



Git & GitHub

n00bs

\$ WHOAMI!

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Agenda

1

Starting Point

Download Git:
<https://bit.ly/3f4PmmQ>
create GitHub Account
www.github.com

2

What is git?

What is version control?
Another control systems

3

What is GitHub?

remote repositories

4

How git work?

Git Workflow
Terms

5

Demos

How to create a repo
markdown Language

6

references

01
Starting
Point

01


Choose Your OS


git-scm.com/downloads ☆ bw [icons] ABP [icons]

ed-even-if-your-workflow-isnt

Search entire site...

Downloads

 **Mac OS X**

 **Windows**

 **Linux/Unix**

Older releases are available and the Git source repository is on GitHub.

Latest source Release

2.27.0

Release Notes (2020-06-01)

Download 2.27.0 for Windows

32-bit | 64-bit

Downloading Git



Your download is starting...

You are downloading the latest (**2.27.0**) **64-bit** version of **Git for Windows**. This is the most recent [maintained build](#). It was released **about 1 month ago**, on 2020-06-01.

[Click here to download manually](#), if your download hasn't started.

Other Git for Windows downloads

Git for Windows Setup

[32-bit Git for Windows Setup.](#)

[64-bit Git for Windows Setup.](#)

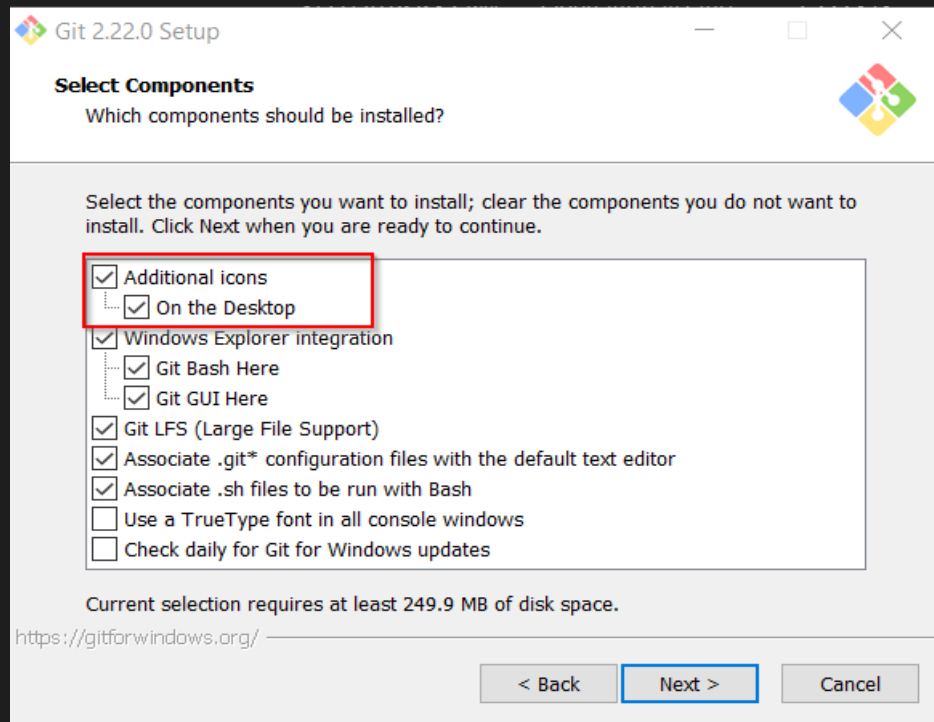
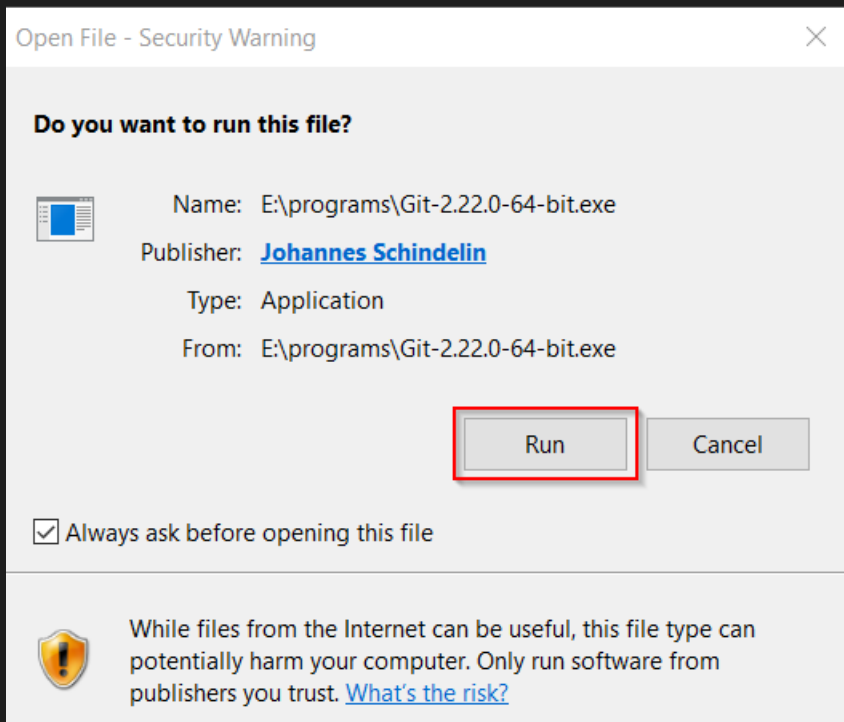
Git for Windows Portable ("thumbdrive edition")

[32-bit Git for Windows Portable.](#)

[64-bit Git for Windows Portable.](#)

The current source code release is version **2.27.0**. If you want the newer version, you can build it from [the source code](#).

Choose Your OS



Creating GitHub Account

Search GitHub

Username

Email

Password

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.

Username * ✓

Email address * ✓

Password *

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

Email preferences

☒ Send me occasional product updates, announcements, and offers.

Verify your account

Signed in as **testtest101**

Set status

Your profile

Your repositories

Your projects

Your stars

Your gists

Upgrade

Feature preview

Help

Settings

Sign out

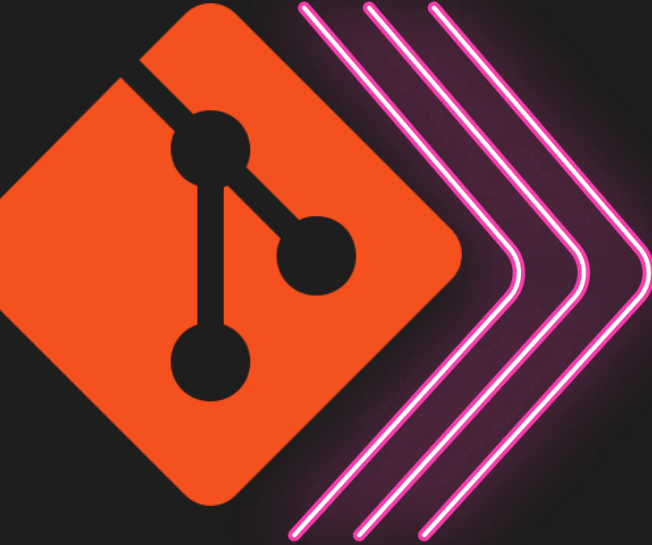
02

02

What Is Git ?

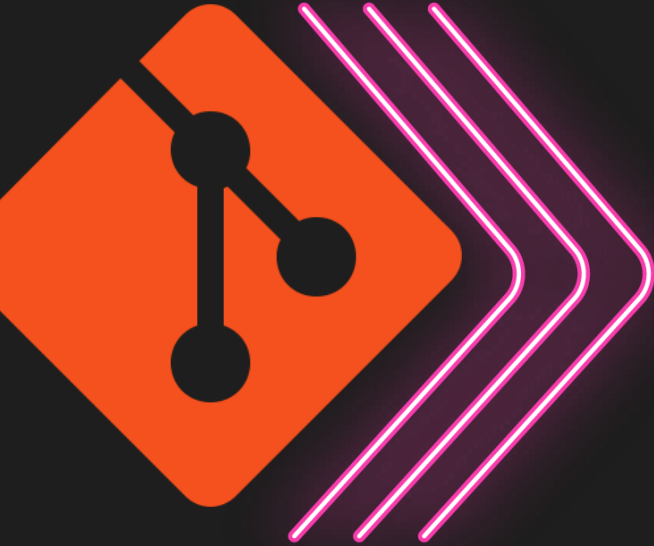


What is Git



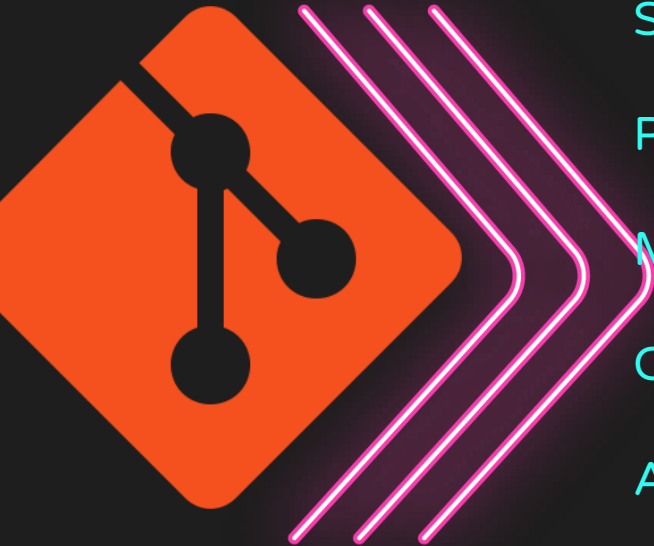
- **Git is a version control system**
 - **version Control** is a system that records changes to a file or set of files and helps us recall specific versions later if needed using command line.
- **it allow you to:**
 - Revert files or the whole project to an earlier state
 - Compare changes over time
 - See who modified what?
 - Control modifications by collaborators with the permission of admin/owners
 - Merge files rather than a “lock and checkout” model
 - Non-linear branching model

History of Git



- Started in 2005
- Created by Linus Torvalds to aid in Linux kernel development

Another Version Control Systems



Subversion

<https://subversion.apache.org/>

Perforce

<https://www.perforce.com/>

Mercurial

<https://www.mercurial-scm.org/>

Codeville

<http://freshmeat.sourceforge.net/projects/codeville>

ArX

<http://discovery.nifty.works/about/doxv1r4x42PrWnG3/arx>

03

03

What is GitHub?





<https://github.com>

Founded in 2008.

Largest web-based git repository hosting service as remote repositories.

Social web, leads to social coding.
repository hosting service for Git.

Can also be used for resource sharing and management in any team/environment.

Non-linear branching model.

Another repository management platforms



[Github](#)



[Bitbucket](#)



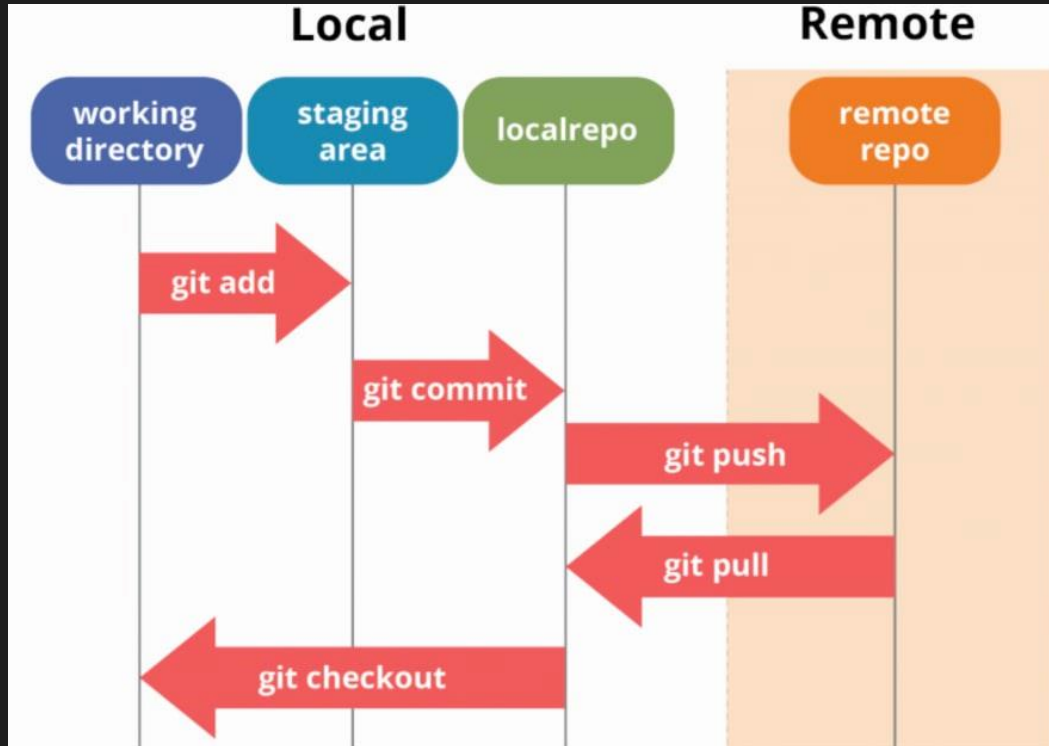
[Gitlab](#)

04

04

How git work?

Git Workflow



Commit

Point in time
snapshot of
repository
with
changes

Repositories aka repo

Collection of
stored code

cloning

The act of
copying a
repository
from a
remote
server

pushing

The process of adding your local changes to the remote repository

pulling

The process of downloading commits that don't exist on your machine from a remote repository

Pull Request

Comparison of edits to see if team wants to accept changes

Fork

Copy
repository

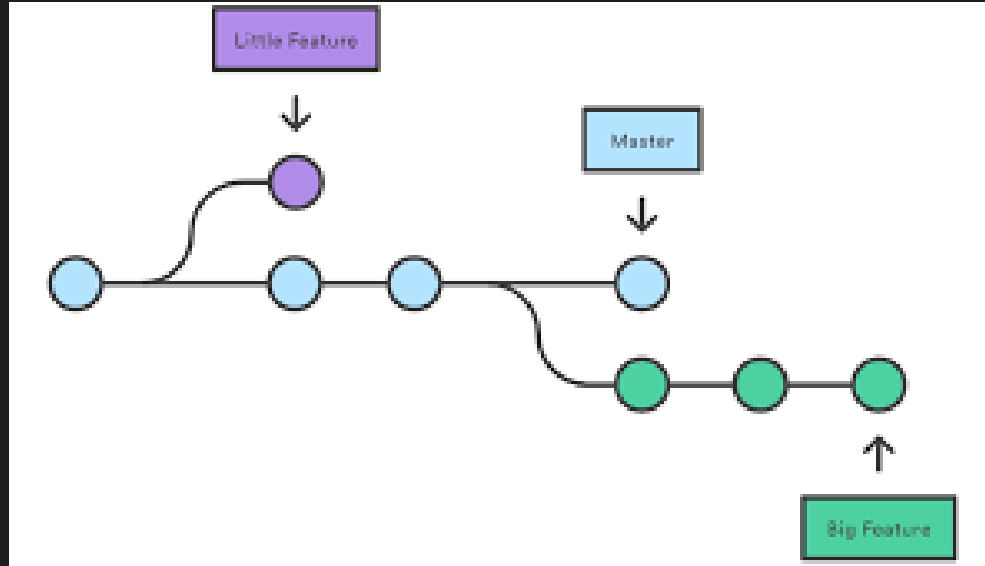
Branches

Indicator of
divergence
from base

master

The main
branch in a
project

Branches process



Markdown language

<> Edit file

Preview changes

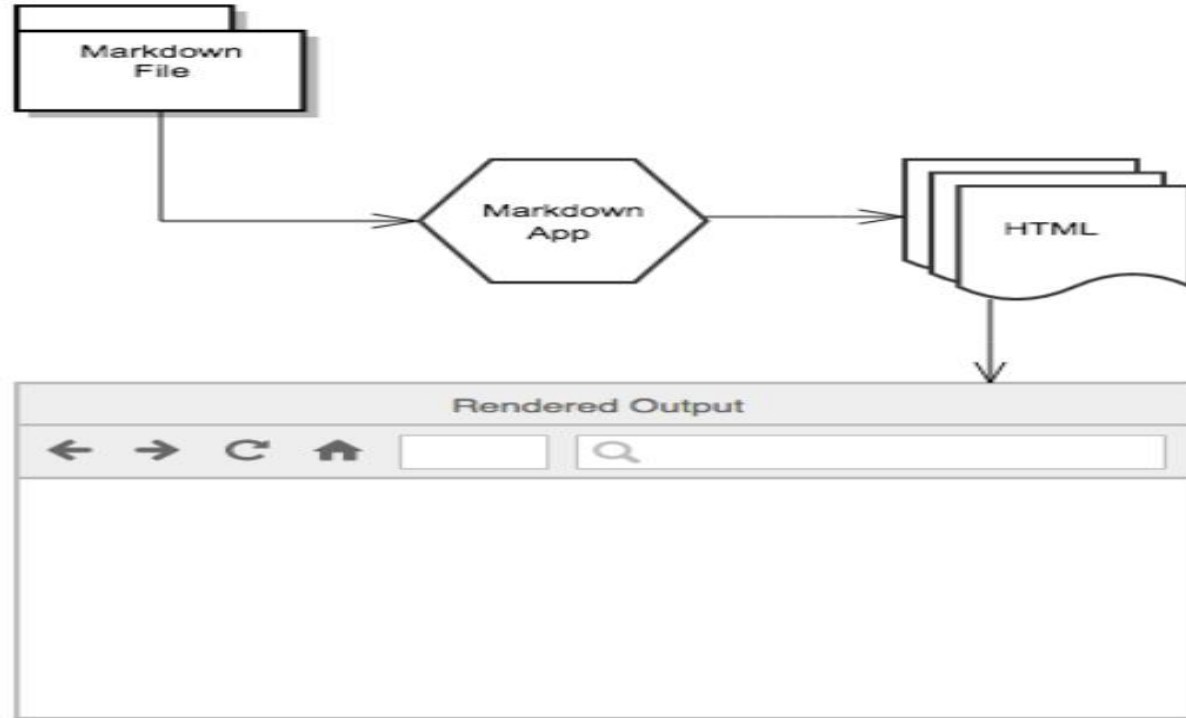
Spaces

2

Soft wrap

```
1 # Cyber Security Circle
2 **1-* Any member new to OS Linux should learn basic command line and an intro to shell scripting via this excellent book: \[Download PDE\](http://goo.gl/1NWT5N)
3
4 ***Chapters 1,2,3,4,5,9,17 are required and feel free to read more.***
5
6 **2-* We decided that Python will be the intro. to programming for the newcomers: \[Tutorial\](https://www.youtube.com/watch?v=f79MRyMsjrQ&t=35s)
7
8
9 ## Tasks
10 **1-* Write a summary for chapters 1,2,3,4,5,9,17 into one file and send it to me at as formal e-mail don't try to copy files from each other and edit it we will know about automatic tools for this and will reject who will do this.
11
12 **2-* Write a summary of why we will need python in cybersecurity.
13
14 **3-* Please use Google to search for cybersecurity related topics: *fields, jobs, current Threats, technology, Red and Blue teaming ...etc.*
15
16 *Try to use English sources* **IMPORTANT** *as I will ask about it in the interview.*
17
18 #### Send tasks *1 and 2* formally to this e-mail: yasser_elsnbary@catreloaded.net
19 ***Note:** No submission will be accepted after deadline!*
20
21 <p align=center>GOOD L(_)CK</p>
22
23 <p align=center>See you soon at the interview</p>
24
25
```

Markdown language



05

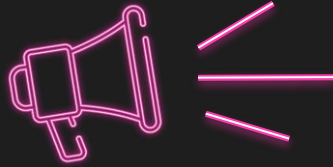
05

Demos

Try with yourself:

- create a repo
- clone From any repo
- Fork any repo
- create another account and make a pull Request
- try all options
- Delete repo

?



References

Git & GitHub crash course: <https://bit.ly/2NX6U8L>

What is Github: <https://bit.ly/31NK0Zo>

GitHub Workflow: <https://bit.ly/2ZICqN5> & <https://bit.ly/38yVwZX>

Markup down language: <https://bit.ly/2ZF8hhG>





THANKS!