

# Website Jail w/ Git Power-up

## Website via git

You created a jail for gitea. Of course you now want to use it to track website changes via git version control. Every `git push` is a push into production, and that's cool! Let's roll with it. The future is now.

Let's pretend you've done some basics. You've got gitea running, and you created a project in gitea called 'website'. You `git` cloned it, and you have `scp`'d the files from your website jail folder to your local computer. You copied them into the repo, and you committed your changes, and you're ready to push your changes, right? Perfect.

Let's get busy on the server...

As root in the host:

```
zfs create -o compress=lz4 -o atime=off zroot/data/prod-website
```

Now we need to create these directories in their `/usr/local/data`, stop the gitea and website jails, update their `fstab` files, and restart the jails. Then make sure to set permissions (owned by git, by readable by anyone).

## First, with the gitea jail

```
bastille console git_jail
```

```
mkdir -p /usr/local/data/prod-website
```

```
exit
```

```
bastille git_jail stop
```

Edit `fstab`

```
/usr/local/data/prod-website /usr/local/bastille/jails/git_jail/root/usr/local/data/prod-website nullfs rw,late 0 0
```

```
bastille start git_jail
```

```
bastille console git_jail
```

```
cd /usr/local/data/prod-website && mkdir -p mydomain.tld && chown git:git mydomain.tld
```

## Before moving along, let's add the git hook.

(This is the magic)

```
cd /usr/local/data/git/git_username/website.git/hooks
```

Edit post-receive to include

```
WEBSITE_FOLDER="/usr/local/data/prod-website/mydomain.tld"  
git --work-tree=$WEBSITE_FOLDER --git-dir=$GIT_DIR checkout -f master
```

Now double check you added those files locally and push to remote.

And it worked.

## Next, with the website jail

```
bastille console website_jail
```

Double check the location of the website. It's at `/usr/local/www/mydomain.tld` ... now...

```
bastille stop website_jail
```

Edit `fstab`

```
/usr/local/data/prod-website/mydomain.tld /usr/local/bastille/jails/website_jail/root/usr/local/www/mydomain.tld  
nullfs rw,late 0 0
```

```
bastille start website_jail
```

If I pop into the jail and run `ll` in `/usr/local/www`, I see that the git user owns the directory now, so it appears it's complete...

But it's not. Nginx is looking too high. Gotta adjust the nginx conf. It needs to dig in another dir (`.../www/mydomain.tld/mydomain.tld`). Maybe I'll decide on a more elegant (less nested) approach

later. For now, it works and is nice.

Then a final `service nginx reload` (preceded by `nginx -t`, if you wanna be extra careful), and we're good.

# Mission Accomplished

That's right. As stated at the top, you can now do development at home, testing on your localhost webserver, and then commit and push your changes whenever you're happy with them.

---

Revision #1

Created 5 August 2020 07:56:46 by scoob

Updated 31 July 2021 04:50:03 by scoob