**Install Required Dependencies**

sudo apt update

sudo apt install -y nginx

Install .NET SDK & Runtime (if not installed):

wget https://packages.microsoft.com/config/ubuntu/$(lsb\_release -rs)/packages-microsoft-prod.deb -O packages-microsoft-prod.deb

sudo dpkg -i packages-microsoft-prod.deb

sudo apt update

sudo apt install -y dotnet-sdk-8.0 dotnet-runtime-8.0

## Publish Your ASP.NET Web API

dotnet publish -c Release -o /var/www/myapp

## 3. Install PM2

sudo npm install -g pm2

## 4. Create a PM2 Process for ASP.NET API

cd /var/www/myapp

pm2 start "dotnet /var/www/myapp/MyApp.dll" --name myapp

pm2 save

pm2 startup  
and  
module.exports = {

apps: [

{

name: "myapp",

script: "dotnet",

args: "/var/www/myapp/MyApp.dll",

exec\_mode: "fork",

instances: 1,

autorestart: true,

watch: false,

max\_memory\_restart: "500M",

env: {

ASPNETCORE\_ENVIRONMENT: "Production",

DOTNET\_PRINT\_TELEMETRY\_MESSAGE: "false"

}

}

]

};

## 5. Configure Nginx as a Reverse Proxy

sudo nano /etc/nginx/sites-available/myapp

sudo ln -s /etc/nginx/sites-available/myapp /etc/nginx/sites-enabled/

sudo nginx -t

sudo systemctl restart nginx

## 6. Set Up a Firewall (Optional)

sudo ufw allow 'Nginx Full'

## Auto-Restart on Server Reboot

pm2 startup

pm2 save

## 8. Check Logs and Debug Issues

pm2 logs myapp

pm2 restart myapp