

# ■ Deployment Guide: Running Next.js App with PM2

## ■ Overview

This guide documents the steps to deploy a Next.js application using PM2, run it in the background, serve it on port 3001, and configure it to restart automatically when the server reboots. It also covers how to switch from Turbopack to Webpack for stable production deployment.

## ■ Disable Turbopack & Build with Webpack

1. Edit next.config.ts to disable Turbopack:

```
const nextConfig = { experimental: { turbopack: false, // Disable Turbopack }, };  
export default nextConfig;
```

2. Remove old Turbopack build:

```
```bash rm -rf .next ```
```

3. Rebuild the app using Webpack:

```
```bash npm install npm run build ```
```

## ■ Start App with PM2 on Port 3001

Start the application using the following command:

```
```bash PORT=3001 pm2 start npm --name "Compliance-system" -- start ```
```

## ■ Enable PM2 Auto-Restart on Boot

1. Run startup setup:

```
```bash pm2 startup ```
```

2. Run the command it outputs (example):

```
```bash sudo env PATH=$PATH:/home/youruser/.nvm/versions/node/v18.17.1/bin pm2  
startup systemd -u youruser --hp /home/youruser ```
```

3. Save current process list:

```
```bash pm2 save ```
```

## ■ Use ecosystem.config.js (Optional)

Create a file named ecosystem.config.js:

```
module.exports = { apps: [{ name: "Compliance-system", script: "npm", args: "start",  
env: { PORT: 3001, NODE_ENV: "production" } } ]};
```

Then run:

```
```bash npm run build pm2 start ecosystem.config.js pm2 save ```
```

## ■ Reboot Test

Reboot the server to confirm auto-restart works:

```
```bash sudo reboot ```
```

After reboot, check that the app is running:

```
```bash pm2 ls ```
```

## ■ Additional Tips

- Add `.next` to `.gitignore` to avoid committing build artifacts.
- Use `pm2 logs Compliance-system` to view live logs.
- Use `pm2 stop`, `restart`, or `delete` to manage the app.