

KNOWLEDGE BASE · PUBLIC DOCUMENT

Deploying a Node.js or Python app from Git: pull, install, restart

Node.js, Python & Docker

CODE

RLX-MZ-KB-1103

VERSION

v2026.10.10

COUNTRY · LANGUAGE

Mozambique · English

MozOut Mozambique

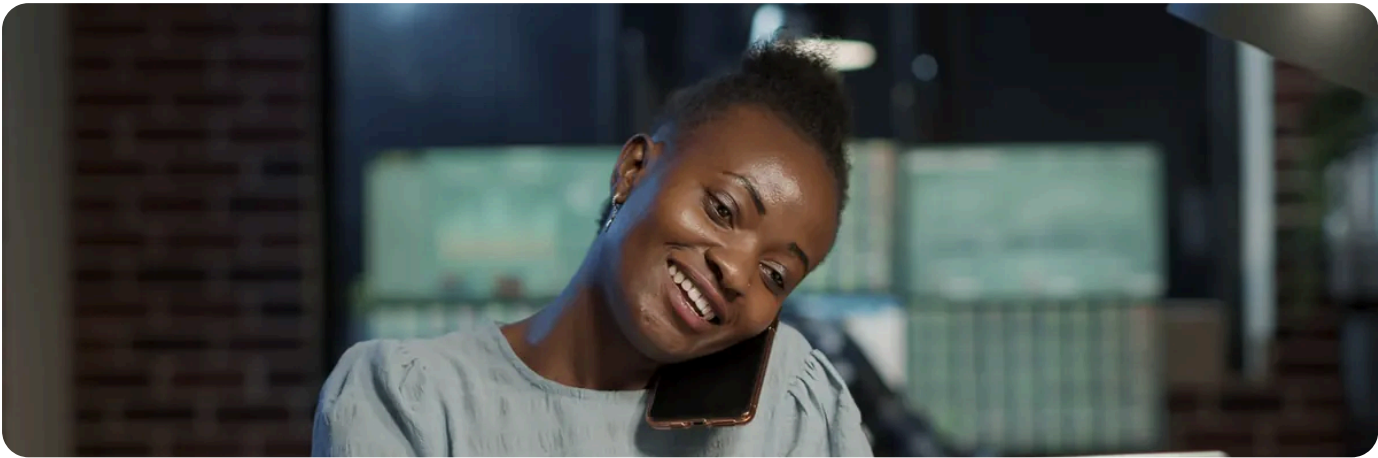
RLX Holdings, S.A. · Group RLX Holdings

Tax ID (NUIT) 401 191 607 · Legal entity no. (NUEL) 105 045 974 · Economic activity code (CAE) 62022

<https://www.meu.mozout.co.mz/knowledgebase/1103>

Deploying a Node.js or Python app from Git: pull, install, restart

📁 Node.js, Python & Docker 📅 Created on **October 10, 2026** ⌚ 3 min read



Publishing over FTP works, until the day you forget a file. With Git, deployment becomes the same sequence every time: **pull the code, install the dependencies, restart**. On a PHP site, copying files is enough; on a Node.js or Python application the last two steps are missing, and that is where deployments fail. This article puts the sequence in order, for cPanel and for a VPS.

➞ The sequence, and what each step does

Step	Node.js	Python
1. Pull the code	<code>git pull</code>	<code>git pull</code>
2. Install the dependencies	<code>npm ci</code> (in cPanel, “Run NPM Install”)	<code>pip install -r requirements.txt</code> (in cPanel, “Run Pip Install”)
3. Build, if needed	<code>npm run build</code>	In Django: <code>python manage.py migrate</code> and <code>collectstatic</code>
4. Restart	The application’s button (cPanel), or <code>pm2 restart name</code> (VPS)	The application’s button (cPanel), or <code>sudo systemctl restart name</code> (VPS)

🌐 In cPanel

- 1

Create the repository in the account with cPanel’s version control tool, or with `git clone` in Terminal, in a folder **outside the public folder**. A private repository needs the server to have access: see the warning below. The tool’s walk-through, and why `.git` never stays in view, is in **publishing your site from a repository**.

2 Use that folder as the application root in “Setup Node.js App” or “Setup Python App”. That way `git pull` updates exactly what the application runs.

3 Enter the application’s environment (the command is at the top of the screen), then pull and install:

```
git pull
npm ci
```

4 Restart with the button on the application screen. Without the restart, the application keeps serving the old code.

🔄 On a VPS: a deployment script

On a VPS you write the sequence once, in a file, and run it with a single command. Example for a Node.js application with PM2 (adapt the folders and the name):

```
#!/bin/bash
set -e
cd /home/appuser/app
git pull --ff-only
npm ci
npm run build
pm2 restart my-app
```

`set -e` makes the script stop at the first error, so it does not restart an application halfway through a failed install. For Python, swap the middle lines for `.venv/bin/pip install -r requirements.txt` and restart the service with `sudo systemctl restart name`.

! Private repository: use a read-only key.

Do not put your Git password on the server. Create an SSH key pair on the server (`ssh-keygen -t ed25519`) and register the public key as a read-only “deploy key” on the service that hosts the repository. If the key leaks, all it can do is read one repository. And never put `.env` , `node_modules` or the virtual environment in the repository.

💡 To roll back

, Git keeps the history: `git log --oneline` lists the versions and `git checkout identifier` goes back to one (then install and restart as above). If you deploy often, test on a subdomain first. Variables and secrets stay out of the code: **environment variables and secrets**.

 RECOMMENDED

Want a server where you can automate the whole deployment? Have a look at our VPS plans.

 **See the VPS servers** →

 SEE ALSO

Git in cPanel: publishing your site from a repository



Keeping a Node.js app running on a VPS with PM2



Getting a Node.js application running



MozOut Mozambique

RLX Holdings, S.A. · Group RLX Holdings

TAX ID (NUIT)	401 191 607
LEGAL ENTITY NO. (NUEL)	105 045 974
ECONOMIC ACTIVITY CODE (CAE)	62022
REGISTERED OFFICE	Bairro 7 de Setembro Vilankulo 1304 · CEP 0411-02, Inhambane, Mozambique
CONTACT	info@mozout.co.mz · +258 84 635 1111 · +258 86 635 1111 · www.mozout.co.mz
OPENING HOURS	Monday to Friday - 08 AM to 04 PM Saturday & Sunday - Closed



Online version of this document

RLX-MZ-KB-1103 · v2026.10.10 · Generated on 21/10/2026 17:41