



Opening Ceremony

Ethical HACKING 101

by Nathan Hailu

2016 e.c

WHO AM I?

- Name: Nathan Hailu
- Self-inspired hacker | ctf-player | Youtuber | Friend | I love jokes and funny things.
 - "A Day without laughter is A Day Wasted"
- I don't have a degree, but i have Great skill and Certifications from(INSAs,online courses), i am Microlink IT College Student
- I Have Got Chances to be train at INSA's Summer Camp program(2013).
- Currently, I Work at INSA as Incident Responder. I have also hacked many gov sites also private company's website("WITH PERMISSION").
- I have participated a lot of hacking events and i have meet a lot of hackers.-> follow me on social medias {[ig](#),[twitter](#)..} with @h_nathan26
- Currently am fan of Call of Duty mobile
- It is almost 6 or 7 years since i started my hacking journey. But i will show you the right path.

So you will be with me on this class and on the cyber security Season.



What we will learn in this course

- Season 1
 - Introduction to Ethical hacking(1)
 - Linux (5)
 - Python (3)
 - Bash (2)
 - Networking (1)
- Season 2
 - Footprinting and recon
 - Scanning Network
 - Malware threats
 - Social Engineering(Social Media hacking)

The Fundamental Class will Give you basics of How Computer Programs work and will introduce you to computing

Cont...

- Steganography & Cryptography
- Sniffing
- System Hacking(Phone, Computer, Server hacking , reverse shell)
- DOS/DDOS + DARK WEB
- Hacking Websites
- Hacking Wireless Networks { WIFI and ETHERNET hacking}
- CTF
- BUG BOUNTY HUNTING & What you have to Do next?

> There will be 5 Individual Assignments(with total 25pts) and 1 group assignment(10pts) and 2 Exams(15pts and 50pts) - Total will be 100pts , if you want to get the "Course Completion Certificate" you have to get 60 pts above also pass the exam.

RULEs: we have **attendance** so you have to get class before 2:30 after that you can't join the link won't work. The attendance will be taken at the end of the class. You have to have 70% attendance, else you lose another 20pts.

What you have to know { DON'T EXPECT THIS }

1. You DON'T #HACK Because you know hacking

BE ETHICAL

And Hacking is more than hacking
someone's facebook or telegram account

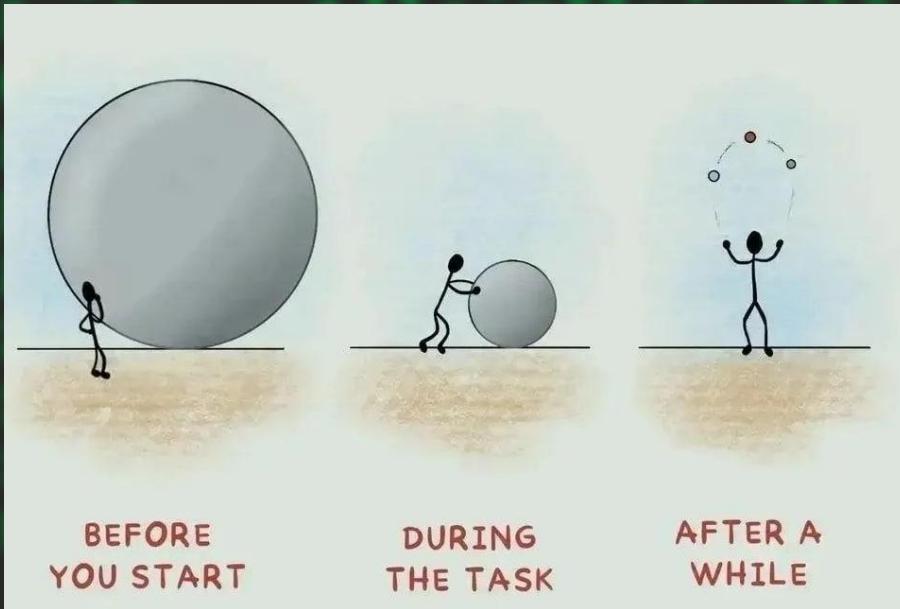
What you have to know { DON'T EXPECT THIS }

2. You don't be hacker in 1 night or with This Class only!



What you have to know { DON'T EXPECT THIS }

3. አዲዲሽ የገዢታኑ ለመማር አተፍሩ.



JUST DO IT.

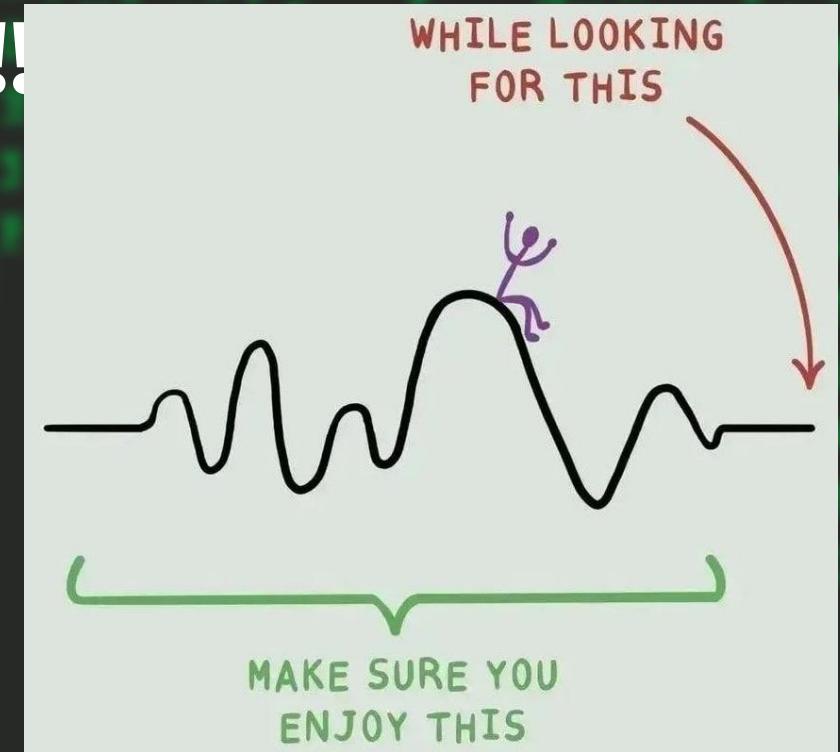
What you have to know { DON'T EXPECT THIS }

4. Try to simplify everything don't make them hard.



What you have to know { DON'T EXPECT THIS }

5. ԱՆՊ ՃԻՇ ՔԱՐՄ!!!



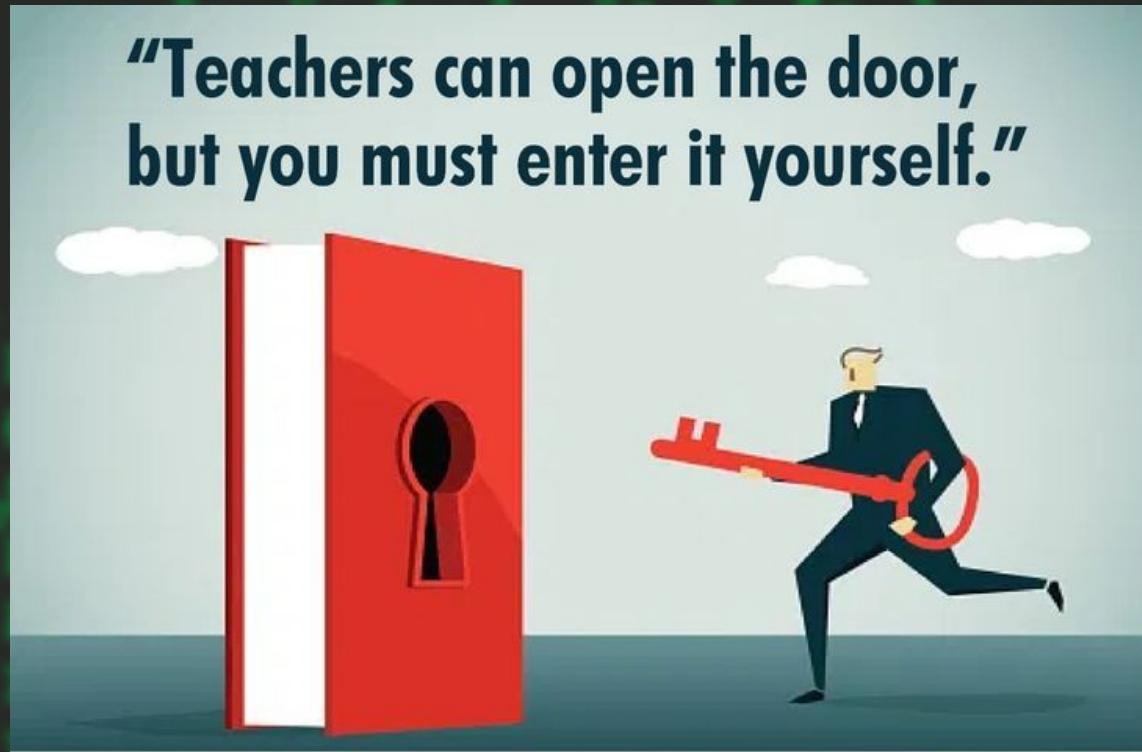
What you have to know { DON'T EXPECT THIS }

6. Thing that seems useless have purpose!!!

**Detail
Later**



What you have to know { DON'T EXPECT THIS }



**“Teachers can open the door,
but you must enter it yourself.”**

What i will promise you...

- ★ If you followed us on each step,
- ★ if you asked what you didn't get,
- ★ if you do the exercises and you actively participate on the course then
 - you will be a good hacked after the 2 month course ends.



የሚያስፈልግ ነት...

- **PASSION**
- **Discipline not #MOTIVATION**
- **Curiosity**
- **Hackers mindset**
- **Computer**
- **Internet**
- **Effective note-keeping**

We Will learn Lot of
new things in 1 day

*806*091123232*10#

*806*093321321*-10#

- for this let me introduce you the next technology

GIT & GITHUB

- Git is a version control system or tool. Simply, a system to manage your files.
- Saves the file locally or remote server(github/gitlab)
- Made by the linux development community



GIT & GITHUB

- GitHub is a Web site/server which your git is hosted on.
- Your files will be saved in folder called
“REPOSITORY”.



Product ▾ Solutions ▾ Open Source ▾ Pricing

Search GitHub

Sign in Sign up



Let's build from here

Harnessed for productivity. Designed for collaboration.
Celebrated for built-in security. Welcome to the platform
developers love.



Email address

Sign up for GitHub

Start a free enterprise trial >

Trusted by the world's leading organizations

Url: www.github.com

The screenshot shows the official website for Git for Windows. At the top left is the logo 'git for windows' with 'VERSION 2.38.1' below it. At the top right are links for 'FAQ', 'REPOSITORY', and 'MAILING LIST'. A large orange diamond icon with a white branching line graphic is centered above the main text. The main headline reads 'We bring the awesome Git SCM to Windows'. Below the headline are two blue buttons: 'Download' and 'Contribute'. A large blue banner below the headline is titled 'Tools & Features'. Underneath this banner, there is a section about Git for Windows's focus on providing a lightweight, native set of tools for Windows users. Another section, 'Git BASH', describes the BASH emulation provided for running Git from the command line. To the right of the 'Tools & Features' banner, there is a screenshot of a Windows terminal window showing a command-line interface.

git for windows

VERSION 2.38.1

We bring the awesome
Git SCM to Windows

Download Contribute

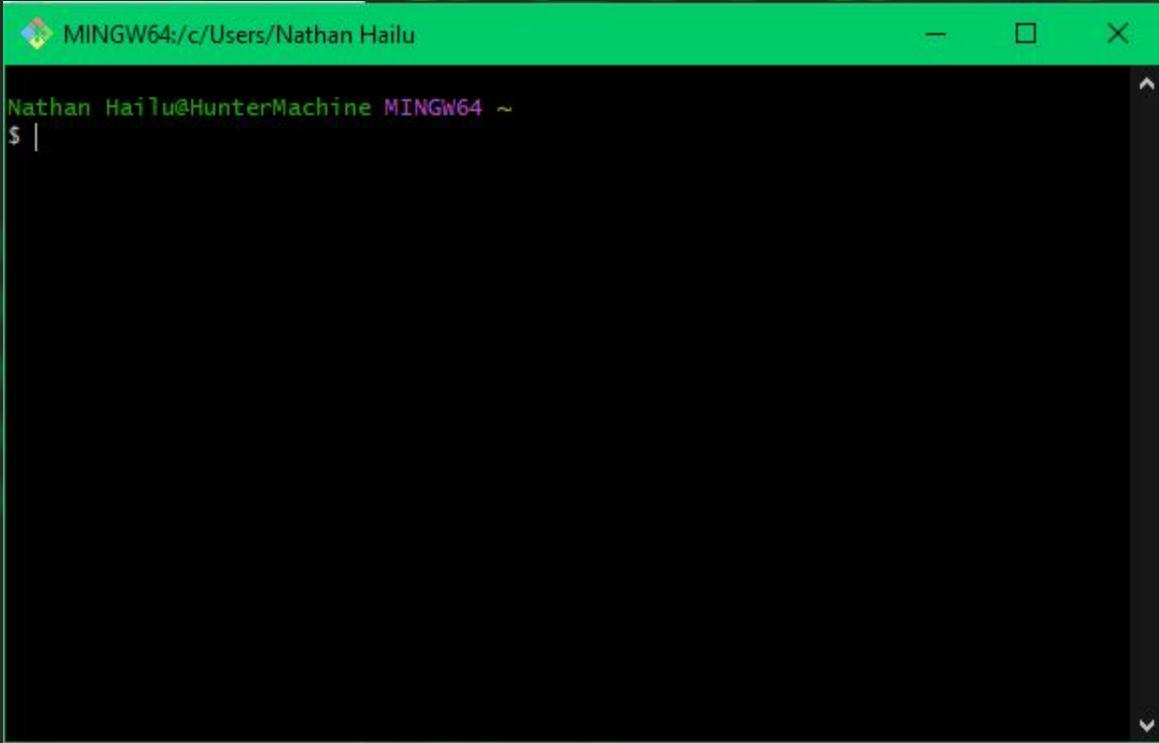
Tools & Features

Git for Windows focuses on offering a lightweight, native set of tools that bring the full feature set of the Git SCM to Windows while providing appropriate user interfaces for experienced Git users and novices alike.

Git BASH

Git for Windows provides a BASH emulation used to run Git from the command line. *NIX users should feel right at home, as the BASH emulation behaves just like the "git" command in LINUX and UNIX environments.

Download Git for windows
Url: <https://gitforwindows.org/>



MINGW64:/c/Users/Nathan Hailu

Nathan Hailu@HunterMachine MINGW64 ~

\$ |

Git commands



- # For FIRST TIME
 - cd Desktop
 - mkdir gtst && cd gtst
 - git init
 - git config --global user.name <Your username>
 - git config --global user.email <Youremail>
- # FOR NORMAL WORKS
 - git status
 - git add .
 - git commit -m '<Your Comment>' #you can check it now
 - git log
- # FOR GITHUB
 - git remote add origin <repositoryURL>
 - git push -u origin master
 - git clone <your project link>

Method #1

MINGW64:/c/Users/Nathan Hailu/Desktop/gtst



Nathan Hailu@HunterMachine MINGW64 ~

\$ cd Desktop/

Nathan Hailu@HunterMachine MINGW64 ~/Desktop

\$ mkdir gtst && cd gtst

Nathan Hailu@HunterMachine MINGW64 ~/Desktop/gtst

\$ git init

Initialized empty Git repository in C:/Users/Nathan Hailu/Desktop/gtst/.git/

First Time

Nathan Hailu@HunterMachine MINGW64 ~/Desktop/gtst (master)

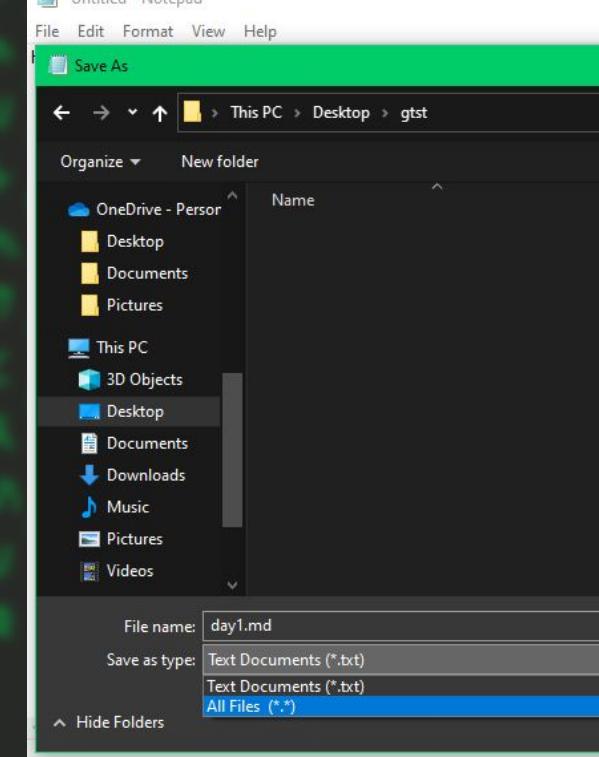
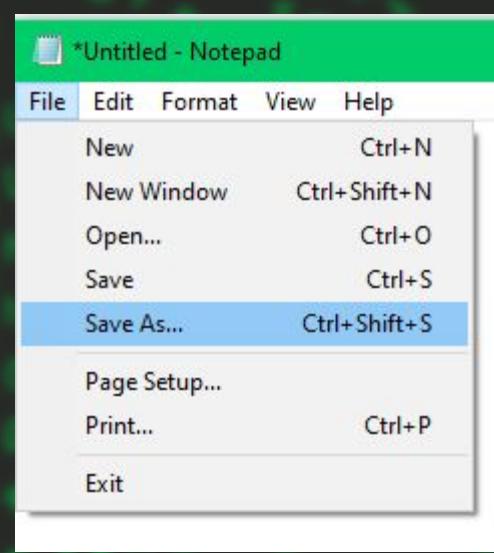
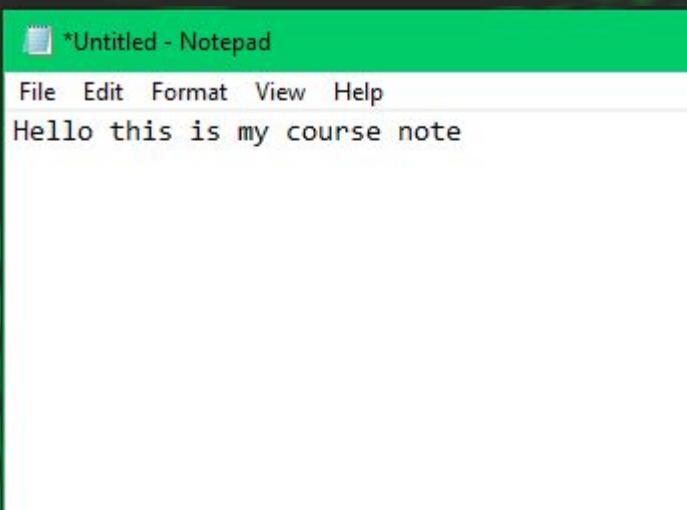
\$ git config --global user.name geeztech0

Nathan Hailu@HunterMachine MINGW64 ~/Desktop/gtst (master)

\$ git config --global user.email tech10geez@gmail.com

Nathan Hailu@HunterMachine MINGW64 ~/Desktop/gtst (master)

\$



Step 1: Create note

Step 2: Check the status

git commit will show you if any change have taken place in this repository.

```
Nathan Hailu@HunterMachine MINGW64 ~/Desktop/gtst (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    d)
      day1.md

nothing added to commit but untracked files present (use "git
add" to track)
```

Step 3: commit it

git add will get all the changes

git commit -m 'your comment' will save the new changes

```
Nathan Hailu@HunterMachine MINGW64 ~/Desktop/gtst (master)
$ git add .
```

```
Nathan Hailu@HunterMachine MINGW64 ~/Desktop/gtst (master)
$ git commit -m 'First time commit'
[master (root-commit) a90423f] First time commit
 1 file changed, 1 insertion(+)
 create mode 100644 day1.md
```

```
Nathan Hailu@HunterMachine MINGW64 ~/Desktop/gtst (master)
$ git status
On branch master
nothing to commit, working tree clean
```

git log will show you any commit done at any time with the user who have committed it.

```
Nathan Hailu@HunterMachine MINGW64 ~/Desktop/gtst (master)
$ git log
commit a90423f82993a0077898eb76f2960d4d3e1cc325 (HEAD -> master)
Author: geeztech0 <tech10geez@gmail.com>
Date:   Tue Mar 14 12:41:10 2023 +0300

    First time commit
```

The screenshot shows the GitHub dashboard on the left and the process of creating a new repository on the right.

GitHub Dashboard (Left):

- Top Repositories
- New (button circled in red)
- Find a repository...
- rxder26 Web-Academy
- rxder26/RexBank
- rxder26/GIST
- rxder26/RexShop
- rxder26/Covid19Bot

Create a new repository (Right):

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Owner: geeztech (dropdown menu circled in red)

Repository name: GTSTv1_Course (highlighted with a red arrow)

Description (optional): This is GTST Course Notes (highlighted with a red arrow)

Visibility Options:

- Public: Anyone on the internet can see this repository. You choose who can commit.
- Private: You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

Add a README file: This is where you can write a long description for your project. [Learn more](#).

Add .gitignore: Choose which files not to track from a list of templates. [Learn more](#).
.gitignore template: None

Choose a license:

A license tells others what they can and can't do with your code. [Learn more](#).

License: None

Information:

You are creating a public repository in your personal account.

Create repository (button highlighted with an orange border)

Text Overlay: STEP 4: Create repository on github

Quick setup — if you've done this kind of thing before

 Set up in Desktop

or

HTTPS

SSH

https://github.com/geeztech0/GTSTv1_Course.git



Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# GTSTv1_Course" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/geeztech0/GTSTv1_Course.git
git push -u origin main
```



...or push an existing repository from the command line

```
git remote add origin https://github.com/geeztech0/GTSTv1_Course.git
git branch -M main
git push -u origin main
```



...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

[Import code](#)

 **ProTip!** Use the URL for this page when adding GitHub as a remote.

STEP 5: add the repo link

```
Nathan.Hailu@HunterMachine MINGW64 ~/Desktop/gtst (master)
$ git remote add origin https://github.com/geeztech0/GTSTv1_Course.git
```

Signed in as geeztech0

[Set status](#)

Your profile

- [Your repositories](#)
- [Your projects](#)
- [Your stars](#)
- [Your gists](#)
- [Your sponsors](#)

Upgrade

[Try Enterprise](#)

[Feature preview](#)

[Help](#)

Settings

[Sign out](#)

- [Billing and plans](#)
- [Emails](#)
- [Password and authentication](#)
- [Sessions](#)
- [SSH and GPG keys](#)
- [Organizations](#)
- [Moderation](#)

Code, planning, and automation

- [Repositories](#)
- [Codespaces](#)
- [Packages](#)
- [Copilot](#)
- [Pages](#)
- [Saved replies](#)

Security

- [Code security and analysis](#)

Integrations

- [Applications](#)
- [Scheduled reminders](#)

Archives

- [Security log](#)
- [Sponsorship log](#)
- [Developer settings](#)

Select a primary email to display

You have set your email address to private. To toggle email privacy, go to [email settings](#) and uncheck "Keep my email address private."

Bio

Tell us a little bit about yourself

You can @mention other users and organizations to link to them.

Pronouns

Don't specify

URL

Social accounts

- [Link to social profile](#)

Company

You can @mention your company's GitHub organization to link it.

Location

Display current local time

Other users will see the time difference from their local time.

All of the fields on this page are optional and can be deleted at any time, and by filling them out, you're giving us consent to share this data wherever your user profile appears. Please see our [privacy statement](#) to learn more about how we use this information.

[Update profile](#)

STEP 6: Generate token

by Nathan Hailu

 GitHub Apps

 OAuth Apps

 Personal access tokens

Fine-grained tokens Beta

Tokens (classic)

Personal access tokens (classic)

[Generate new token ▾](#)

Need an API token for scripts or testing? Generate a personal access token f

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used to [authenticate to the API over Basic Authentication](#).

[Generate new token Beta](#)

Fine-grained, repo-scoped

[Generate new token \(classic\)](#)

For general use



© 2023 GitHub, Inc.

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[Security](#)

[Status](#)

[Docs](#)

[Contact GitHub](#)

[Pricing](#)

[API](#)

[Training](#)

[Blog](#)

[About](#)



Confirm access

Password

.....

[Forgot password?](#)

Confirm

Tip: You are entering **sudo mode**. After you've performed a sudo-protected action, you'll only be asked to re-authenticate again after a few hours of inactivity.

[Terms](#) [Privacy](#) [Security](#) [Contact GitHub](#)

Settings / Developer settings

[GitHub Apps](#)

[OAuth Apps](#)

[Personal access tokens](#)

Fine-grained tokens

Beta

Tokens (classic)

New personal access token (classic)

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Note

GTST

What's this token for?

Expiration *

90 days

The token will expire on Mon, Jun 12 2023

Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes](#).

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> repostatus	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo_invite	Access repository invitations
<input checked="" type="checkbox"/> security_events	Read and write security events
<input checked="" type="checkbox"/> workflow	Update GitHub Action workflows
<input checked="" type="checkbox"/> write:packages	Upload packages to GitHub Package Registry
<input checked="" type="checkbox"/> read:packages	Download packages from GitHub Package Registry
<input checked="" type="checkbox"/> delete:packages	Delete packages from GitHub Package Registry
<input checked="" type="checkbox"/> admin:org	Full control of orgs and teams, read and write org projects
<input checked="" type="checkbox"/> write:org	Read and write org and team membership, read and write org projects
<input checked="" type="checkbox"/> read:org	Read org and team membership, read org projects
<input checked="" type="checkbox"/> manage_runners:org	Manage org runners and runner groups

write:ssh_signing_key

Write pul

read:ssh_signing_key

Read put

Generate token

Cancel

Copy it and save the token somewhere, you will need it next time. Don't lose it.
(in case you lose it you will repeat this process)

Personal access tokens (classic)

Generate new token ▾

Revoke all

Tokens you have generated that can be used to access the GitHub API.

Make sure to copy your personal access token now. You won't be able to see it again!

✓ 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 

Delete

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

STEP 7: Push it to github

- Add your username on username
- Add the token you copied on the password field

```
└ git push -u origin master
Username for 'https://github.com': geeztech0
Password for 'https://geeztech0@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 217 bytes | 217.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/geeztech0/GTSTv1_Course.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```

```
Nathan Hailu@HunterMachine MINGW64 ~/Desktop/gtst (main)
$ git push origin main
fatal: unable to access 'https://github.com/geeztech0/GTSTv1_Course.git/': Could not resolve host: github.com
```

A screenshot of a GitHub repository page. The repository name is **GTSTv1_Course**, described as **Public**. The description states **This is GTST Course Notes**. The repository was updated **1 minute ago**. The main navigation bar includes **Type**, **Language**, **Sort**, and a **New** button. Below the repository details, it shows **master** branch, **1 branch**, and **0 tags**. There are buttons for **Go to file**, **Add file**, and **Code**. A commit history lists a single commit from user **geeztech0** titled **First commit**, made on **0ed1911** **11 minutes ago**, with **1 commit**. A file named **day1.md** is listed under the commit. At the bottom, there's a call to action to **Add a README**.

Find a repository...

Type ▾ Language ▾ Sort ▾ New

GTSTv1_Course Public

This is GTST Course Notes

Updated 1 minute ago

Star ▾

master ▾ 1 branch 0 tags Go to file Add file ▾ Code ▾

geeztech0 First commit 0ed1911 11 minutes ago 1 commit

day1.md First commit 11 minutes ago

Help people interested in this repository understand your project by adding a README.

Add a README

- On another day(day2,day3...)
- You just do the following.

Don't be confused with the color i
just used another kind of git bash

```
git add .
git commit -m "Second Commit🔥"
[master c938d95] Second Commit🔥
 1 file changed, 1 insertion(+)
 create mode 100644 day2.md
git push -u origin master
Username for 'https://github.com': geeztech0
Password for 'https://geeztech0@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 283 bytes | 283.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/geeztech0/GTSTv1_Course.git
 0ed1911..c938d95 master -> master
branch 'master' set up to track 'origin/master'.
```

 master ▾

 1 branch

 0 tags

[Go to file](#)

[Add file ▾](#)

[Code ▾](#)



geeztech0 Second Commit 🔥

c938d95 2 minutes ago

 2 commits

 day1.md

First commit

16 minutes ago

 day2.md

Second Commit 🔥

2 minutes ago

Help people interested in this repository understand your project by adding a README.

[Add a README](#)

You See

Another Software you can use to write Markdown

- You can Use Software called “OBSIDIAN” To do markdowns and take your notes in a beautiful environment.

Link:

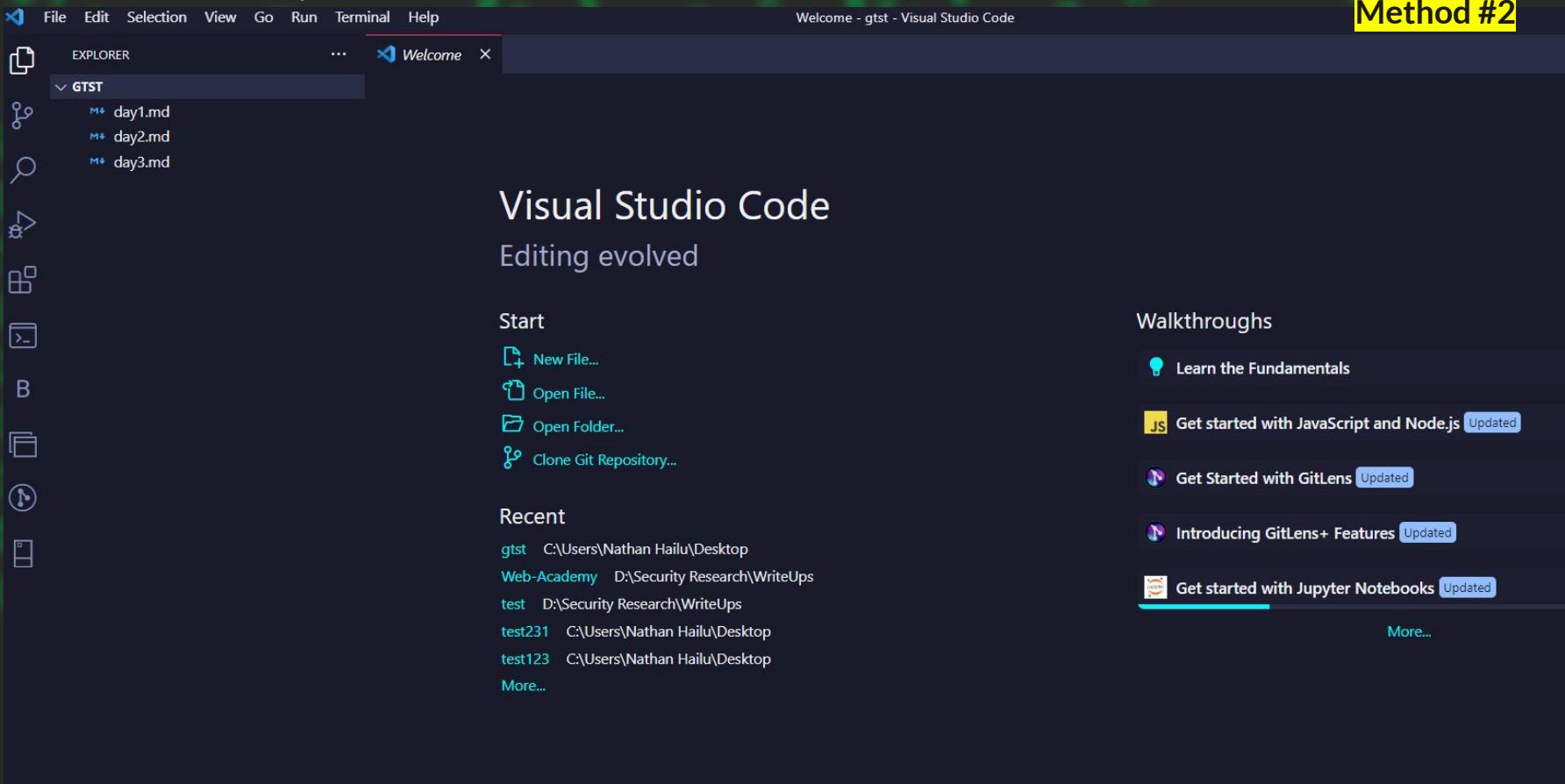
<https://obsidian.md/>

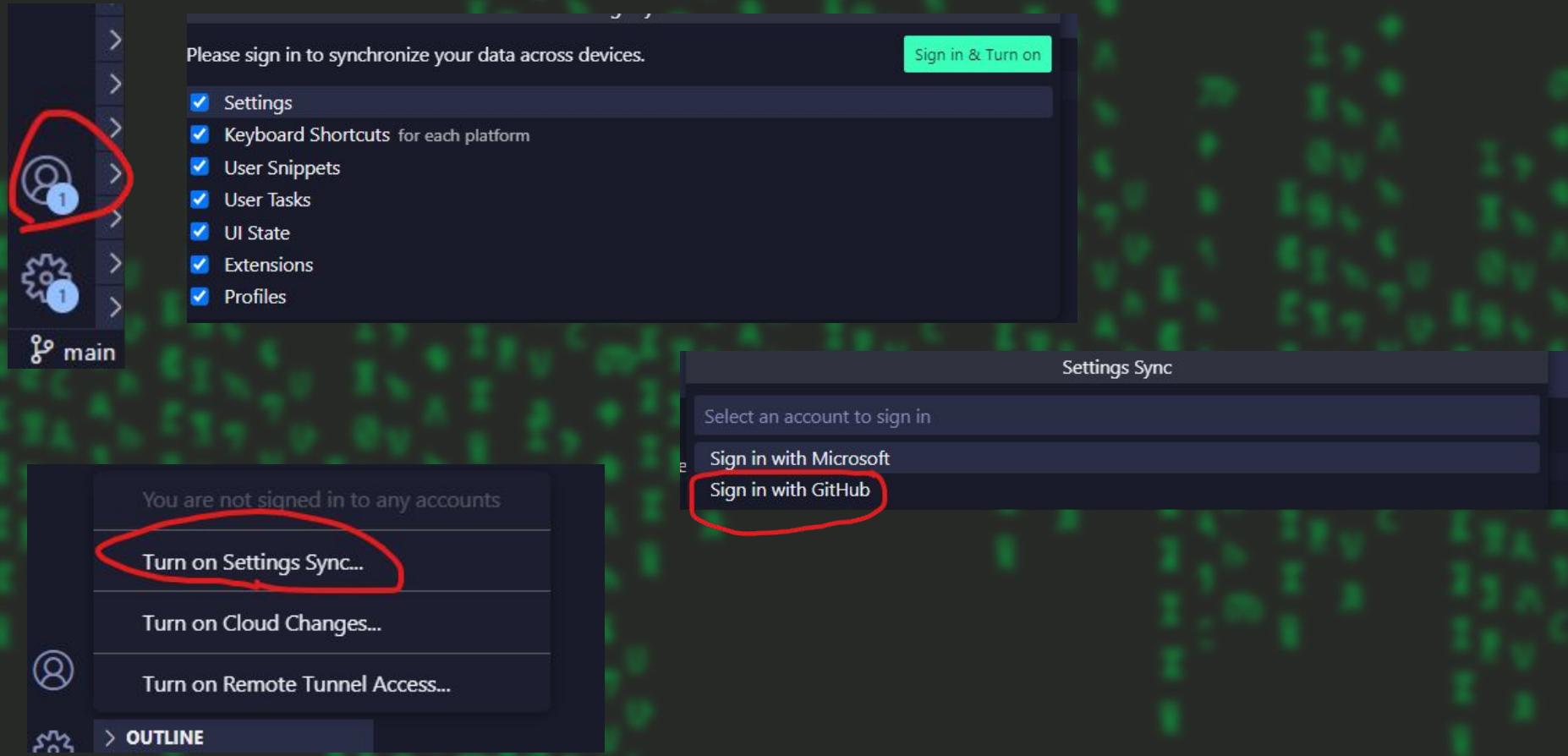
- You will write on this and you will use methods to push it to github.

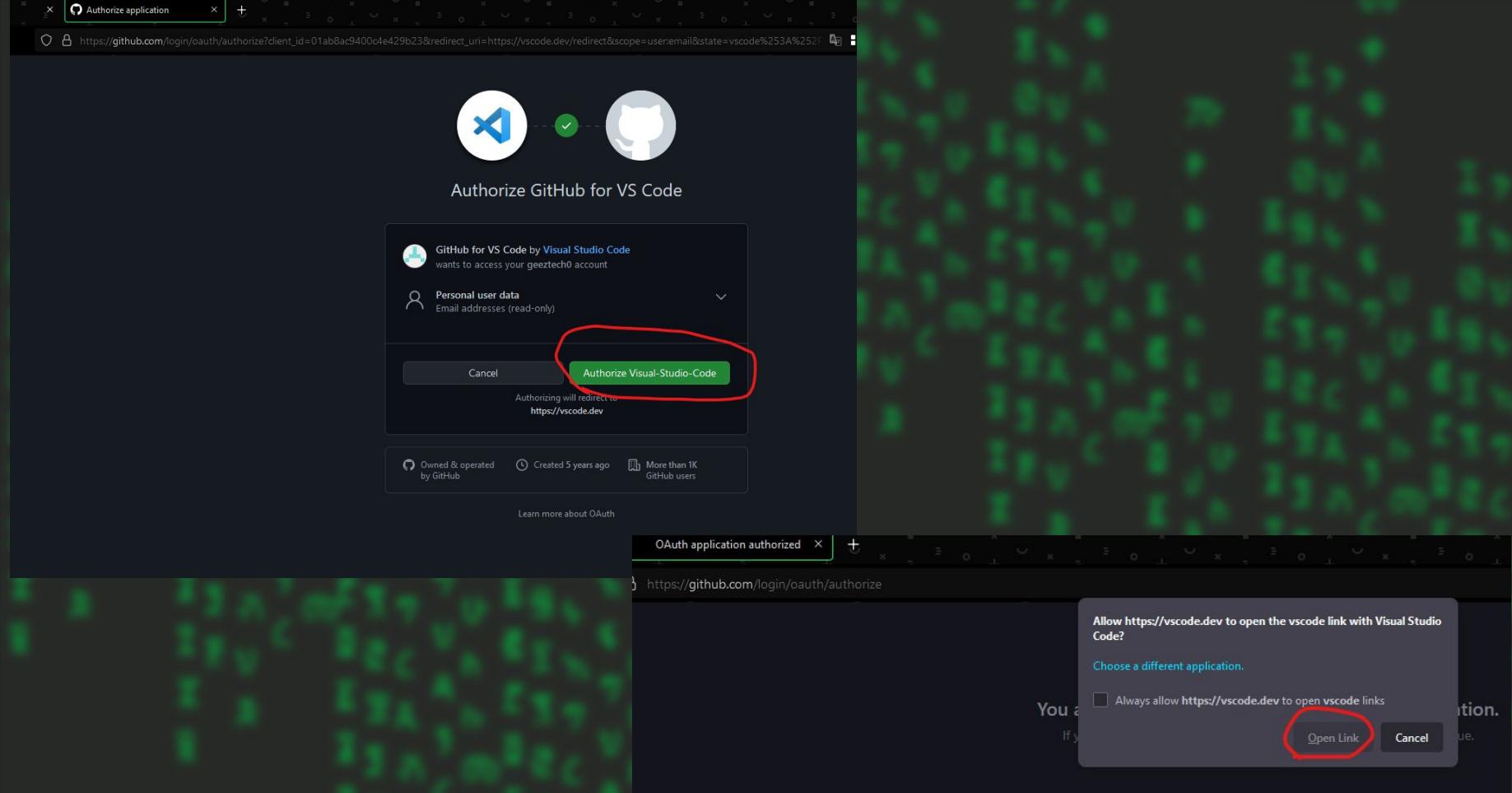
The image shows the Obsidian application interface. On the left, the sidebar displays the 'Obsidian Vault' with various note cards and sections like 'General Notes', 'CSS Advanced', and 'My JS Notes'. The main area shows a note card titled 'CSS Advanced' with a heart icon. The content includes a 'Content' section with a numbered list of topics: 1. Units, 2. Tips, 3. Float, 4. Flexbox, 5. Grid. Below this is a 'Units' section containing a list of bullet points about viewport units (vh, vw) and rem units. The 'Tips' section contains a list of bullet points about margin and padding, and a note about global reset. A code editor at the bottom shows a CSS snippet for clearing margins and paddings. To the right, another note card titled 'My JS Notes' is shown, featuring a smiley face icon, with details about its start date (2023-06-27), end date, and author (Nathan Hailu). The bottom right corner shows a status bar with review counts, timer, and character count.

Another method: you can use VScode

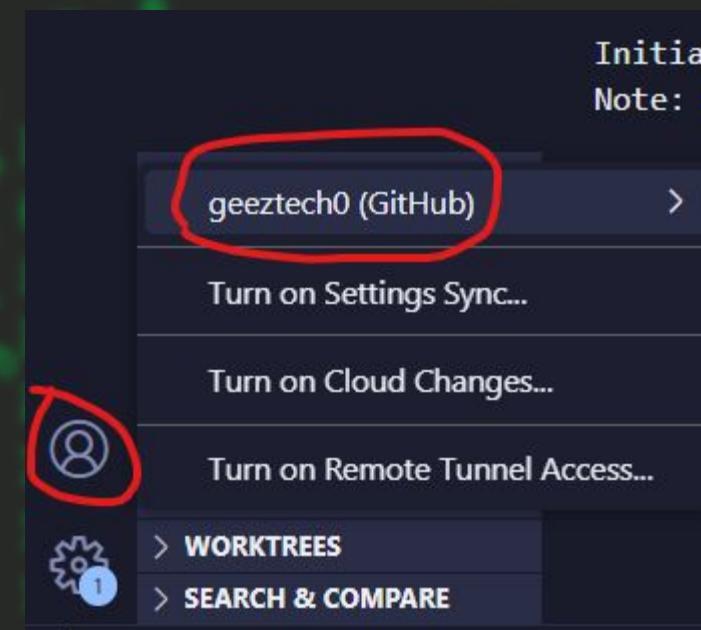
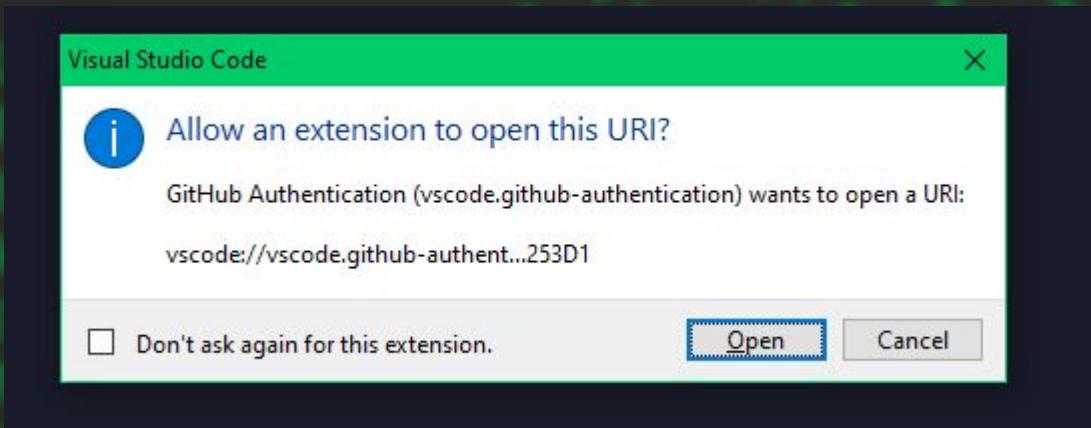
Method #2

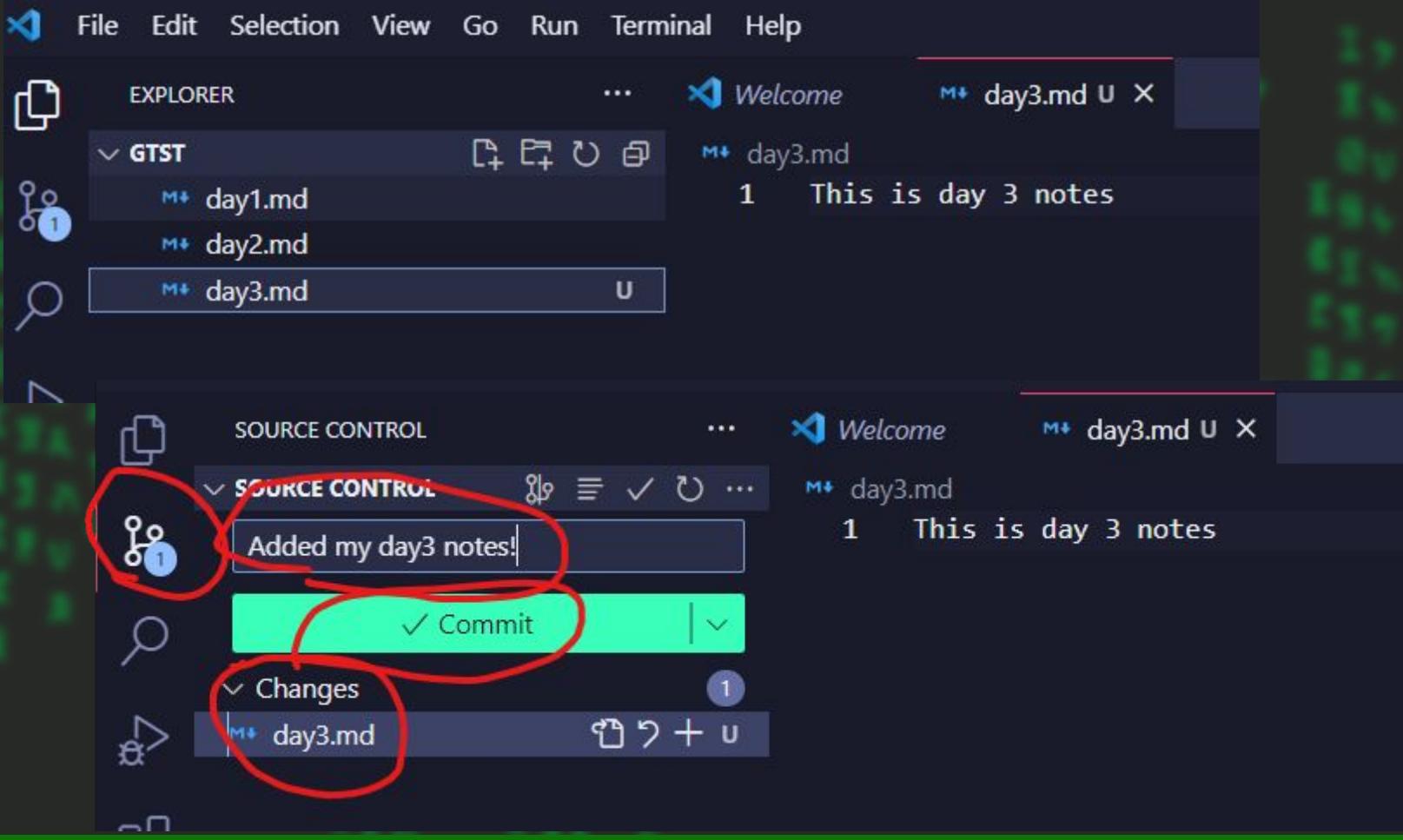


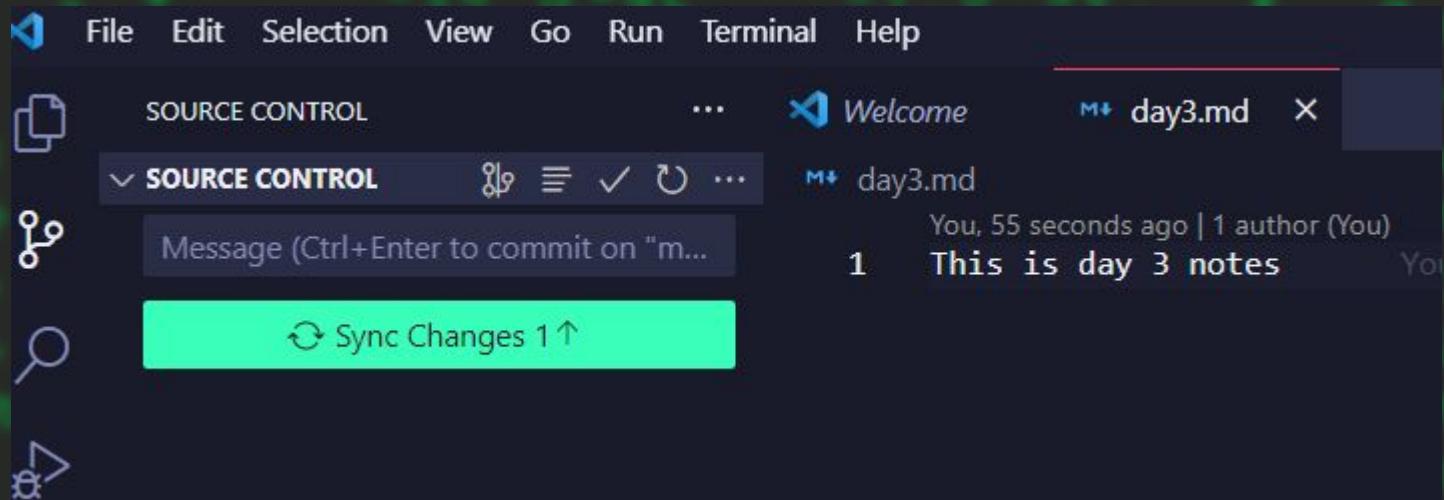




Initia
Note:







Another method

rexder26 / de Public

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH https://github.com/rexder26/de.git

Get started by creating a new file or [uploading an existing file](#). We recommend every repository include a `README`, `LICENSE`, and `.gitignore`.

...or create a new repository on the command line

```
echo "# de" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/rexder26/de.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/rexder26/de.git
git branch -M main
git push -u origin main
```

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

ProTip! Use the URL for this page when adding GitHub as a remote.

Method #3

de /



Drag files here to add them to your repository

Or [choose your files](#)



Commit changes

Add files via upload

Add an optional extended description...

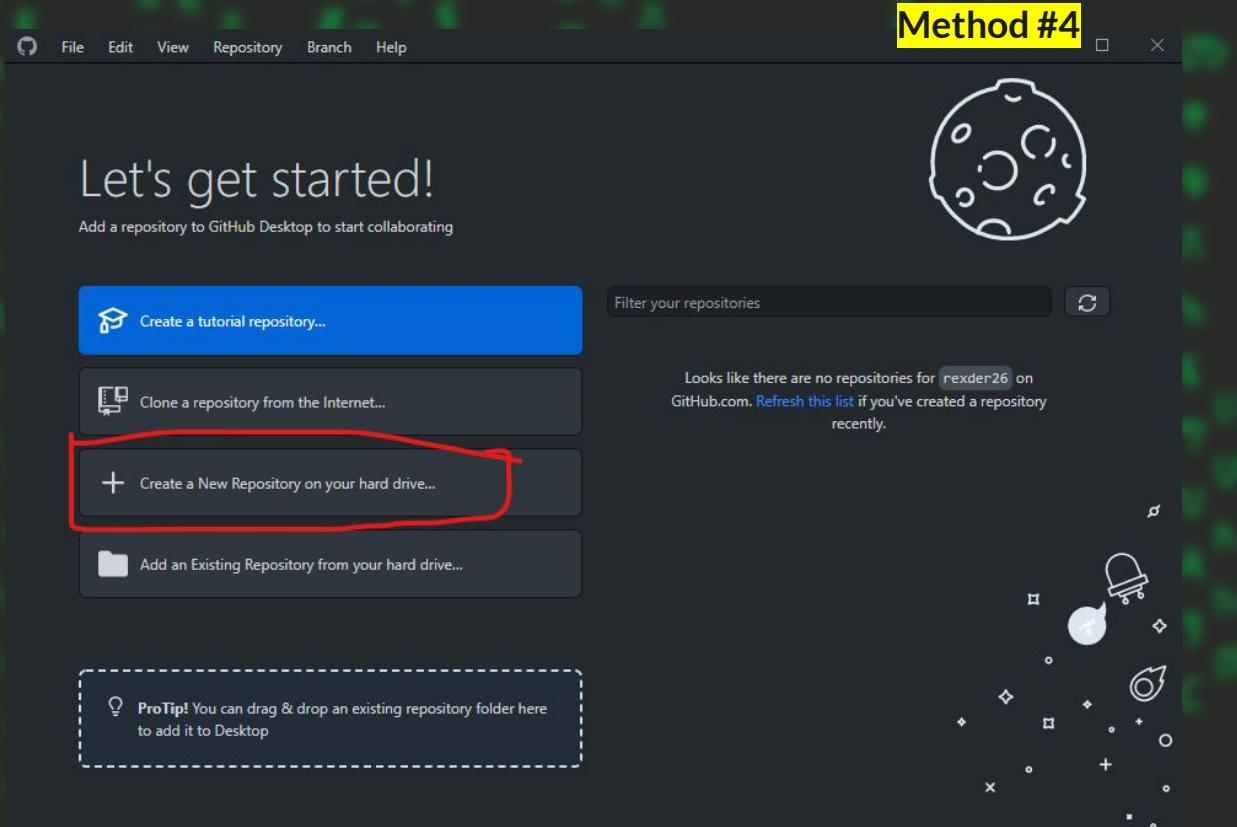
[Commit changes](#)

[Cancel](#)

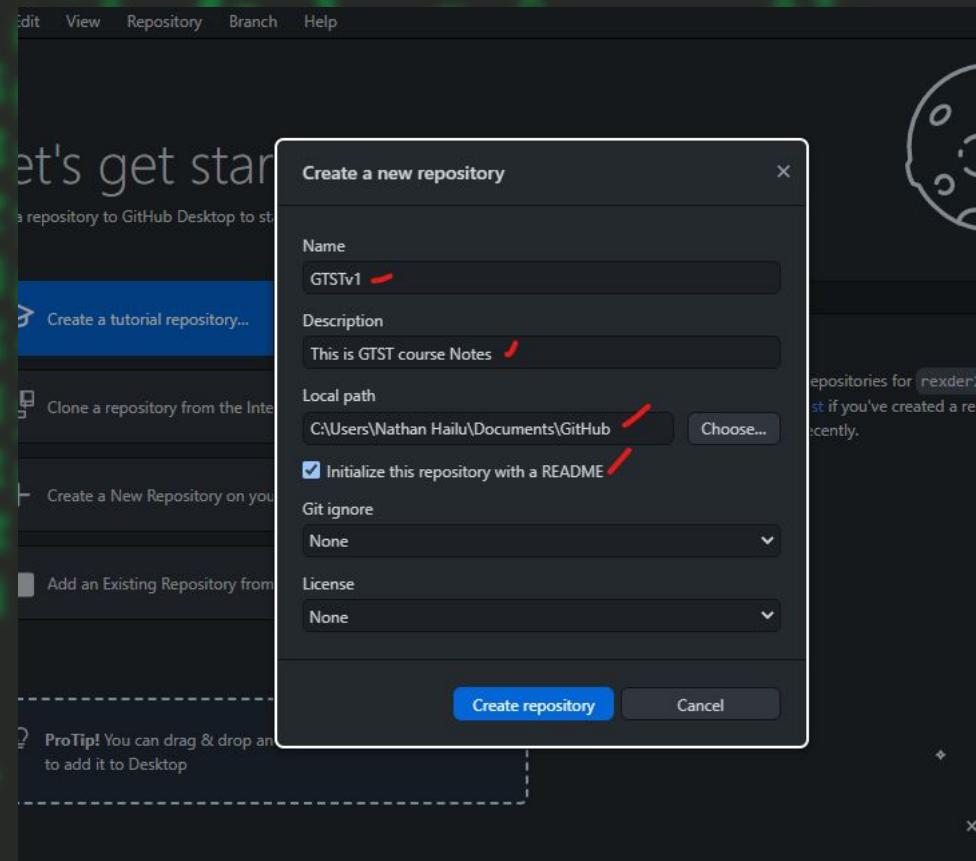
Method #4

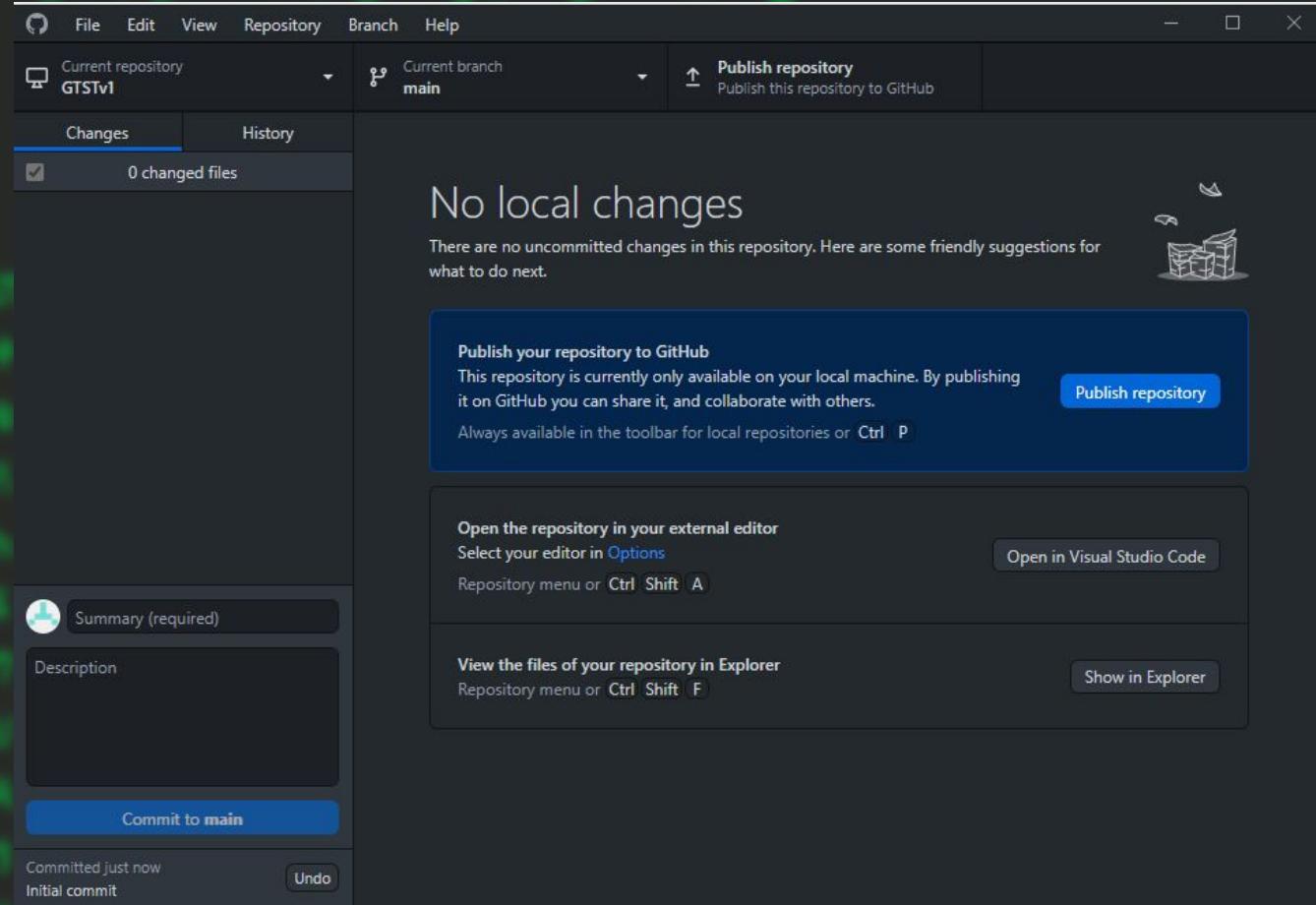
GitHub Desktop

- GitHub Desktop is a **free, open source application that helps you to work with code hosted on GitHub or other Git hosting services.**
- GitHub Desktop on supported operating systems, which currently include macOS 10.13 or later and Windows 10 64-bit or later
- Step1: Create new repository

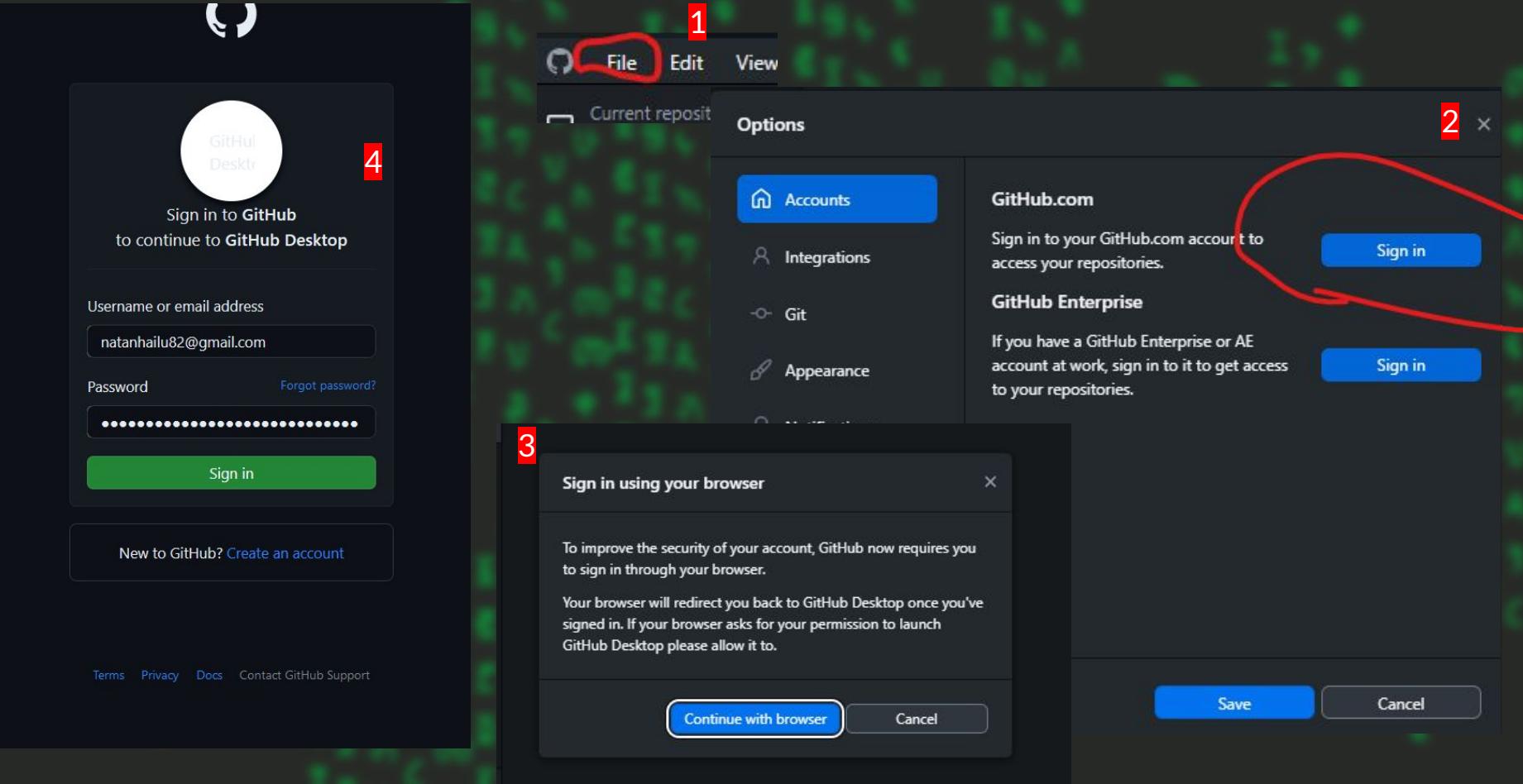


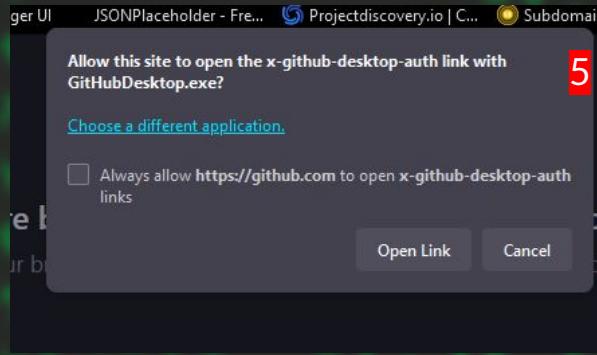
Step2: Give it name and location





Step3: Login to a github Account





Options

6

Accounts

Integrations

Git

Name

rexder26

Email

nathanhailu82@gmail.com

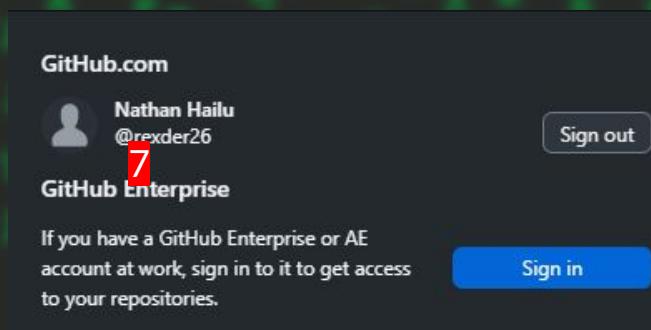
Default branch name for new repositories

main

master

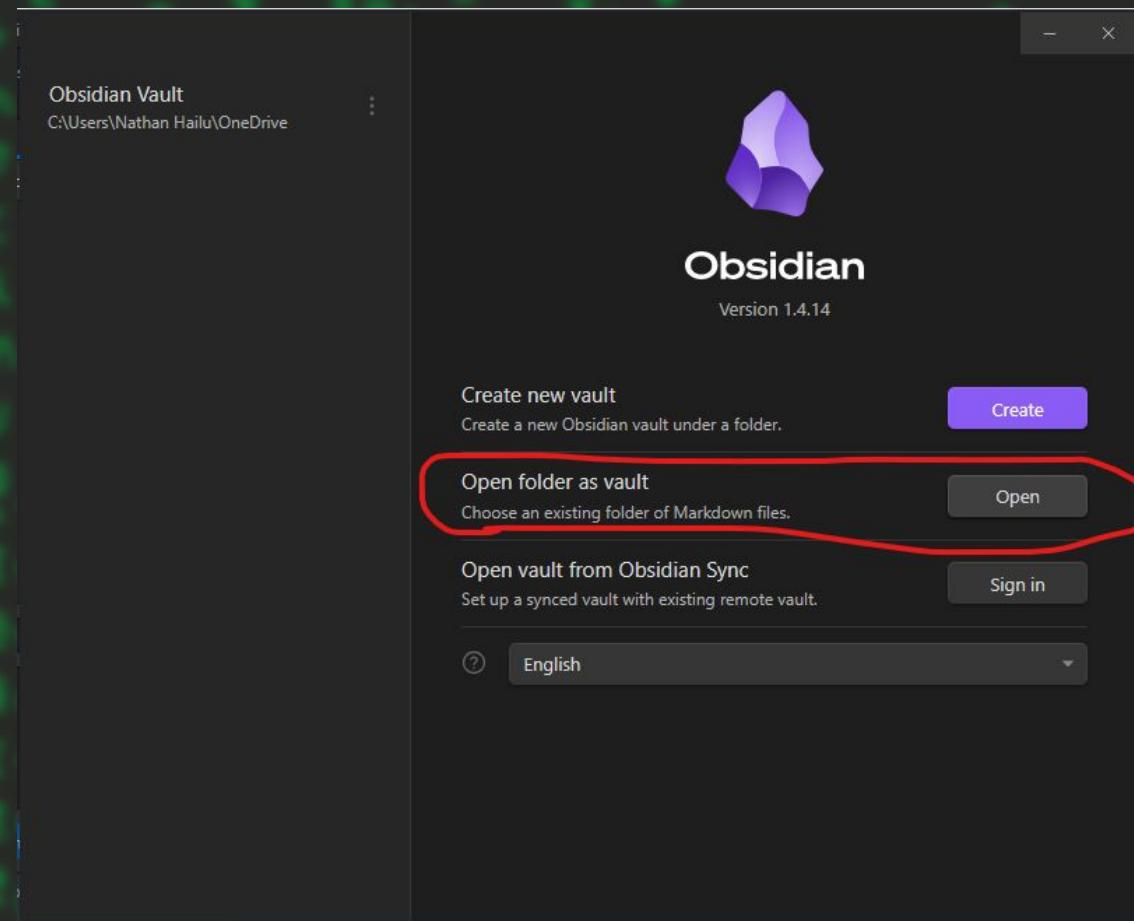
Other...

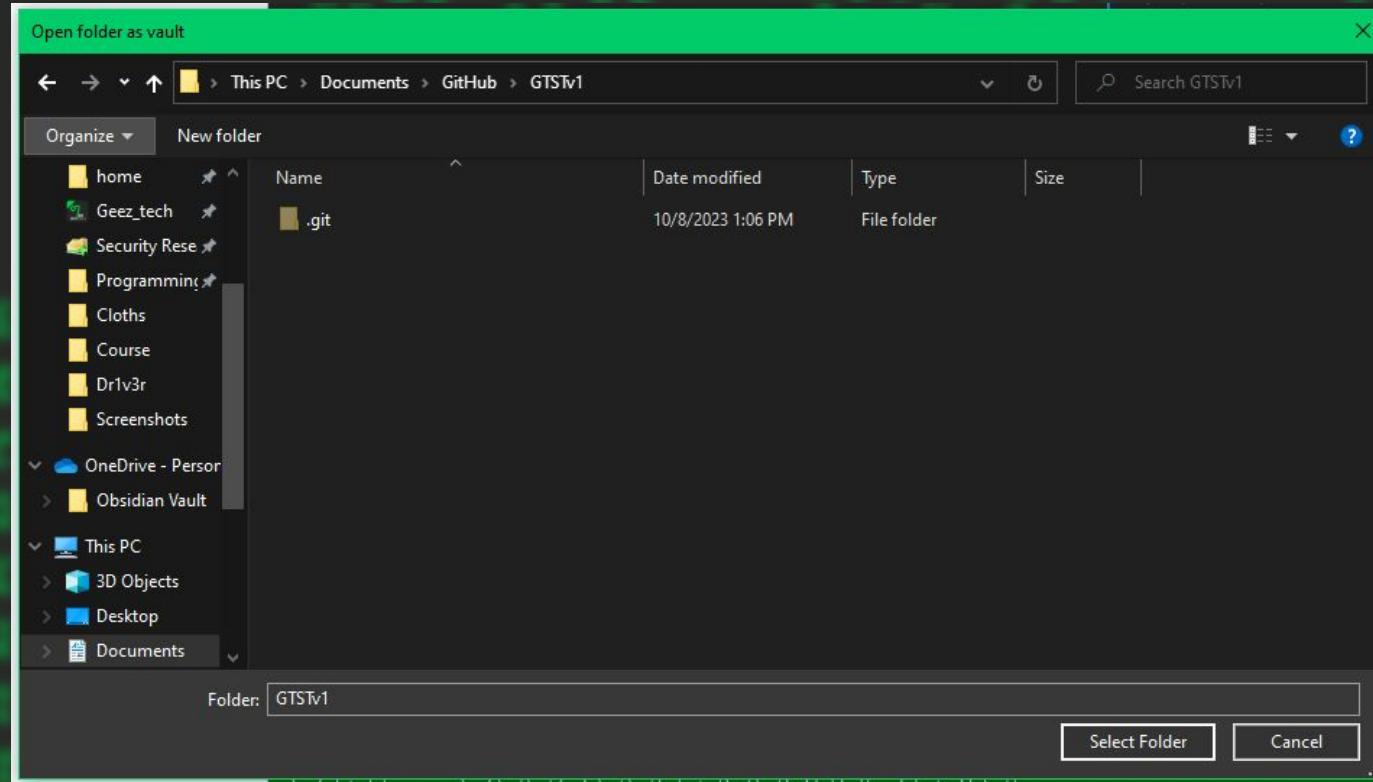
These preferences will edit your global Git config.

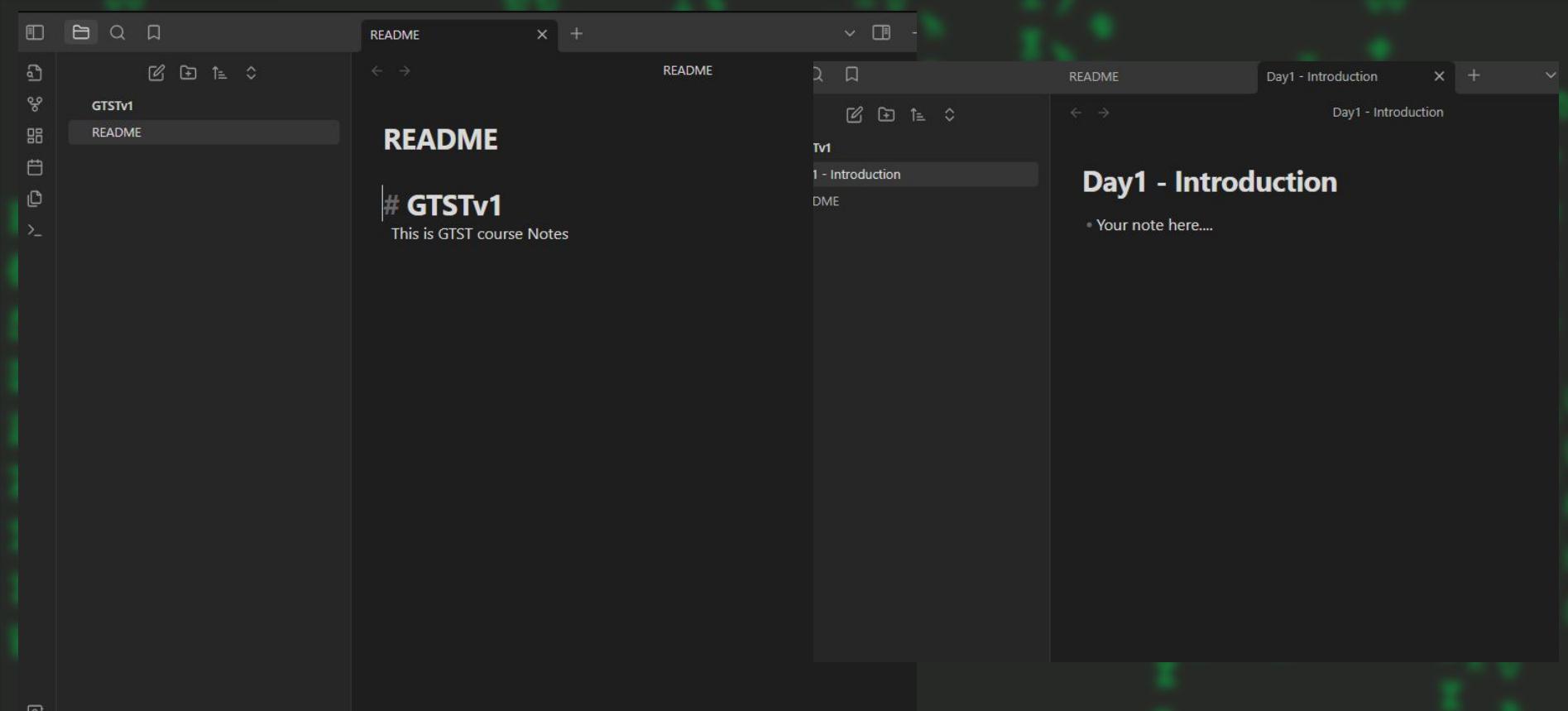


Step4: To take the note

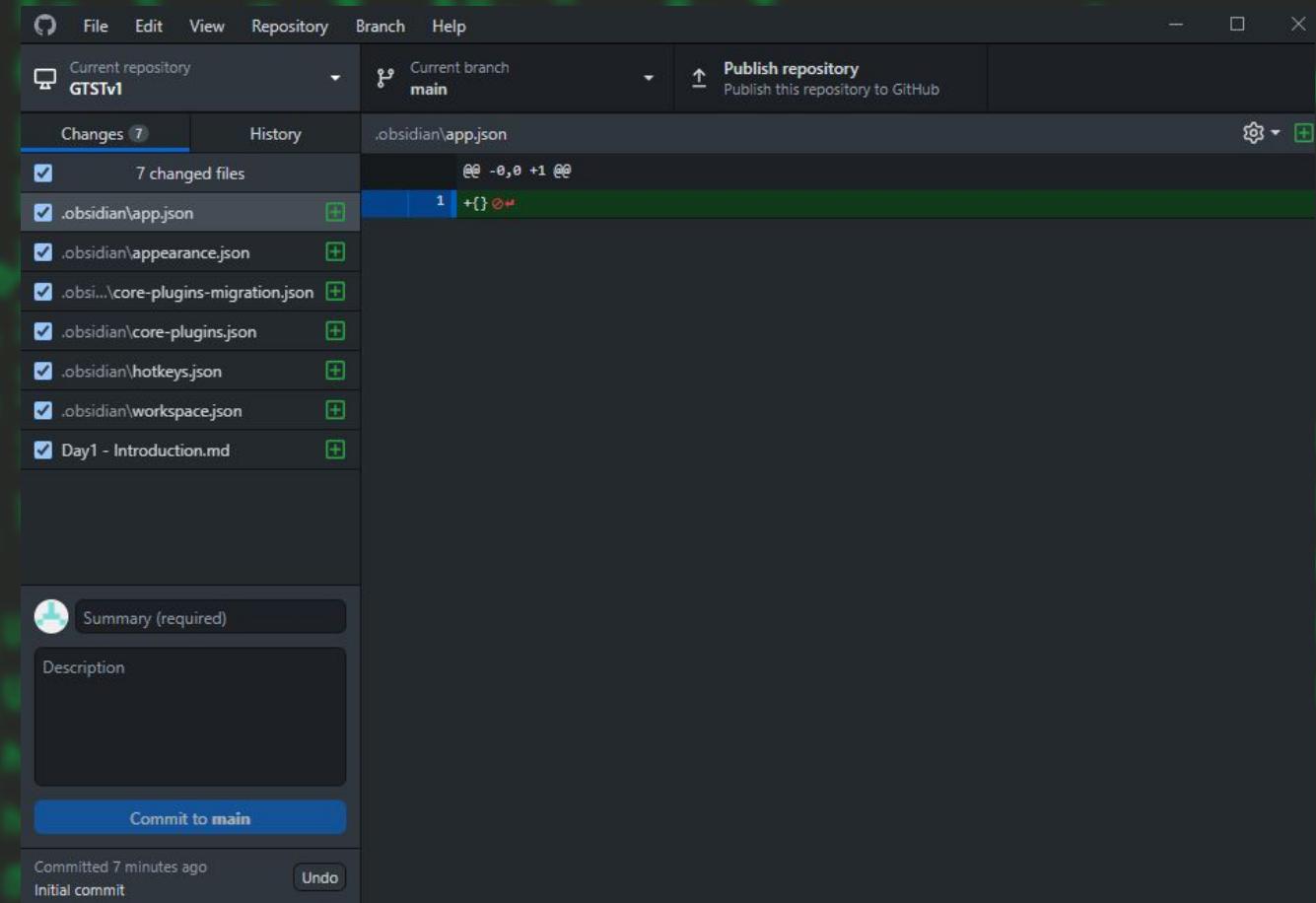
- Open the repository you created with Obsidian or Vscode







Step5: Write Your notes



Step6 - commit

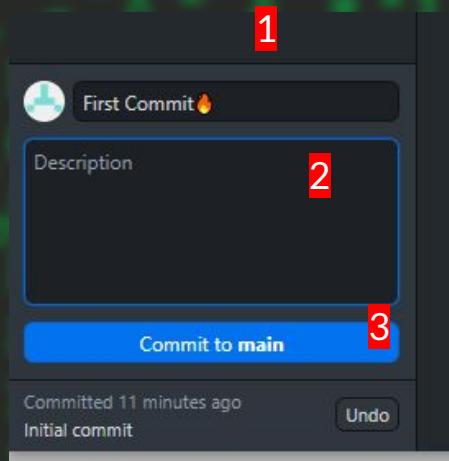
When you go back to the github desktop it will automatically detect the changes and the new created files.

Now let's commit

Give it name and if
you need
description(optional)

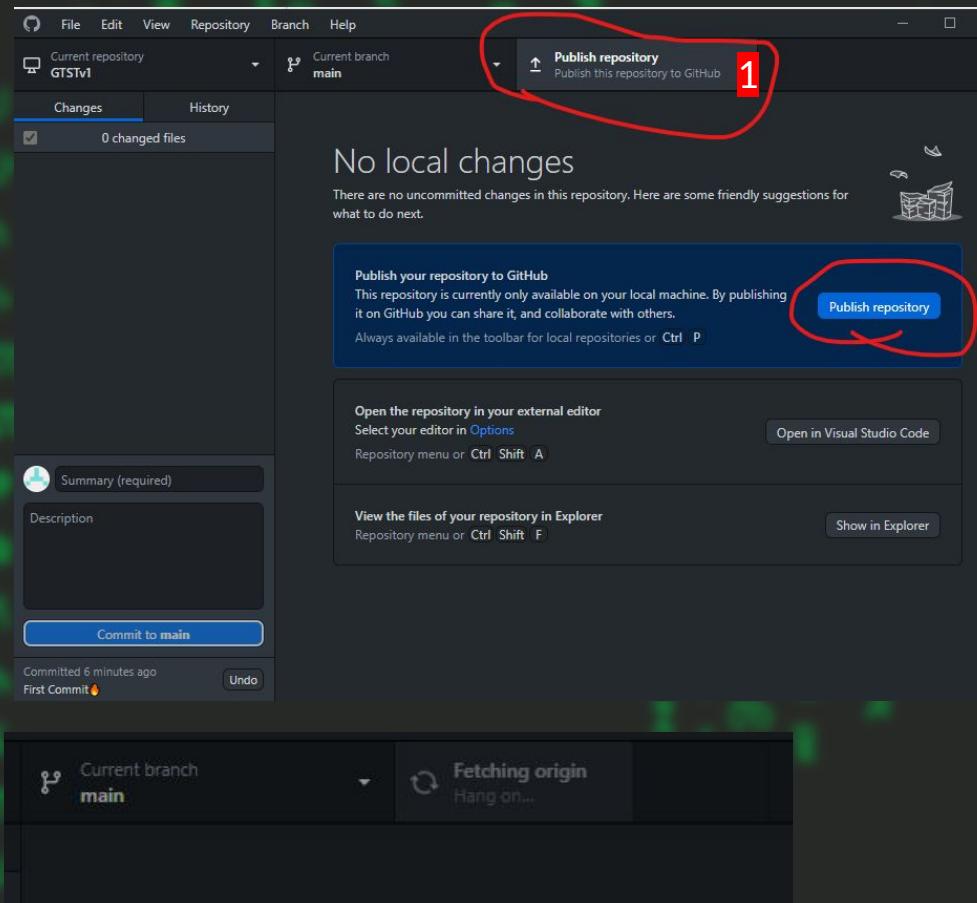
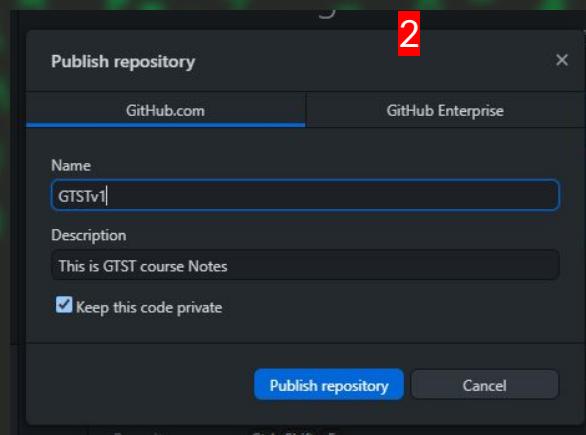
Then hit the blue
commit button

Then it will show you
the name in button
left corner.



A screenshot of the GitHub desktop application showing the repository view. The top navigation bar shows "File", "Edit", "View", "Repository", "Branch", and "Help". The "Repository" dropdown is set to "GTSTv1" and the "Branch" dropdown is set to "main". On the right, there is a "Publish repository" button. The main area displays the message "No local changes" and "There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next." It includes sections for publishing to GitHub, opening the repository in an external editor, and viewing files in Explorer. A red circle highlights the "First Commit🔥" message in the commit history at the bottom of the screen.

Step7: Pushing to Github





Nathan Hailu
rexder26

Find a repository...

Type ▾

Language ▾

Sort ▾

New

GTST Private

This is GTST course Notes

Updated 1 minute ago

Star ▾

Web-Academy Public

1 Updated 5 days ago

Starred ▾

CTF_notes Public

This are notes i wrote while i play CTF's

Starred ▾

BOOM!!! We Published it
on Github

To Commit on Another day class...

The screenshot illustrates a workflow for committing changes to a GitHub repository named 'GTST'.

- Step 1:** The terminal shows the command `git add Day2 - Linux`, indicating the file has been staged for commit.
- Step 2:** The terminal shows the command `git commit -m "Day2 note is Added"`, with the commit message being entered.
- Step 3:** The terminal shows the command `git push origin main`, with the push operation in progress.
- Step 4:** The terminal shows the output of the push command, confirming successful pushes to the 'main' branch for files like `.obsidian/workspace.json`, `Day2 - Linux.md`, and `README.md`.

GTST - GeezTech Security Tester® by Nathan Hailu

MARKDOWN



Url:

<https://www.markdownguide.org/cheat-sheet/>

Element	Markdown Syntax
Heading	# H1 ## H2 ### H3
Bold	bold text
Italic	<i>italicized text</i>
Blockquote	>blockquote
Ordered List	1. First item 2. Second item 3. Third item
Unordered List	- First item - Second item - Third item
Code	`code`
Horizontal Rule	---
Link	[title](https://www.example.com)
Image	![alt text](image.jpg)

Exercise time

1. Create Repository on you computer
 - a. Name: gtst_course
2. Create a markdown files
 - a. Day1_Introduction.md
 - b. README.md
3. Create text inside Day1_Introduction.md
 - a. # DAY1: ETHICAL HACKING
 - b. Hello **this** is test
4. Create text inside README.md
 - a. This is note written while taking the Geez Tech Security Tester® course.
5. Push it to Your Github

You have 15min

**LET'S GET
STARTED!**

Introduction to Ethical Hacking

What is hacking?

- Hacking is referred to exploiting system **vulnerabilities** and compromising security controls to gain unauthorized access to the system.
- Ethical hacking finds the weak points or loopholes in a computer, web application, or network and reports them to the organization
- The person who do the hacking is called “HACKER”.

Types of hackers based on Ethics

BLACK HAT hackers

- The most evil and bad Peoples



Types of hackers based on Ethics

White HAT hackers

- The helping and Good Peoples



Types of hackers based on Ethics

Grey HAT hackers

- The middle mans ,
Good sometimes bad thinking
Peoples



Types of hackers based on Skill

Newbie / Noob

- Don't have any knowledge about hacking.



Types of hackers based on Skill

Script Kiddie

- A **script kiddie, skiddie, kiddie, or skid** is a **relatively unskilled individual who uses scripts or programs developed by others, primarily for malicious purposes**



Types of hackers based on Skill

Hacker

- Perfectly skilled, with less experience



Types of hackers based on Skill

Elite/Pro Hacker

- Perfectly skilled, with Much more experience



Why do we learn hacking??

1. To prevent hackers from gaining access
2. To uncover vulnerabilities
3. To strengthen the organization
4. To safeguard the data
5. To avoid security Breaches
6. To enhance security awareness
7. To make money

Who can be an Ethical Hacker??

1. Knowledge of Technology/Security areas
2. Ability to learn
3. Strong work ethics
4. Forensic and Security people

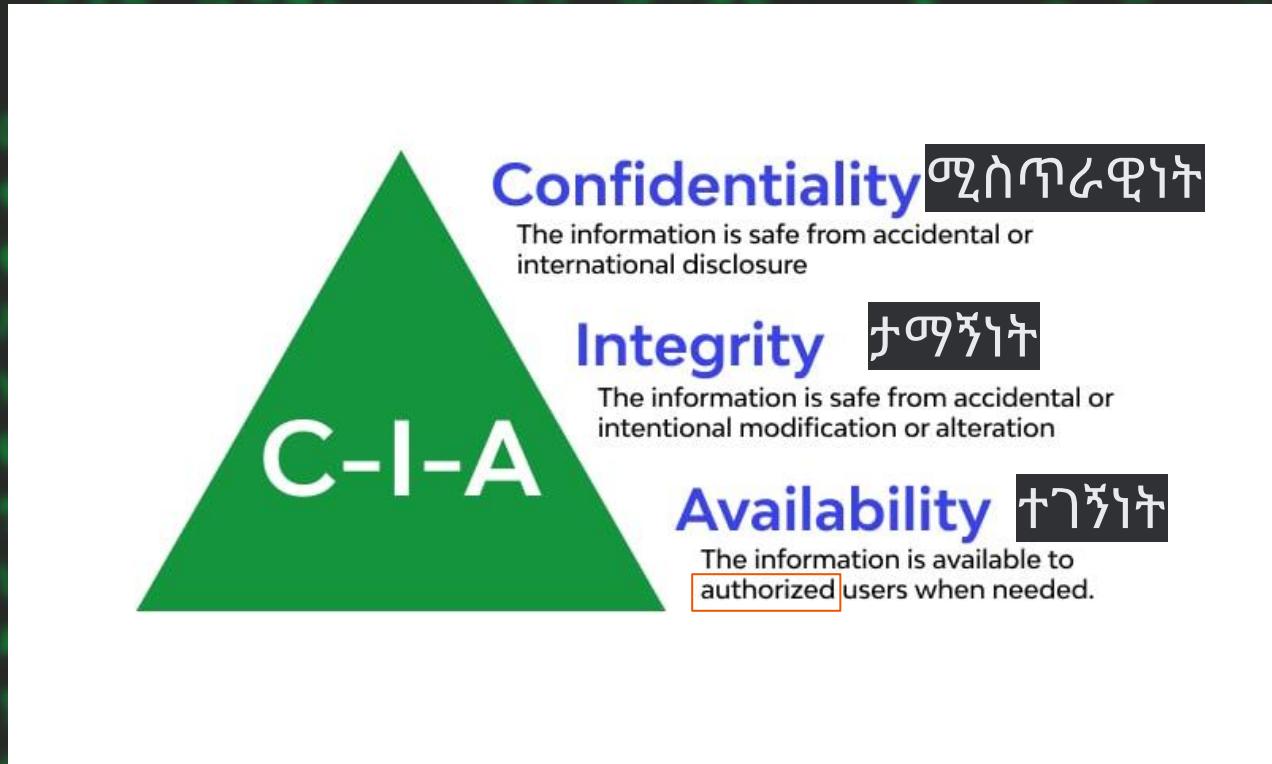
Why hack happens?

- ★ ATTACKS = MOTIVE(GOAL) + METHOD + VULNERABILITY
- ★ MOTIVE:- Information theft, manipulating data, Financial loss, Revenge, Ransom, Damaging Reputation.

Elements of Information security



CIA triad



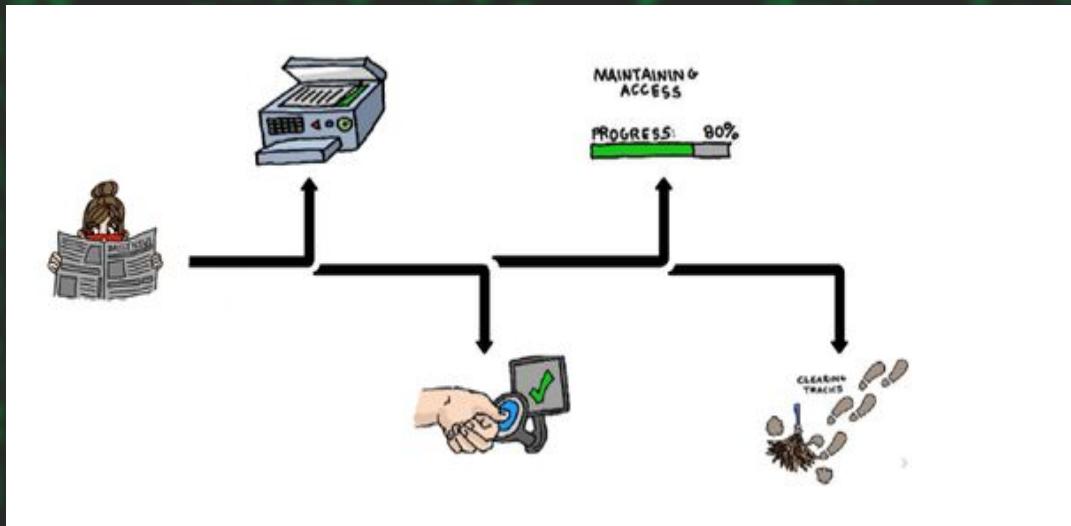
Skills we need to be hacker

- ★ Programming
- ★ Networking
- ★ Linux
- ★ System admin



Phases of Hacking

1. Reconnaissance
2. Scanning
3. Gaining Access
4. Maintaining Access
5. Clearing Tracks or Logs



Penetration Testing

- ★ Penetration Testing is a method of evaluating the security of an information system or network by simulating an attack to
- ★ find vulnerability
- ★ Security Measures
- ★ Documentation and Report Preparation

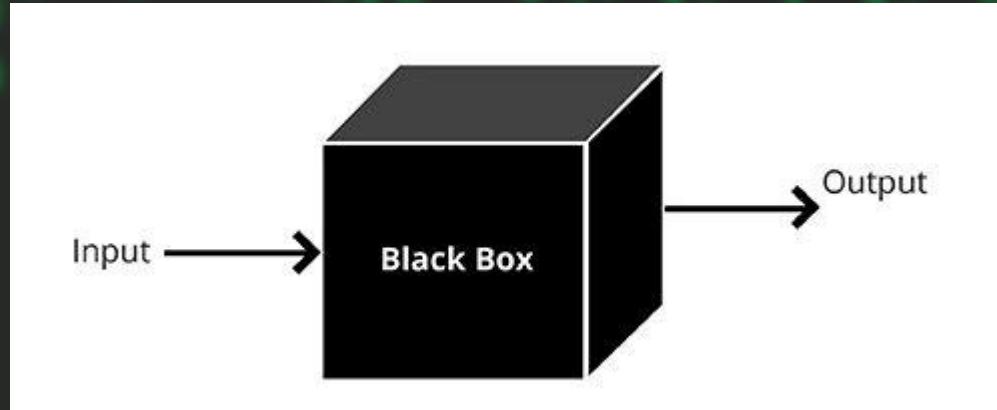
Why we need Penetration Testing?

- ★ Identification of threats
- ★ Security Protections and controls
- ★ Assessment of Organization's Security
- ★ Evaluation of Network Security
- ★ Upgradation of Infrastructure.

Types of Pentesting

Black Box Pentesting

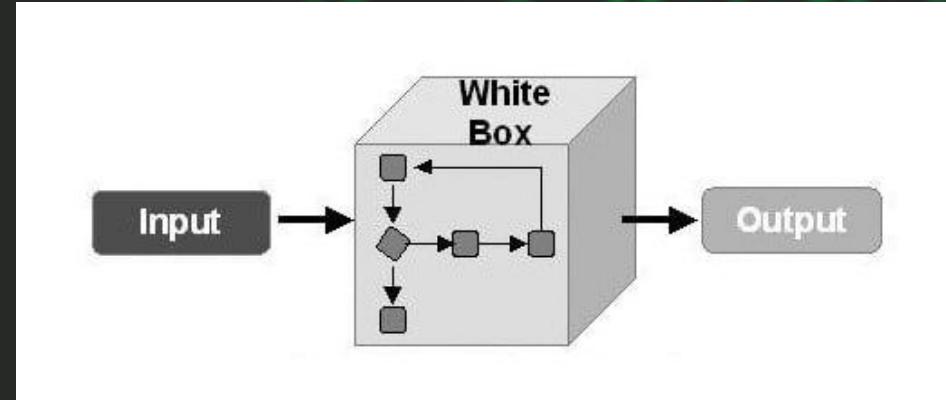
- Testing system without prior knowledge.
- You test as an attacker



Types of Pentesting

White Box Pentesting

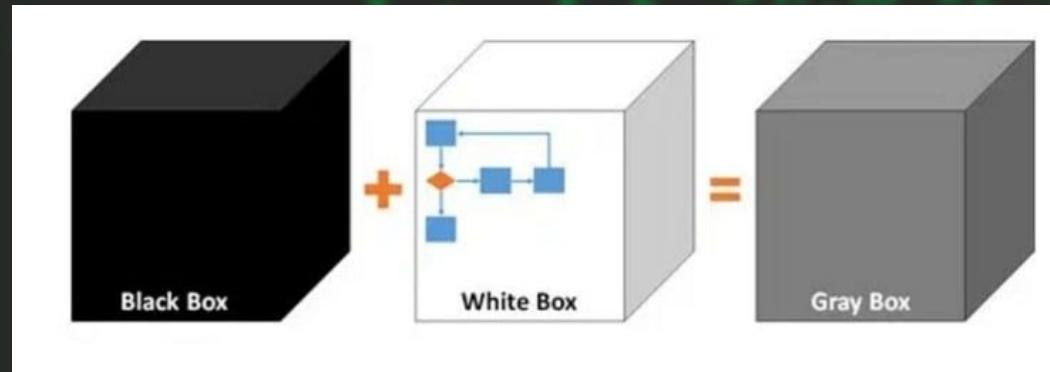
- Testing system with prior knowledge.
- You test as an Developer



Types of Pentesting

Grey Box Pentesting

- Testing system with Limited knowledge.
- You test as an User.



Terms

01

Red Team

These Peoples are Offensive, and Trying to Attack and try to gain Access, then Report the way they got in.

02

Vulnerability Assessment

These are Peoples, Who do some Security Check Based on Some List.

03

Security Audit

a comprehensive evaluation of an organization's security controls, policies, and procedures.

- FISMA,PCI DSS,HIPAA,ISO 27001

04

Blue team

They are the Defensive Peoples, Who will Do Firewalls and try to protect you.

Jobs with Ethical Hacking

- Cyber Security Expert
- Security Analyst
- Cyber Security Consultant
- Web penetration tester
- Internal and External Penetration tester
- Network Security Tester
- Bug Hunter

Cyber Security Salary by Position, Low & High

Position	Low	High
Information Security Manager	\$150,000	\$225,000
Cyber Security Engineer	\$116,000	\$208,000
Application Security Engineer	\$146,000	\$177,000
Network Security Engineer	\$92,000	\$172,000
Cyber Security Analyst	\$102,000	\$208,000
Cyber Security Scenario Designer	\$135,000	\$260,000

cyber security in Ethiopia
36 results Set alert

 Ethiopia Security Specialist
One Acre Fund
Addis Ababa, Addis Ababa, Ethiopia (On-site)
 Actively recruiting
Promoted

 Experts & Local Partner Network - SEA 2023 LOT 14 – Migration and Forced Displacement
NTU International A/S
Ethiopia (Remote)
 Actively recruiting
Promoted ·  Easy Apply

 Cyber Defense Analyst (Managed Detection) - Tier 2
ISH Technologia
Debre Work, Amhara Region, Ethiopia (Remote)
 Actively recruiting
Promoted ·  Easy Apply

 Technical Adviser
Financial Ombudsman Service
Debre Work, Amhara Region, Ethiopia (Hybrid)
 Actively recruiting
Promoted

 Cyber Security - Defence Sector
Edwards Digital Technologies LLC
South West Ethiopia Peoples, Ethiopia
2 weeks ago · 5 applicants

 Cyber Security Consultant - Operational Technology - Remote
Circle Group
South West Ethiopia Peoples, Ethiopia (Remote)

Senior Officer-Cyber Security

Job by Zemen Bank S.C (Job Id: 496835 | 1272 Views)

Category: Information Technology

Location: Addis Ababa

Career Level: Mid Level (2+ - 5 years experience)

Employment Type: Full time

Salary: Attractive Salary and Benefits

Posted

01
Sep



[View Jobs by this company](#)

Freelance Ethiopia Afriwork

Job Title: Penetration tester and Cyber Security Manager

Company: Ashewa Technology Solutions S.C [Verified Company]

Job Type: Permanent

Description: As a Vulnerability and Penetration Testing Specialist you are responsible to perform system reviews, including penetration and vulnerability testing and/or threat intelligence analytics as well as moderate to complex system analysis. You will conduct network, software and cloud vulnerability and penetration testing utilizing various industry-based tools as well as reverse engineering techniques. You will recommend various methods of mitigation and resolution options to isolate, block or remove threats and also evaluate system security configurations, providing feedback on best practices and policy adjustments.

Principal Security/ Cyber - Security Officer | Tsehay Bank S.C

Contact Details

Company : General Job Post Account-16

Company Name/
Contact Person : Tsehay Bank S.C

E-Mail :

Phone :

Job Details

Job Title : Principal Security/ Cyber - Security Officer

Date Posted/Updated : Monday, November 13, 2023

Application Deadline : Friday, November 17, 2023

Job Type : Full Time

Category : Information Technology

Job Code : NA

Description

Freelance Ethiopia Afriwork

----- Closed -----

Job Title: Ethical hacker and content creator.

Company: Nisir Cyber Security

Job Type: Remote

Description: 1. Penetration testing of different machines and platforms (Windows, Linux, Android and Web applications)
2. Developing, testing and producing different tools computer security tools and programs.
3. Creating contents for social media platforms and creating courses.

Requirements

- Passion on Cyber security field
- A background on different linux systems, windows and web applications
- Networking knowledge is required.
- Advanced knowledge on scripting languages and programming languages (bash/python preferable)
- IT related Degree is preferable but not required.
- Knowledge on offensive and blue team penetration testing.
- Advanced knowledge on BurpSuite, Wireshark, Metasploit and other related tools is required.

#software

----- Closed -----

From: @freelance_ethio

13.2K Freela... edited 4:25 PM

report	Vulnerability type (CVE)	Severity	Reward	Status
<p>Text Injection/ Content Spoofing on https://cloud.e.khanacademy.org by ...</p> <p>Reported by grassye to Khan Academy Disclosed about 1 day ago</p> <p>A vulnerability was discovered on https://cloud.e.khanacademy.org that allowed text injection via breaking out of an input tag. By inserting a closing angle bracket in a parameter value, an attacker could inject arbitrary text that would be reflected on the page, enabling phishing attacks. The issue was reported to impact the districts demo form page. This summary was automatically generated.</p> <p>14</p>  	Violation of Secure Design Principles	Low	\$0	● Resolved
<p>Possibility of Request smuggling attack</p> <p>Reported by aimotonorihito to Internet Bug Bounty Disclosed 2 days ago</p> <p>A vulnerability in Apache Tomcat allowed request smuggling due to incorrect parsing of HTTP trailer headers. A specially crafted trailer header exceeding the size limit could cause Tomcat to treat a single request as multiple requests, enabling request smuggling attacks when behind a reverse proxy. The issue was responsibly reported by Norihito Aimoto of OSSTech Corporation. This summary was automatically generated.</p> <p>24</p>  	HTTP Request Smuggling	High	\$4,660	● Resolved
<p>curl cookie mixed case PSL bypass</p> <p>Reported by nyymi to Internet Bug Bounty Disclosed 2 days ago</p> <p>A vulnerability in curl allowed a malicious HTTP server to set "super cookies" that bypassed the Public Suffix List check, enabling cookies to be sent to unrelated sites and domains. This summary was automatically generated.</p> <p>9</p>  	Information Exposure Through Sent Data	Medium	\$2,540	● Resolved
<p>OpenSSL vulnerable to the Marvin Attack (CVE-2022-4304)</p> <p>Reported by hkario to Internet Bug Bounty Disclosed 2 days ago</p> <p>A timing side channel vulnerability in OpenSSL RSA decryption was discovered that could allow plaintext recovery. By measuring decryption time, an attacker could recover RSA plaintext from captured ciphertexts after a large number of decryption attempts. All RSA padding modes were affected. The vulnerability was addressed in OpenSSL 3.0.8, 1.1.1t and 1.0.2zg. This summary was automatically generated.</p> <p>13</p>  	Information Exposure Through Timing Discrepancy	Medium	\$2,540	● Resolved
<p>CVE-2023-5528: Insufficient input sanitization in in-tree storage plugin lea...</p> <p>Reported by tomerpeled92 to Kubernetes Disclosed 3 days ago</p> <p>Insufficient input sanitization in an in-tree storage plugin was found to lead to privilege escalation on Windows nodes. The issue was assigned CVE-2023-5528 and rated as a Tier 1 High severity vulnerability by the Kubernetes team, who verified the report and are working on a fix. This summary was automatically generated.</p> <p>19</p>  	Code Injection	High	\$5,000	● Resolved

Ethics of Cyber Security

#1) Respect the privacy of others.

#2) Think before you type.

#3) With great power comes great responsibility.

- Ethics is the Most Important concept in cyber security, also this is a course focusing on Ethical hacking, aka “the Good guys”.
- We have to be ethical on every approach we are working. A single bypass can make your life in risk.
- So, always have **“PERMISSION!”**.
- Ethiopia have a Cyber Crime Law called **“የኢምተናትር ወንጀል አዋጅ”**. It have 6 parts. It is detailed on some attacks.
- Lets see some ethiopian Cyber Laws.
- We as a Ethical Hackers, Our Goal and the Goal of this course is “To Create a Safe and Threatless Environment To humans”.
- But the only way to Protect Your device is by thinking like a blackHat, so any examples i mention in this course can look like blackhat concept but try to understand that those examples are just for “ Educational Purpose”

1/ ማንኛውም ሰው ሆነ በሌላ የሰራተኞች ወይም
ከተሰጠው ፊቁዴ መሠረት የከምተናትር ስርዓት፣
የከምተናትር ዓገጃ ወይም ክትወርክ ያረሰሰነት
በከፈልግ ሆነ በሙሉ የጥና እንደሆነ ከሚሰጥ
ገመት በማይበስተዋጥ ቅልል እስራት ወይም ከዘር
በዚህ እስከ ገዢ ዘዴ በማረጋገጫ መቀበዣ ወይም
በሁሉም ያቀጣል::

ማንኛውም ሰው ሆነ በሌላ የሰራተኞች ወይም
ከተሰጠው ፊቁዴ መሠረት ያፋዊ የልማዝን
የከምተናትር ዓገጃ ወይም የእናት ተርጓሜንን
አገልግሎት የጠልቅ እንደሆነ ከእምሰጥ ወመት
በማይበስተዋጥ ዓገጃ እስራት እና ከዘር ዘዴ እስከ
በዚህ በማረጋገጫ መቀበዣ ያቀጣል::

It is the Era for Security Engineers.



BE READY!



And Still In Ethiopia People don't
know about it! 😮

Mentor?

- Name: Mentesnot Wendemagegn
- I have skill and Certifications from(GTST,online courses), i am Student...
- I am learning to work on web penetration testing...
- It is almost 3 or 4 years since i started my hacking journey.

So you will be with me through this 1st season course...



Class is Over!

If you have Question, Comment you can do it
Now.