2017

Git and Github Guide

Setting up Git on Ubuntu machine and sync with Github

This document contains commands for git setup on Ubuntu and commands to sync with github for beginners

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1. Installation

The *git* version control system is installed with the following command

```
sudo apt  install git
```

2. Configuration

Every git user should first introduce himself to git, by running these two commands:

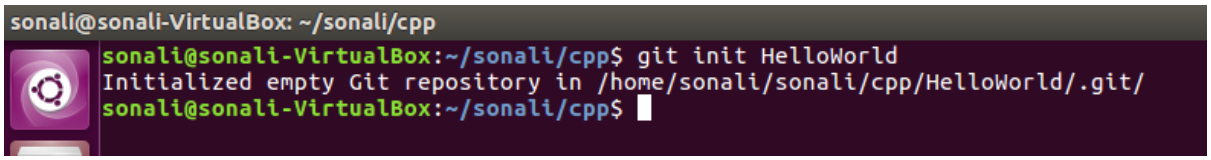
```
git config --global user.email "you@example.com"
git config --global user.name "Your Name""
```

3. Creating a local repository

Create a folder in your system. This will serve as a local repository which will later be pushed onto the GitHub website. Use the following command:

```
git init Repo-Name
```

Example:



4. Creating a README file to describe the repository

Now create a README file and enter some. The README file is generally used to describe what the repository contains or what the project is all about.

```
gedit README
```

You can use any other text editors.

5. Adding repository files to an index

Create HelloWorld.c file and write a sample program.

```
#include<stdio.h>
```

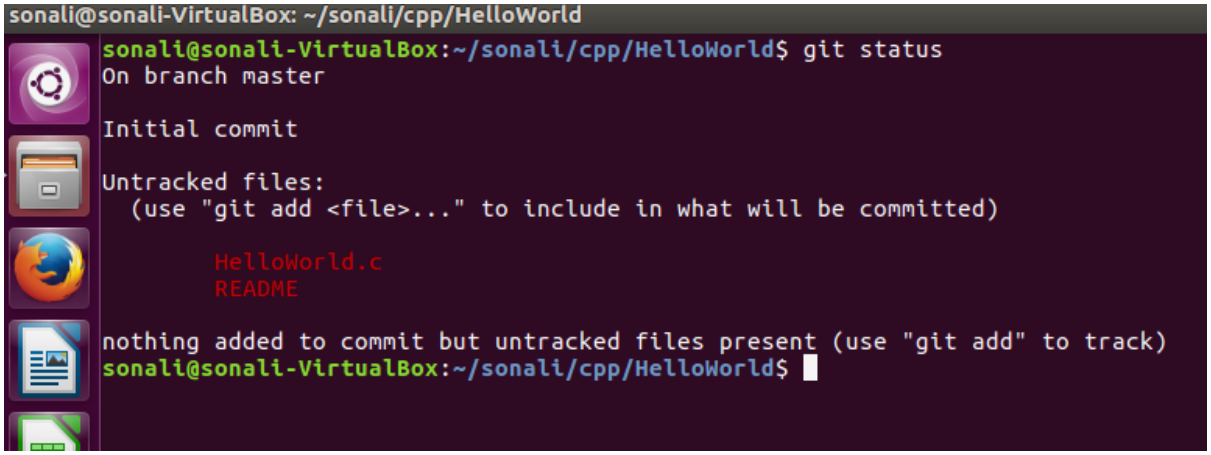
```
void main(){

printf("hello world");

}
```

You can add existing files also.

Check the status.

```
git status
```

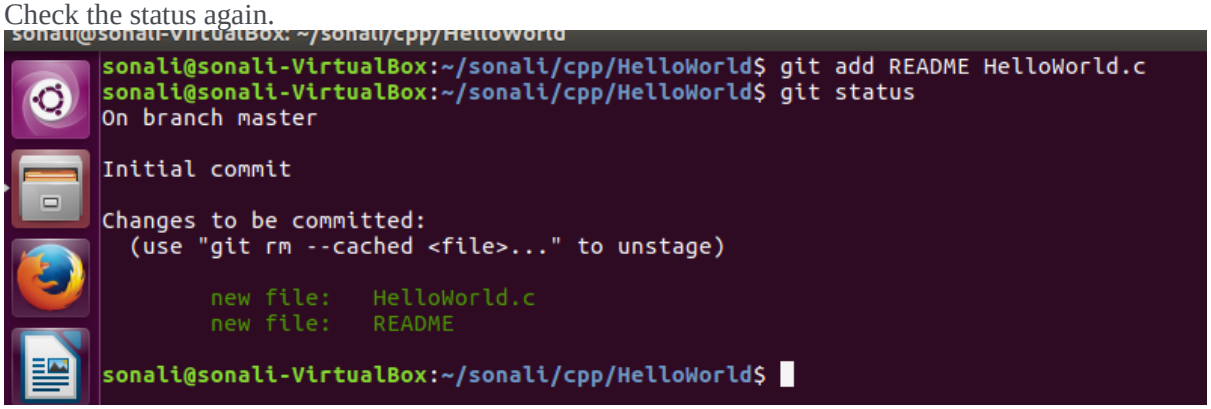
Example:



Add it to the index by using the following commands:

```
git add README

git add HelloWorld.c
```

Check the status again.



Note that the "git add" command can be used to add any number of files and folders to the index.

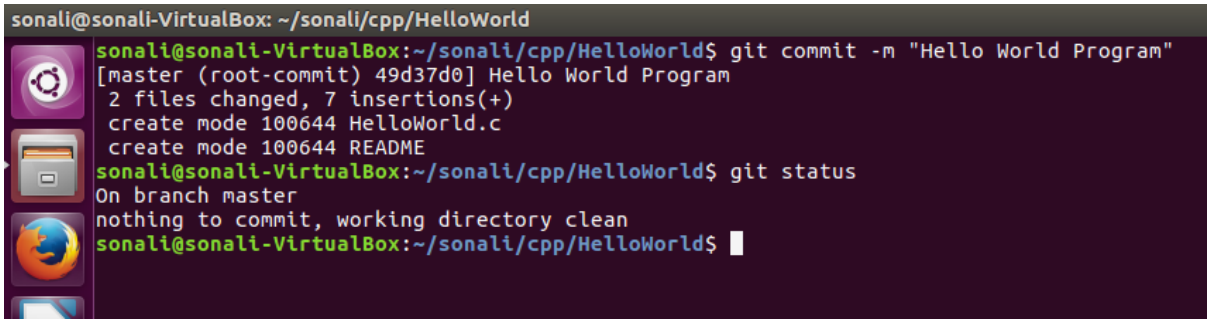
6. Committing changes made to the index

Once all the files are added, we can commit it. This means that we have finalized what additions and/or changes have to be made and they are now ready to be uploaded onto our repository. Use the command :

```
git commit -m "some_message"
```

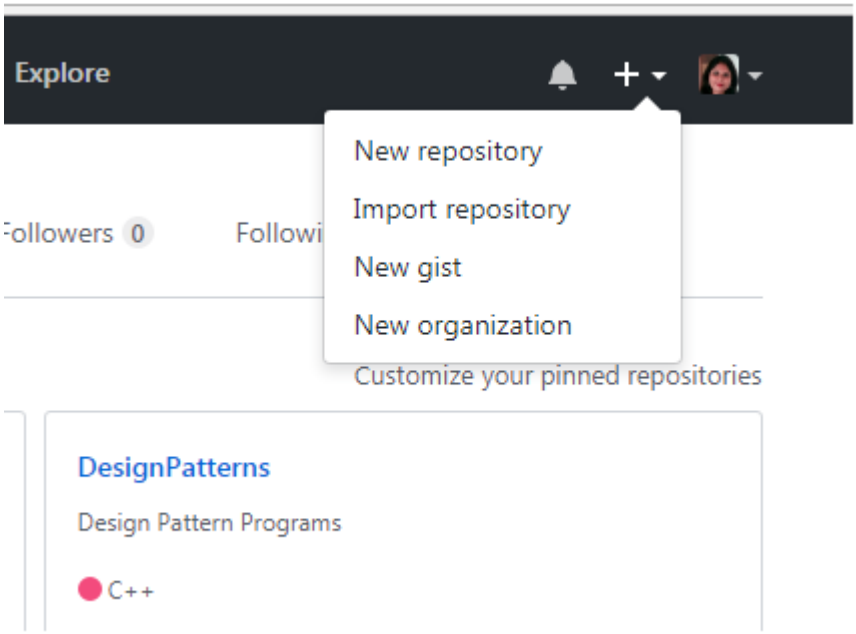
"some_message" in the above command can be any simple message like "my first commit" or "hello world program", etc.

Example:

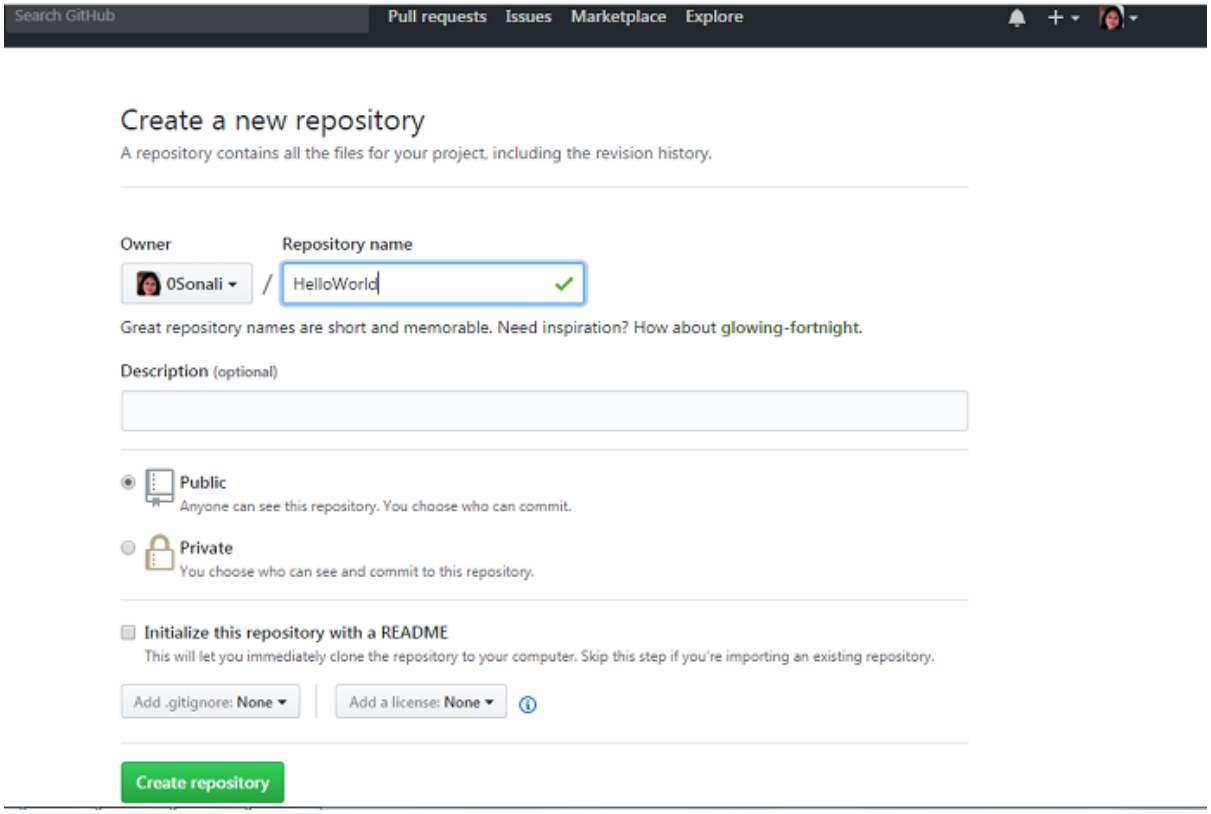


7. Creating a repository on GitHub

Create account on github.com and create new repository.



Provide name for repository same as one created on Ubuntu system.



8. Connect to the repository on Github

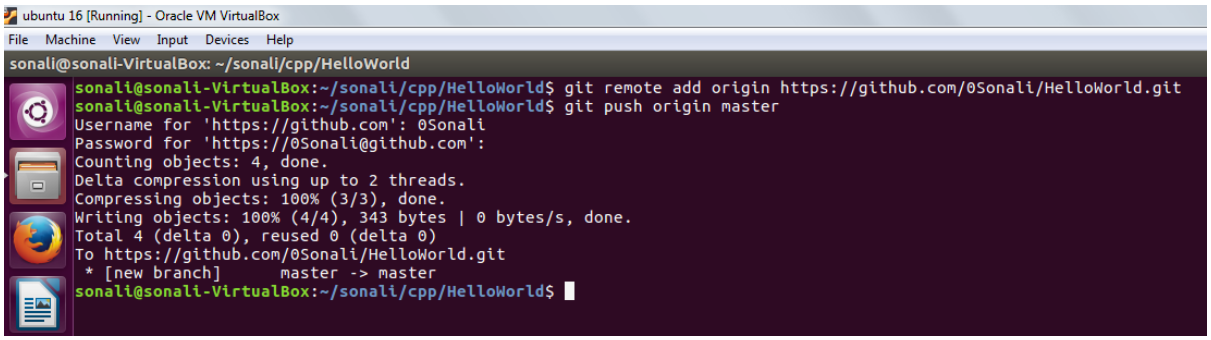
```
git remote add origin https://github.com/user_name/HelloWorld.git
```

9. Pushing files in local repository to GitHub repository

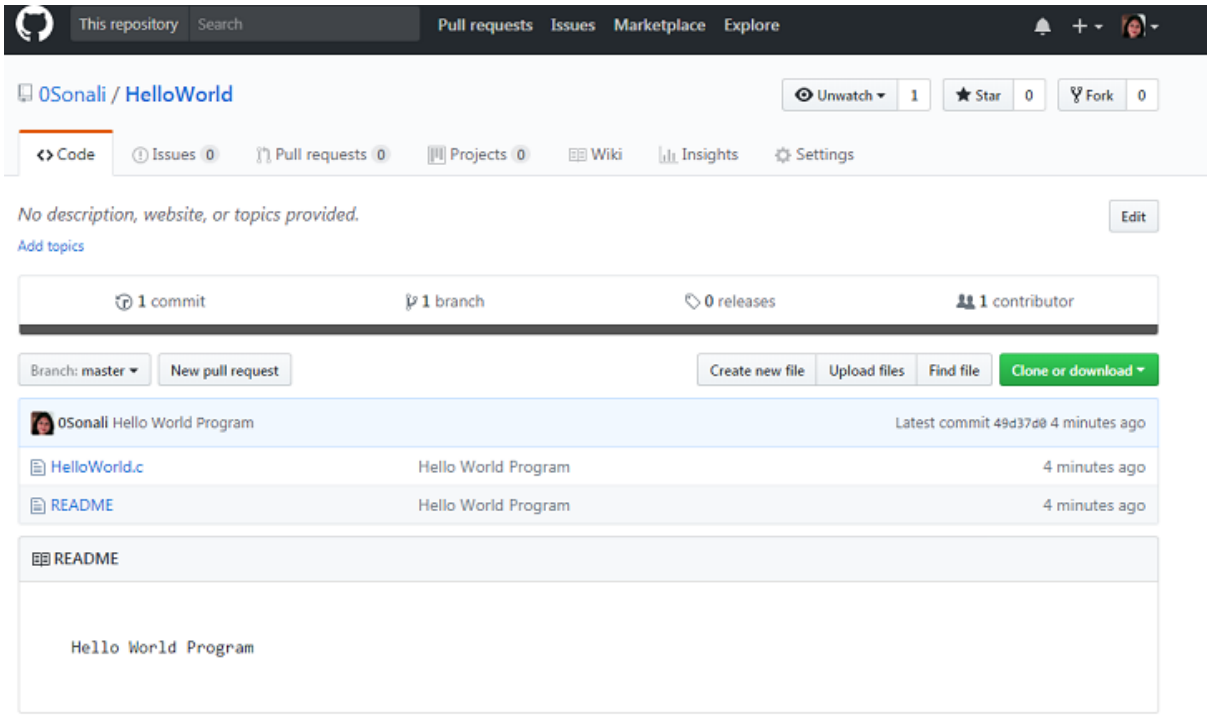
The final step is to push the local repository contents into the remote host repository (GitHub

```
git push origin master
```

Example:



Check the repository on github.


This repository
Search
Pull requests
Issues
Marketplace
Explore
0Sonali / HelloWorld
Unwatch 1
Star 0
Fork 0
Code
Issues 0
Pull requests 0
Projects 0
Wiki
Insights
Settings
No description, website, or topics provided.
Add topics
Edit
1 commit
1 branch
0 releases
1 contributor
Branch: master
New pull request
Create new file
Upload files
Find file
Clone or download
0Sonali Hello World Program
Latest commit 49d37d0 4 minutes ago
HelloWorld.c
Hello World Program
4 minutes ago
README
Hello World Program
4 minutes ago
README
Hello World Program