



Two Git Repos: 'git_origin' and 'git_cloned'

Learn about the original, clone, and remote repository.

We'll cover the following



- Creating a repository and cloning it
- Similarities and differences
- Remote
 - Origin
- Fetch and push

Creating a repository and cloning it

#

You're going to start by creating a simple Git repository and then clone it:

```
1  mkdir -p lgthw_pull
2  cd lgthw_pull
3  mkdir git_origin
4  cd git_origin
5  git init
6  echo 'first commit' > file1
7  git add file1
8  git commit -am file1
9  cd ..
10 git clone git_origin git_cloned
```

Terminal 1



Terminal





Click to Connect...

Similarities and differences

The two repositories (the folders: `git_origin` and `git_cloned`) contain identical content:

```
11 diff git_origin/file1 git_cloned/file1
```

However, their `.git/config` files differ in instructive ways.

The `git_origin` folder has this in its `.git/config` file:

```
12 cat git_origin/.git/config
```

While the `git_cloned` folder has this in its `.git/config` file:

```
13 cat git_cloned/.git/config
```

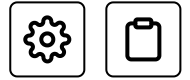
Terminal 1



Terminal



Remote



While the `git_origin` has no visibility of any *remotes*, the cloned one does. The `git_cloned` repository has a remote called “origin.”

Its URL is (in this case) pointed at the directory `git_origin` that is local on the host. URLs can also be an `http://` or `https://` one or even `ssh://` or `git://`. The last is a Git-specific protocol that is rarely seen these days.

When you see a Git repository cloned with `git@` (i.e., `git@github.com:kubernetes/kubernetes`), then this is in fact using the `ssh://` protocol under the hood.

If you go to the `git_cloned` repository and ask it for information about its remotes:

```
14 cd git_cloned
15 git remote
```

You get the name `origin` back.

Terminal 1



Terminal



Origin

The name `origin` is the default name for a remote, but it does not have a special meaning. It could be renamed to `BitBucket` or `GitLab`, for example.

Fetch and push

The above remotes are divided into (`fetch`) and (`push`) actions. These relate to two different actions on remotes, i.e., getting changes from a remote or pushing changes to a remote.

These actions can work against different remotes. For example, the output

of `git remote -v` might be:



```
16 git remote -v
```

Terminal 1



Terminal



But I've never seen an example of these entries being different from one another in the wild.

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The 'git fetch' Command



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