

Contributing to the Hubzero CMS via GitHub

Step 1 - Create your GitHub account

You will need to create a GitHub account. They're free and that's all you need to get started.

<https://help.github.com/articles/signing-up-for-a-new-github-account/>

Step 2 - Add your SSH public key

- <https://help.github.com/articles/adding-a-new-ssh-key-to-your-github-account/>
- This should be the key on your dev machine located in `~/.ssh/id_rsa.pub` for example.
- You can use HTTPS to push and pull to your repository, however it becomes cumbersome to type your password each time you have to do this operation.

Step 3 - Fork the hubzero/hubzero-cms repository

- Fork this repository under your account:
<https://github.com/hubzero/hubzero-cms>
- For more information: <https://help.github.com/articles/fork-a-repo/>

Step 4 - Clone your repository

- On your dev machine in the web root directory^[1] run:

```
git clone git@github.com:username/hubzero-cms
```

[1] The path may be:

```
/var/www/<hub>
```

or

```
/www/<hub>
```

Step 5 - Add the upstream remote

- Upstream is the original hubzero/hubzero-cms repository. You will receive the latest updates from this remote.
- To add the upstream remote run:
git remote add upstream <https://github.com/hubzero/hubzero-cms>

Step 6 - Update your branches

- Although it's unlikely that upstream changes were introduced since you've just forked your repository, it's a good idea to check for updates.
- This can be accomplished by running:

```
git fetch --all then git merge upstream/<branch>
```

Setting Up on a Development Hub (first time)

<https://asciinema.org/a/2es3o1edkvxetkdztdrd3j5mk>

This video shows developers how to:

1. Clone the repository
2. Move over the app directory, containing configuration files
3. Set the upstream remote

We assume that you have a development hub running already.

Setting Up on a Development Hub (using old repo)

<https://asciinema.org/a/bgbaudn47y9yp501ldqluot1t>

This video shows developers how to:

1. Reassign the origin remote's url to your forked repository.
2. Fetch and merge in latest changes from upstream.
3. Update your remote origin.

We assume that you have a development hub running already.

Making your changes and committing them.

- <https://asciinema.org/a/28dmg2j2sr3p8bwlesqlgwr3g>
 - Uses `git checkout -b <feature-branch-name>` to create a feature branch.
- <https://youtu.be/q2PDjM8885M>