Deploying a Backend on DigitalOcean VPS and Linking with Domain

1. Buy a VPS on DigitalOcean

- Log in to DigitalOcean and create a Droplet. - Choose Ubuntu OS, a plan, and datacenter region. - Select authentication (SSH recommended). - Once created, note the Droplet's public IP address.

2. Point Your Domain to DigitalOcean

- Log in to your domain registrar (GoDaddy, Namecheap, etc.). - Open DNS settings. - Create A records pointing your domain to the Droplet IP: @ → www → - Wait 10–30 minutes for DNS propagation.

3. SSH Into the VPS

From your local terminal: ssh root@

4. Install Dependencies

Run: apt update && apt upgrade -y apt install -y curl git curl -fsSL https://deb.nodesource.com/setup_20.x | bash - apt install -y nodejs npm install -g pm2

5. Deploy Your Backend

- Clone your repository: git clone /var/www/app cd /var/www/app - Install dependencies: npm install - Start the app with PM2: pm2 start server.js --name backend pm2 save pm2 startup

6. Configure Nginx Reverse Proxy

- Install Nginx: apt install nginx -y - Create config: nano /etc/nginx/sites-available/backend Add: server { server_name yourdomain.com www.yourdomain.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; } } - Enable site: ln -s /etc/nginx/sites-available/backend /etc/nginx/sites-enabled/ nginx -t systemctl restart nginx

7. Enable HTTPS (SSL)

Run: apt install certbot python3-certbot-nginx -y certbot --nginx -d yourdomain.com -d www.yourdomain.com

Done!

Your backend is now live at: https://yourdomain.com