



## Basic GIT usage Tutorial

1. Use **git** to place application under version control.
2. Apply the following git configuration commands:
  - `git config --global user.name "John Harkness"`
  - `git config --global user.email email.address@xyz.com`
  - `git config --global push.default matching`
  - `git config --global alias.co checkout`
3. Initialise repository with the following command:
  - `git init`
4. Add files to repository (ignores files in .gitignore file):
  - `git add -A`
5. Commit Changes:
  - `git commit -m "Put Message in here about commit"`
6. Check commit worked using the git log command:
  - `git log`
7. If files are accidentally altered and want to restore to previous commit, use the following command:
  - `git checkout -f`
  - OR
  - `git co -f`
8. Create account on BitBucket (Bitbucket.org).
9. Create a new repository call.




### Get started




#### Bitbucket tutorials

All the information you need to get started.



#### Git tutorials

Guides to workflows and commands, with examples.



#### SourceTree

A free Git & Mercurial client for Windows or Mac.

### Create or import a repository

Thanks for choosing Bitbucket. Start by creating or importing a repository.

Create a repository

 or 

Import an existing repository

## 10. Fill in required Details

### Create a new repository

[Import repository](#)

Repository name\*

helloWorld

Access level

☒ This is a private repository

Repository type

☒ Git

☐ Mercurial

[Advanced settings](#)

Create repository

Cancel

## 11. Add your repository public key for authentication, to this go to:

- Bitbucket Settings -> SSH Keys -> Add Key

Find a repository...

John Harkness  
jmdharkness@hotmail.com

Manage Atlassian account

View profile

Bitbucket settings

Add-ons

Inbox

Invite a friend

Log out

GENERAL

[Account settings](#)

[Email aliases](#)

[Notifications](#)

[Change username](#)

[Delete account](#)

PLANS AND BILLING

[Plan details](#)

ACCESS MANAGEMENT

[User groups](#)

[OAuth](#)

SECURITY

SSH keys

[Two-step verification](#) **NEW**

[Connected accounts](#)

### SSH keys

Use SSH to avoid password prompts when you push code to Bitbucket. Learn how to generate a SSH key.

Add key

Key	Added
There are no keys configured	

- Back in Cloud9, paste the following command into the command prompt:
  - `cat ~/.ssh/id_rsa.pub`
- Paste the returned value into the **Key\*** dialogue box back in BitBucket window and press **Add Key**

### Add SSH key

Label

helloWorld

Key\*

ssh-rsa  
ASDDDDDDDDDSASGADSGGAHSFHFGHJFJGDFJGSJSFHSFGSDGAVXV  
TSOEJWKANEHFUHADFAljpnkfasfdw[ppnfnpoijgpojuugew0231nnlbbi21b  
kjbkvbius9

Already have a key?

Copy [your key](#) to your clipboard

Problems adding a key?

Read our [knowledge base](#) for common issues.

Add key

Cancel

12. In Bitbucket, navigate back to your “helloWorld” Repository and expand out the “I have an existing Project” to reveal required details.


▼ I have an existing project

Already have a Git repository on your computer? Let's push it up to Bitbucket.

```
$ cd /path/to/my/repo
$ git remote add origin https://Jm25@bitbucket.org/Jm25/helloworld.git
$ git push -u origin --all # pushes up the repo and its refs for the first time
$ git push -u origin --tags # pushes up any tags
```

13. After completing the above. In BitBucket, refresh your repository and you should see something similar to the below:

## Overview

 SSH `git@bitbu`

Last updated	5 minutes ago	1 Branch	0 Tags
Language	—	0 Forks	1 Watcher
Access level	Admin		

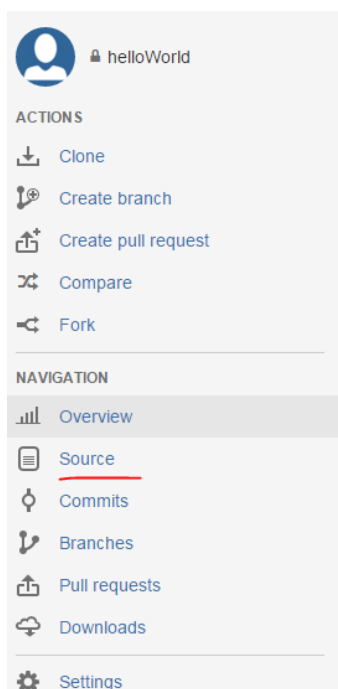


### THERE ISN'T A README YET

Create one and tell people where to start and how to contribute.

[Create a README](#)

On the left hand side, select **Navigation -> Source**



Compare the source folders with that in your Cloud9 project folder. They should be identical.

14. Deploy your application using Heroku (need to create an account first heroku.com)
15. Once an account has been set up and verified, type the following commands in Cloud9 application folder (enter details where required):
  - `heroku login`
  - `heroku keys:add`
  - `heroku create`
16. Edit the Gemfile to the one on Moodle, save changes and make sure to commit them using:
  - `git commit -am "Message here....."`
17. Now we are ready to deploy app to the net, use the following command:
  - `git push heroku master`