Git

1. what it is

- it is an application allowing you to track you programming progress like who made which changes when

2. how it helps you

- from the perspective of a leader:

+ how to lead: communication skills, time management….

+ how to find problems

+ how to fix problems

- from the perspective of a team member:

+ how to follow leaders: teamwork, discuss…

+ focus on your own work and nothing else

2. what is github?

This is a website that allows other people to follow, work with you or just copy everything you did

3. how to use github

- repository: a folder to keep your files and everything (this is a project)

- after creating a new repo: you need to setup certain things

+ README.md: a markdown file that is like an introduction

+ git.ignore: a file of things you don’t want people to know (like sensitive information)

+ license: a contract about what can people do with your repo

* A few options:

+ set up in Desktop: download git to your windows -> easy but not cool

+ https: difficult for most people to use

+ ssh: cool and easy to use

* Create a new file
* Write anything you want in that file
* A few command:
  + Git add .: hey teacher: I am doing this now (. means everything)
  + Git commit -m “anything you want to say”: hey teacher, I am done
  + Git push: give your homework to your teacher
  + Git pull: download the homework questions

4. example of using git with linux

ssh-add -L

The agent has no identities.

┌──(kali㉿kali)-[~/Desktop]

└─$ ssh-keygen -t ed25519 -C "baohaph29@gmail.com"

Generating public/private ed25519 key pair.

Enter file in which to save the key (/home/kali/.ssh/id\_ed25519):

/home/kali/.ssh/id\_ed25519 already exists.

Overwrite (y/n)? y

Enter passphrase for "/home/kali/.ssh/id\_ed25519" (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /home/kali/.ssh/id\_ed25519

Your public key has been saved in /home/kali/.ssh/id\_ed25519.pub

The key fingerprint is:

SHA256:Ajvrbl5p+NEVYGYoEw4RRKv/XEKDEqEvRkRP5bAl1+E baohaph29@gmail.com

The key's randomart image is:

+--[ED25519 256]--+

|o=\*\*o=.o\* |

|o.o+X o= . |

|o..oo+ E . |

|.+ . o . |

|+.o = . S . |

|.+ . = + . |

| . + \* . |

| +.\* . |

| +\* . |

+----[SHA256]-----+

┌──(kali㉿kali)-[~/Desktop]

└─$ ssh-add -L

The agent has no identities.

┌──(kali㉿kali)-[~/Desktop]

└─$ cd ../.ssh

┌──(kali㉿kali)-[~/.ssh]

└─$ ls

id\_ed25519 id\_ed25519.pub known\_hosts known\_hosts.old

┌──(kali㉿kali)-[~/.ssh]

└─$ ssh-add id\_ed25519

Enter passphrase for id\_ed25519:

Identity added: id\_ed25519 (baohaph29@gmail.com)

┌──(kali㉿kali)-[~/.ssh]

└─$ ssh-add -L

ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIK+KUesWqd55pAT+yUgUUNTm39xG4QXFUEBxT4Ph+DAL baohaph29@gmail.com

┌──(kali㉿kali)-[~/.ssh]

└─$ git config --global user.email "baohaph29@gmail.com"

┌──(kali㉿kali)-[~/.ssh]

└─$ git config --global user.name "Hanthaibinh"

cd ../Desktop

┌──(kali㉿kali)-[~/Desktop]

└─$ git clone git@github.com:Hanthaibinh/ietls.git

Cloning into 'ietls'...

remote: Enumerating objects: 12, done.

remote: Counting objects: 100% (12/12), done.

remote: Compressing objects: 100% (7/7), done.

remote: Total 12 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)

Receiving objects: 100% (12/12), done.

Resolving deltas: 100% (1/1), done.

┌──(kali㉿kali)-[~/Desktop]

└─$ ls

app evasion.txt evilportals HanPham ietls osint terminator.desktop wpine.txt

┌──(kali㉿kali)-[~/Desktop]

└─$ cd ietls

┌──(kali㉿kali)-[~/Desktop/ietls]

└─$ ls

ielts 'lesson 1'

┌──(kali㉿kali)-[~/Desktop/ietls]

└─$ nano lesson\ 1

┌──(kali㉿kali)-[~/Desktop/ietls]

└─$ git add .

┌──(kali㉿kali)-[~/Desktop/ietls]

└─$ git commit -m "done with lesson 1 homework"

[main adf1971] done with lesson 1 homework

1 file changed, 2 insertions(+)

┌──(kali㉿kali)-[~/Desktop/ietls]

└─$ git push

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 6 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 363 bytes | 363.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To github.com:Hanthaibinh/ietls.git

6b555c9..adf1971 main -> main