~/.ssh/config if you leave private key empty

Save Test Connect