

PingSafe Project

This is a project that involves setting up a Node.js application with Docker and using Nginx as a reverse proxy. The application is hosted on Server 1, and the reverse proxy is set on Server 2.

Server 1 (18.181.177.25)

To set up Server 1, perform the following steps:

1. Clone the required git repo to your local

```
git clone https://github.com/abhishek-pingsafe/Devops-Node.git
```

2. Create a docker file to containerize the app.

```
cd Devops-Node
vim Dockerfile
```

3. The Dockerfile should have the below content:

```
Copy code
FROM node:14
WORKDIR /app
COPY . .
RUN npm install -g npm@latest
RUN npm install
EXPOSE 3000
CMD ["npm", "start"]
```

4. now, build and run the Docker container:

```
docker build -t app:v1 .
docker run --name app -d -p 3000:3000 app:v1
```

Also, I have made one script that will publish the app on port 3000.

1. Open any new ubuntu instance. And run the below script.

```
#!/bin/bash
sudo apt update
sudo git clone https://github.com/abhishek-pingsafe/Devops-Node.git
sudo apt install docker.io -y
sudo chown -R ubuntu:ubuntu /home/ubuntu/Devops-Node/
echo 'FROM node:14
WORKDIR /app
COPY . .
RUN npm install -g npm@latest'
```

```

RUN npm install
#COPY . .
EXPOSE 3000
#EXPOSE 443
#EXPOSE 80
CMD ["npm", "start"]
' > /home/ubuntu/Devops-Node/Dockerfile
# sudo chown -R ubuntu:ubuntu /home/ubuntu/Devops-Node/
sudo docker build -t app:v1 /home/ubuntu/Devops-Node
sudo docker run --name app -d -p 3000:3000 app:v1

```

Server 2 (54.158.188.191)

To set up Server 2, perform the following steps:

1. Below steps will ready the instance to add the reverse proxy file.

```

apt update
apt install nginx -y
cd /etc/nginx/
mkdir sites-available_backup
mkdir sites-enabled_backup
mv sites-available/default sites-available_backup/
mv sites-enabled/default sites-enabled_backup/
vim /etc/nginx/sites-available/app

```

2. This app file should have the following content:

```

server {
    listen 80;
    server_name 54.158.188.191;
    return 301 https://54.158.188.191$request_uri;
}
server {
    listen 443 ssl;
    server_name 54.158.188.191;
    ssl_certificate /etc/nginx/certificate.pem;
    ssl_certificate_key /etc/nginx/decrypted_private_key.pem;
    location /now {
        proxy_pass "http://18.181.177.25:3000";
    }
    location /healthz {
        proxy_pass "http://18.181.177.25:3000";
    }
}

```

```
}  
}
```

3. Then, create a symbolic link to the sites-enabled folder and restart Nginx:

```
ln -s /etc/nginx/sites-available/app /etc/nginx/sites-enabled/app  
systemctl restart nginx
```

Github link:

The Github link **for** this project is
<https://github.com/abhishek-pingsafe/Devops-Node>.