

SRAJAN KOTIAN

KCTYBSCIT 026

DEVOPS

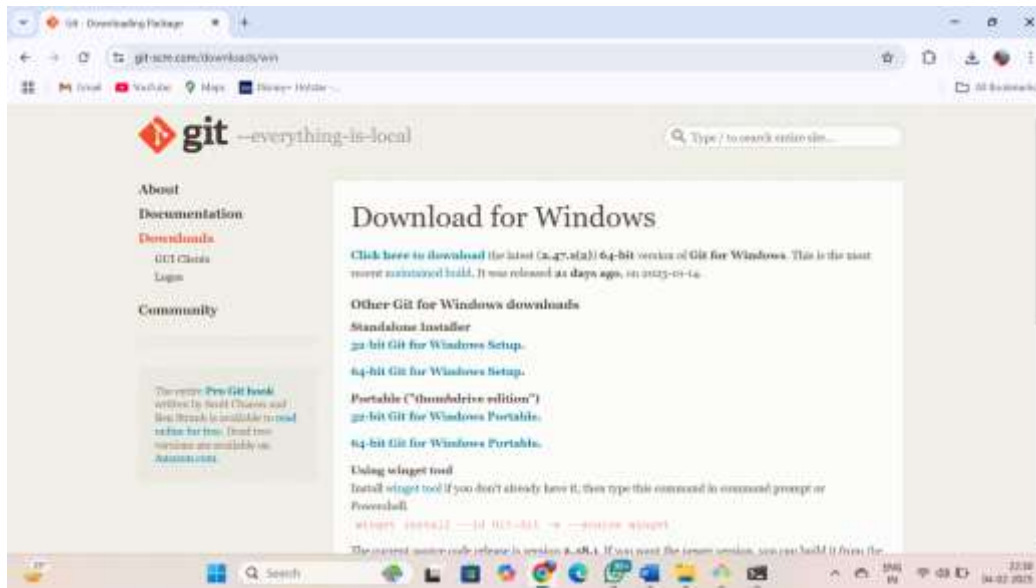
PRACTICAL NO 1

INSTALLATION OF GIT

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Download for Windows

[Click here to download](#) the latest (**2.47.1(2)**) **64-bit** version of **Git for Windows**. This is the most recent [maintained build](#). It was released **21 days ago**, on 2025-01-14.



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```
C:\Users\sraja\Desktop\DEVOPS>dir
Volume in drive C is OS
Volume Serial Number is 20B1-997C

Directory of C:\Users\sraja\Desktop\DEVOPS

11-02-2025  09:13    <DIR>          .
11-02-2025  08:48    <DIR>          ..
11-02-2025  08:49                0 EG1.txt
                1 File(s)                0 bytes
                2 Dir(s)  59,850,678,272 bytes free
```

```
C:\Users\sraja\Desktop\DEVOPS>git init
Initialized empty Git repository in C:/Users/sraja/Desktop/DEVOPS/.git/
```

```
C:\Users\sraja\Desktop\DEVOPS>git config --global user.name srajankotian37
```

```
C:\Users\sraja\Desktop\DEVOPS>git config --global user.email srajankotian37@gmail.com
```

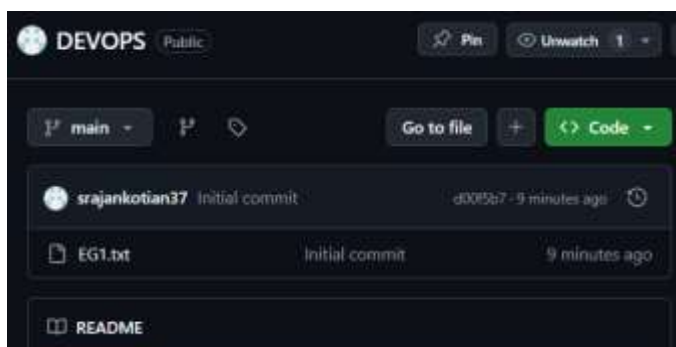
```
C:\Users\sraja\Desktop\DEVOPS>git config --list --global
user.email=srajankotian37@gmail.com
user.name=srajankotian37
```

```
C:\Users\sraja\Desktop\DEVOPS>git add .
```

```
C:\Users\sraja\Desktop\DEVOPS>git status
On branch master
```

```
C:\Users\sraja\Desktop\DEVOPS>git remote add origin https://github.com/srajankotian37/DEVOPS.git
```

```
C:\Users\sraja\Desktop\DEVOPS>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 210 bytes | 210.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/srajankotian37/DEVOPS.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```



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```
D:\DEVOPS>git add eg2.txt
```

```
D:\DEVOPS>git commit -m "Added eg2.txt"
[feature-signup ba23f72] Added eg2.txt
 4 files changed, 1 insertion(+), 1 deletion(-)
 delete mode 100644 eg1.py
 create mode 100644 eg2.txt
 delete mode 100644 ~$t Installation PRAC1.docx
```

```
D:\DEVOPS>git commit -m "Reapplying local changes"
On branch feature-signup
nothing to commit, working tree clean
```

```
D:\DEVOPS>git push --force origin master
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/aartipatel0810/aarti038.git
 + b7ae406...2fbcff4 master -> master (forced update)
```

```
D:\DEVOPS>git push origin feature-branch
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 12 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (9/9), 9.14 KiB | 624.00 KiB/s, done.
Total 9 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 2 local objects.
remote:
remote: Create a pull request for 'feature-branch' on GitHub by visiting:
remote:   https://github.com/aartipatel0810/aarti038/pull/new/feature-branch
remote:
To https://github.com/aartipatel0810/aarti038.git
 * [new branch]   feature-branch -> feature-branch
```

```
D:\DEVOPS>git merge feature-branch
Updating 2fbcff4..32b5fd1
Fast-forward
 Git Installation PRAC1.docx | Bin 661198 -> 661233 bytes
 eg1.py                     | 1 -
 eg2.txt                    | 4 ++++
 ~$t Installation PRAC1.docx | Bin 162 -> 0 bytes
 4 files changed, 4 insertions(+), 1 deletion(-)
 delete mode 100644 eg1.py
 create mode 100644 eg2.txt
 delete mode 100644 ~$t Installation PRAC1.docx
```

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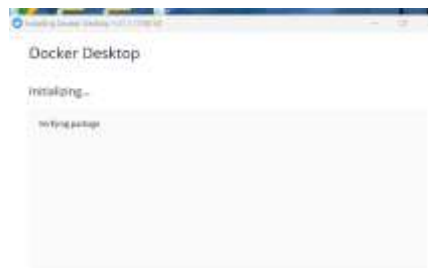
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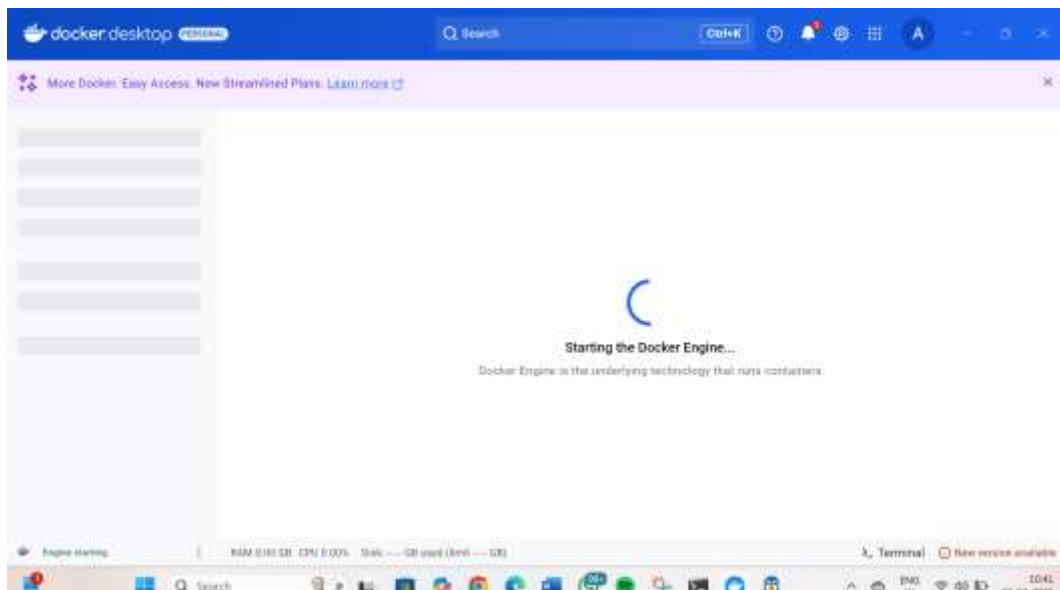
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```
C:\WINDOWS\system32\wsl.exe
Windows Subsystem for Linux must be updated to the latest version to proceed. You can update by running 'wsl.exe --update'.
For more information please visit https://aka.ms/wslinstall

Press any key to install Windows Subsystem for Linux.
Press CTRL-C or close this window to cancel.
This prompt will time out in 60 seconds.
Downloading: Windows Subsystem for Linux 2.4.10
Installing: Windows Subsystem for Linux 2.4.10
Windows Subsystem for Linux 2.4.10 has been installed.
The operation completed successfully.
Checking for updates.
The most recent version of Windows Subsystem for Linux is already installed.
Press any key to exit...
```

```
C:\Users\sraja\Desktop\DEVOPS>docker --version
Docker version 27.4.0, build bde2b89
```



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```
C:\Users\sraja\Desktop\DEVOPS>docker --version
Docker version 27.4.0, build bde2b89
```

```
C:\Users\sraja\Desktop\DEVOPS>docker info
Client:
Version:      27.4.0
Context:      desktop-linux
Debug Mode:   false
Plugins:
ai: Ask Gordon - Docker Agent (Docker Inc.)
  Version:    v0.5.1
  Path:       C:\Program Files\Docker\cli-plugins\docker-ai.exe
buildx: Docker Buildx (Docker Inc.)
  Version:    v0.19.2-desktop.1
  Path:       C:\Program Files\Docker\cli-plugins\docker-buildx.exe
compose: Docker Compose (Docker Inc.)
  Version:    v2.31.0-desktop.2
  Path:       C:\Program Files\Docker\cli-plugins\docker-compose.exe
debug: Get a shell into any image or container (Docker Inc.)
  Version:    0.0.37
  Path:       C:\Program Files\Docker\cli-plugins\docker-debug.exe
desktop: Docker Desktop commands (Beta) (Docker Inc.)
```

```
C:\Users\sraja\Desktop\DEVOPS>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED          STATUS
PORTS          NAMES
d941e4dc6625   ubuntu    "/bin/bash"             3 minutes ago   Exited (0) 33 seconds ago
crazy_black
```

```
C:\Users\sraja\Desktop\DEVOPS>docker stop d941e4dc6625
d941e4dc6625
```

```
C:\Users\sraja\Desktop\DEVOPS>docker rm d941e4dc6625
d941e4dc6625
```

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Working with python in Docker

```
PS C:\Users\sraja\Desktop\SK DOC> docker build -t pycode .  
[+] Building 16.1s (8/8) FINISHED  
=> [internal] load build definition from Dockerfile  
=> => transferring dockerfile: 317B  
=> [internal] load metadata for docker.io/library/python:3.9-slim  
=> [internal] load .dockerignore  
=> => transferring context: 2B
```

```
PS C:\Users\sraja\Desktop\SK DOC> docker run -it pycode  
Enter first number: 2  
Enter second number: 5  
ADD 7  
SUB -3  
DIV 0.4  
MUL 10
```

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Working with java in Docker

```
PS C:\Users\sraja\Desktop\SK DOC> docker build -t javaeg .  
[+] Building 4.0s (9/9) FINISHED  
=> [internal] load build definition from Dockerfile  
=> => transferring dockerfile: 309B  
=> [internal] load metadata for docker.io/library/openjdk:latest
```

```
PS C:\Users\sraja\Desktop\SK DOC> docker run -it javaeg  
Enter your name:  
srajan kotian  
Your Name : srajan kotian  
PS C:\Users\sraja\Desktop\SK DOC>
```

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Working with node js in Docker

Dockerfile

```
FROM node:22
WORKDIR /app
COPY display.js ./
CMD ["node", "display.js"]
```

Output:

```
PS C:\Users\sraja\Desktop\SK DOC> docker build -t node .
[+] Building 20.8s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 397B
=> [internal] load metadata for docker.io/library/node:22
=> [internal] load .dockerignore
=> => transferring context: 2B
```

```
PS C:\Users\sraja\Desktop\SK DOC> docker run -it node
PS C:\Users\sraja\Desktop\SK DOC> 
```

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Dockerfile

```
FROM php:7.4-apache
WORKDIR ./app/www/html
EXPOSE 80
```

Output:

```
PS C:\Users\sraja\Desktop\SK DOC> docker build -t php .
[+] Building 28.9s (6/6) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 375B
=> [internal] load metadata for docker.io/library/php:7.4-apache
=> [internal] load .dockerignore
=> => transferring context: 2B
```

```
PS C:\Users\sraja\Desktop\SK DOC> docker run -d -p 8080:80 php
```

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