**How to Host Mern+NextJs Website on Digital Ocean**

1. create a droplet in **digital Ocean**
2. config **Droplet IP** address in **cloud Flare**
3. open terminal and login in droplet
   1. command
      1. **ssh root@dropletIP**
      2. password
4. for update droplet package
   1. **sudo apt update && sudo apt upgrade –y**
5. for install necessary tools (nodejs,git,niginx)
   1. **sudo apt install -y nodejs npm git curl nginx**
6. For update all the packages to their latest version
   1. **curl -fsSL https://deb.nodesource.com/setup\_current.x | sudo -E bash -**
   2. **sudo apt install -y nodejs**
7. Install PM2 for Run Your Codes
   1. **sudo npm install -g pm2**
8. go in the server directory
   1. **cd /var/www/**
9. Clone your project from git
   1. **git clone** [**https://github.com/your-username/your-repo.git**](https://github.com/your-username/your-repo.git)
   2. **cd your-repo**
10. install all the packages for your mern and nextjs
    1. For Node
       1. **cd your-backend**
       2. **npm install**
    2. For Next
       1. **cd your-nextjs**
       2. **npm install**
    3. For React
       1. **cd your-reactjs**
       2. **npm install**
11. configure Env files
    1. For Node
       1. **cd backend**
       2. **nano .env**
       3. **write your credentials**
       4. **for save file**
          1. **CTRL+X**
          2. **Y**
          3. **Enter**
    2. For Next
       1. **cd frontend**
       2. **nano .env.local**
       3. **write your credentials**
       4. **for save file**
          1. **CTRL+X**
          2. **Y**
          3. **Enter**
    3. For React
       1. **cd your-reactjs**
       2. **nano .env**
       3. **write your credentials**
       4. **for save file**
          1. **CTRL+X**
          2. **Y**
          3. **Enter**
12. Then start you nextjs folder
    1. **cd your-nextjs**
    2. **npm run build**
    3. **pm2 start npm --name "nextjs-app" – start**
    4. **pm2 save**
    5. **pm2 startup**
13. Then Start Your react
    1. **cd your-reactjs**
    2. **npm run build**
    3. **sudo mv build /var/www/html/admin**
14. Then Start Your Server
    1. **cd your-backend**
    2. **pm2 start npm --name "backend-app" – start**
    3. **pm2 save**
    4. **pm2 startup**
15. Then Config Nginx
    1. **sudo nano /etc/nginx/sites-available/default**
    2. then add The you credentials
       1. For React
       2. **server {**

**listen 80;**

**server\_name dashboard.youdomain.com;**

**root /var/www/html/admin/build;**

**index index.html;**

**location / {**

**try\_files $uri /index.html;**

**}**

**}**

* + 1. For Node
    2. **server {**

**listen 80;**

**server\_name api.youdomain.com;**

**location / {**

**proxy\_pass http://localhost:5000;**

**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;**

**}**

**}**

* + 1. For Media
    2. **server {**

**listen 80;**

**server\_name media.youdomain.com;**

**root /var/www/ProjectYP/media;**

**index index.html;**

**location / {**

**autoindex on;**

**try\_files $uri /index.html;**

**}**

**location ~\* \.(jpg|jpeg|png|gif|svg|webp)$ {**

**root /var/www/ProjectYP/media;**

**expires max;**

**access\_log off;**

**}**

**}**

* + 1. For Next Js
    2. **server {**

**listen 80;**

**server\_name youdomain.com;**

**location / {**

**proxy\_pass http://localhost:3000;**

**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;**

**}**

**}**

1. Then test your nginx config
   1. **sudo nginx –t**
2. Then Start Nginx
   1. **sudo systemctl restart nginx**
3. Then Test Your Website

For Check Your Website Status in droplet

1. **pm2 list**
2. **pm2 restart all**
3. **pm2 stop nextjs-app**