Setting Up Git on a server to push to GitHub

Made by Nole Stites - 6/17/25 For the SGX3 Coding Institute 2025

Step 1: Create an empty directory for the repo on the server

```
$ mkdir [name]
```

Step 2: Enter directory and initialize it as a Git repo

```
$ cd [dir_name]
$ git init .
```

(You should now see a ".git" subdirectory)

Step 3: Create a README file

```
$ vim README.md
```

Step 4: Stage the README file to Git

```
$ git add README.md
$ git status
```

Step 5: Commit the staged files with a message

```
$ git commit -m "Initialized repo"
```

(*Notice the error "Author identity unknown")

Step 6: Identify to Git who we are

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

Step 7: Attempt to commit the staged files again

```
$ git commit -m "Initialized repo"
```

Step 8: Create an empty repo in the GitHub web UI

(go to your GitHub account on the web)

Step 9: Attach the new repo on the web to the repo you made locally

```
$ git remote add origin [repo URL]
```

(Note: you find the URL on the GitHub website after making the repo; USE THE .git URL for SSH)

Step 10: Push the changes to the remote repo

```
$ git push origin master
```

(*Notice the error "Support for password authentication was removed")

=== Set up an SSH key for GitHub ===

Step 11: Generate a new key in your terminal

```
$ ssh-keygen -t ed25519 -C "your_email@example.com"
```

Step 2: Add your SSH key to the ssh-agent

```
$ eval "$(ssh-agent -s)"
$ ssh-add ~/.ssh/id_ed25519
```

Step 12: Copy SSH key to be added to GitHub

```
$ cat ~/.ssh/id_ed25519.pub
```

Step 4: Add SSH key into GitHub (settings)

…

Step 13: test connection in terminal

```
$ ssh -T git@github.com
```