

## Lab: (Command Line) Push to a Remote Repository

Estimated time: 10 minutes

*Note: This lab assumes that you are using a command line. If you would prefer to use Sourcetree, there are separate instructions.*

*Note: This lab assumes that you have created a remote repository named `projectb`. This was done in the previous lab.*

In this lab, you will:

1. Clone your Bitbucket repository.
2. Create a commit in the local repository.
3. Push the commit to the remote repository.

### 1: Clone your Bitbucket repository.

1. Log into bitbucket.org.
2. Navigate to the `projectb` repository. Click the plus sign on the left and select **Clone this repository**.
3. Copy the `git clone` command to your clipboard.
4. In a command line window, navigate to your `repos` directory.
5. **Paste** the `git clone` command that you copied. Execute the command. You have cloned an empty repository.
6. Change to the `projectb` directory using `cd projectb`.
7. View the contents of `projectb` using `ls -a`. You should see an empty working tree and a `.git` directory.
8. Execute `git remote -v`. You should see the URL to your remote repository, and see that the shortcut name of this remote repository is `origin`.

*Congratulations, you have cloned your remote repository.*

### 2: Create a commit in the local repository.

1. Execute `echo "# projectb's README" > README.md` in your `projectb` directory. This creates a README file in your working tree. This content will show on the home page for the repository on Bitbucket.
2. Execute `git add README.md` to add the README file to the staging area.
3. Execute `git commit -m "add README.md"` to commit to the local repository.

*Congratulations, you have created a commit in the local repository.*

### 3: Push the commit to the remote repository.

1. Execute `git push -u origin master`. The `-u` flag sets up the local and remote branches as tracking branches. `origin` is a shortcut name for the remote repository. `master` is the branch to push. We are pushing the default branch named `master`.
2. Execute `git status` and verify that your branch is up to date and there is nothing to commit.

3. In your browser, navigate to Bitbucket. Navigate to your `projectb` repository. Click on the **Source** tab. You should see your commit. You have synchronized your local and remote repositories.

4. Click the README.md link to view the file that you created.

*Congratulations. You have cloned and committed to your remote repository.*

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