# Contributing to cf-release

The Cloud Foundry team uses GitHub and accepts contributions via

[pull request](https://help.github.com/articles/using-pull-requests).

The `cf-release` repository is a [BOSH](https://github.com/cloudfoundry/bosh)

release for Cloud Foundry.

If you wish to make a change to any of the [components](https://github.com/cloudfoundry/cf-release#cloud-foundry-components-v2),

submit a pull request to those repositories directly. Once accepted those changes

should make their way into `cf-release`. All components are submodules in cf-release

and can be found in the [`src/`](https://github.com/cloudfoundry/cf-release/tree/master/src)

directory.

To learn about how you can contribute to Cloud Foundry please visit our [contributing page](https://www.cloudfoundry.org/contribute/)

## Proposing new Features

Please see the [Proposing New Features](https://github.com/cloudfoundry-community/cf-docs-contrib/wiki/Proposing-New-Features) page on the Cloud Foundry community wiki that explains the process for getting the team's buy-in on your contribution before you start work.

## General Workflow

1. [Collaborate with the team](https://github.com/cloudfoundry-community/cf-docs-contrib/wiki/Proposing-New-Features) before you start work

1. [Fork](https://help.github.com/articles/fork-a-repo) the repository and make a local [clone](https://help.github.com/articles/fork-a-repo#step-2-create-a-local-clone-of-your-fork)

1. Create a feature branch from the development branch

```bash

cd cf-release

git checkout develop

./scripts/update

git checkout -b better\_cf-release

```

1. Build and deploy the checked out version of

[`cf-release`](http://docs.cloudfoundry.org/bosh/create-release.html#dev-release). We recommend using

[bosh-lite](https://github.com/cloudfoundry/bosh-lite) for this.

```bash

cd cf-release

./scripts/generate-bosh-lite-dev-manifest

bosh create release

bosh upload release

bosh deploy

```

1. Make changes on your branch.

1. Update and run [manifest generation tests and other basic tests](spec) `./scripts/test`.

1. [Re-deploy](http://docs.cloudfoundry.org/deploying/) your version of `cf-release`.

1. [Run Cloud Foundry Acceptance Tests (CATS)](https://github.com/cloudfoundry/cf-acceptance-tests). We recommend

running the tests as a bosh errand (`bosh run errand acceptance\_tests`). You won't see any output from the tests

until the errand completes. If you choose to run them manually, please follow the instructions in the

[CATS README](https://github.com/cloudfoundry/cf-acceptance-tests/blob/master/README.md).

1. Set up git hooks by running `./scripts/setup-git-hooks` and commit your work. This will ensure that the same set of tests

as `./scripts/test` run as a pre-commit hook before any commit.

1. Push to your fork (`git push origin better\_cf-release`) and

[submit a pull request](https://help.github.com/articles/creating-a-pull-request)

selecting `develop` as the target branch.

We favor pull requests with very small, single commits with a single purpose.

Your pull request is much more likely to be accepted if:

\* Your pull request includes tests. The runtime development team uses test driven development to help ensure high

quality code and excellent test coverage.

\* Your pull request is small and focused with a clear message that conveys the intent of your change.