

## MINARMARKET DEPLOYMENT

**Domain:** GoDaddy

**Deployment Platform:** Hostinger VPS (KVM-2)

### Domain Configuration:

The domain is pointed towards VPS using the DNS record. Here is the tutorial:

[https://www.youtube.com/watch?v=NM2NkMfQLWI&t=108s&ab\\_channel=HostingerAcademy](https://www.youtube.com/watch?v=NM2NkMfQLWI&t=108s&ab_channel=HostingerAcademy)

### **GoDaddy:**

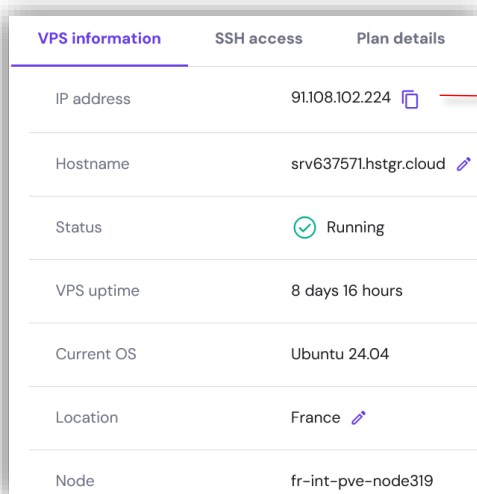
Login -> DNS -> Create/Edit A record -> Record type: A -> Name: @ -> Paste the IP address of VPS  
-> Do not change the TTL -> Add record

Type ?	Name ?	Data ?	TTL ?	Delete	Edit	
<input checked="" type="checkbox"/>	A	@	91.108.102.224	600 seconds		
<input type="checkbox"/>	NS	@	ns07.domaincontrol.com.	1 Hour	Can't delete	Can't edit
<input type="checkbox"/>	NS	@	ns08.domaincontrol.com.	1 Hour	Can't delete	Can't edit
<input checked="" type="checkbox"/>	CNAME	www	minarmarket.com.	1 Hour		

Figure 1: Minar Market DNS page -GoDaddy

### **Hostinger VPS Panel:**

Login -> VPS -> VPS information -> Copy IP address



VPS information	SSH access	Plan details
IP address	91.108.102.224	
Hostname	srv637571.hstgr.cloud	
Status	Running	
VPS uptime	8 days 16 hours	
Current OS	Ubuntu 24.04	
Location	France	
Node	fr-int-pve-node319	

**Same!**

Figure 2: VPS Information - Hostinger

## Deploy Full Stack MERN Project on Hostinger VPS

Here is the complete tutorial link:

[https://github.com/GreatStackDev/notes/blob/main/Deploy\\_MERN\\_on\\_VPS.md#1-preparing-the-vps-environment](https://github.com/GreatStackDev/notes/blob/main/Deploy_MERN_on_VPS.md#1-preparing-the-vps-environment)

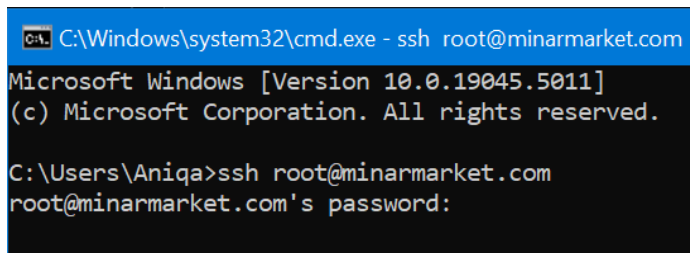
The deployment comprises of the following steps:

### **1. Preparing the VPS Environment:**

*Login to Hostinger -> VPS terminal -> Copy IP address.*

Since we have configured the domain i-e the IP address is pointing towards the domain so we can use either.

- `ssh root@91.108.102.224`
- Enter the root password



```
C:\Windows\system32\cmd.exe - ssh root@minarmarket.com
Microsoft Windows [Version 10.0.19045.5011]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Aniqa>ssh root@minarmarket.com
root@minarmarket.com's password:
```

### **2. Setting Up the MongoDB Database (Optional)**

If you want to setup MongoDB on VPS Follow this Guide: [click here](#)

### **3. Deploying the Express and Node.js Backend**

Clone the git repository:

- `git clone https://github.com/umerjamil28/MinarMarket\_Development.git`
- `cd your-repo/backend`

### **4. Deploying the React Frontends**

Creating Build of React Applications. Follow the tutorial

### **5. Configuring Nginx as a Reverse Proxy**

We are using **Nginx** as compared to Apache because it provides reverse proxy. The purpose of using a reverse proxy like Nginx in a MERN stack application is to cache frequently accessed data and reduce database load, thereby improving the application's

performance and responsiveness. It provides an additional level of abstraction and control to ensure the smooth flow of network traffic between clients and servers.

There are 2 methods to do this:

- By creating a symbolic link as mentioned in the tutorial. It didn't work in our case. The reason is unknown
- So, we setup reverse proxy by using rsync. Here is the tutorial: [rsync-nginx](#)

## 6. Setting Up SSL Certificates

### Final Notes:

The deployment setup that we have created until now is permanent setup. Each time we have to run 5 6 commands to deploy.

#### For Backend:

- `cd backend`
- `npm i`
- `service restart`

#### For frontend:

- `cd frontend`
- `npm i`
- Check sync:
  - If sync -> proceed
  - If not -> run script `./sync.sh`
- `npm run build`
- `restart nginx`