

# Copy of GitLab Basics

Gitlab is primarily a GUI(graphical user interface) web platform

Ex: <https://gitlab.com/rp009/python-first>

username- rp009

password - priya123

- **Issues:** Track bugs and tasks
- **CI/CD:** Automate build, test, and deploy
- **Wiki:** Project documentation
- **Project Boards:** Kanban-style task tracking
- **Permissions:** Manage collaborators

1.	Create a gitlab account - <a href="https://gitlab.com/rp009/python-first">https://gitlab.com/rp009/python-first</a>
2.	<p>Create a New Project (Repository)</p> <div><p><b>Create blank project</b></p><p>Create a blank project to store your files, plan your work, and collaborate on code, among other things.</p><p>Project name <input type="text" value="python first"/></p><p>Must start with a lowercase or uppercase letter, digit, emoji, or underscore. Can also contain dots, pluses, dashes, or spaces.</p><p>Project URL <input type="text" value="https://gitlab.com/"/> Pick a group or namespace <input type="button" value="▼"/> / <input type="text" value="python-first"/></p><p>Project deployment target (optional) <input type="button" value="Select the deployment target"/></p><p>Visibility Level <input checked="" type="radio"/> Private Project access must be granted explicitly to each user. If this project is part of a group, access is granted to members of the group. <input type="radio"/> Internal <input checked="" type="radio"/> The project can be accessed by any logged in user except external users. <input type="radio"/> Public <input checked="" type="radio"/> The project can be accessed without any authentication.</p><p>Project Configuration</p><p><input checked="" type="checkbox"/> Initialize repository with a README Allows you to immediately clone this project's repository. Skip this if you plan to push up an existing repository.</p><p><input type="checkbox"/> Enable Static Application Security Testing (SAST) Analyze your source code for known security vulnerabilities. <a href="#">Learn more</a>.</p><p><input type="checkbox"/> Enable Secret Detection Scan your code for secrets and credentials to prevent unauthorized access. <a href="#">Learn more</a>.</p><p><a href="#">Experimental settings</a></p><p><input type="button" value="Create project"/> <input type="button" value="Cancel"/></p></div>
3.	Install Git on Your Local Machine - sudo apt-get install git (for debian/ubuntu)

```
peafowl@peafowl-OptiPlex-3060:~$ git --version  
git version 2.25.1
```

4. Clone Your GitLab Repository . Go to your GitLab project page and copy the **HTTPS** or **SSH** URL. Ex: <https://gitlab.com/rp009/python-first>

```
peafowl@peafowl-OptiPlex-3060:~/gitlearning$ git clone https://gitlab.com/rp009/python-first  
Cloning into 'python-first'...  
Username for 'https://gitlab.com': rp009  
Password for 'https://rp009@gitlab.com':  
warning: redirecting to https://gitlab.com/rp009/python-first.git/  
remote: Enumerating objects: 3, done.  
remote: Counting objects: 100% (3/3), done.  
remote: Compressing objects: 100% (2/2), done.  
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)  
Unpacking objects: 100% (3/3), 2.73 KiB | 1.37 MiB/s, done.  
peafowl@peafowl-OptiPlex-3060:~/gitlearning$ ls  
python-first  
peafowl@peafowl-OptiPlex-3060:~/gitlearning$ cd python-first/  
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ ls  
README.md
```

5. Check git status  
From the below it showing upto date means not changes added or deleted

```
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git status  
On branch main  
Your branch is up to date with 'origin/main'.  
  
nothing to commit, working tree clean
```

6. Open README.md file and make any changes. then add that changed file and check the status of it.

```
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git status  
On branch main  
Your branch is up to date with 'origin/main'.  
  
Changes not staged for commit:  
  (use "git add <file>..." to update what will be committed)  
    (use "git restore <file>..." to discard changes in working directory)  
      modified:   README.md  
  
no changes added to commit (use "git add" and/or "git commit -a")  
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git add README.md  
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git status  
On branch main  
Your branch is up to date with 'origin/main'.  
  
Changes to be committed:  
  (use "git restore --staged <file>..." to unstage)  
    modified:   README.md
```

7. Commit the changes , Here it's showing no global configuration list.

```

peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git commit -m "Readmefile modified"
*** Please tell me who you are.

Run

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

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'peafowl@peafowl-OptiPlex-3060.(none)')
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git config --global "

```

8. Give the user email and name as per below and then commit . Check the commit is done or not.

```

peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git config --global user.email "rp009"
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git config --global user.name "priya123"
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git commit -m "Readmefile modified"
[main 7408566] Readmefile modified
 1 file changed, 1 insertion(+), 1 deletion(-)
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git log
commit 7408566988e70faf8bdab9e9e19cbabc6b5ffd81 (HEAD -> main)
Author: priya123 <rp009>
Date:   Mon Sep 15 10:59:12 2025 +0530

  Readmefile modified

commit 3e685901630411777b317127509f9fcfd21592688 (origin/main, origin/HEAD)
Author: lakshmi priya <lp305729@gmail.com>
Date:   Tue Sep 9 10:37:02 2025 +0000

  Initial commit

```

9. check config list.

```

peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git config --global --list
user.email=rp009
user.name=priya123
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ 

```

10. Push Changes to GitLab and take if want pull (same command we use instead of push use pull)

```

peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git push origin
Username for 'https://gitlab.com': rp009
Password for 'https://rp009@gitlab.com':
warning: redirecting to https://gitlab.com/rp009/python-first.git/
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 295 bytes | 295.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
To https://gitlab.com/rp009/python-first
  3e68590..7408566  main -> main
peafowl@peafowl-OptiPlex-3060:~/gitlearning/python-first$ git log

```

11. At last after push in gitlab URL

python-first

Readmefile modified  
priya123 authored 26 minutes ago

74085669 ⌂ History

Name	Last commit	Last update
README.md	Readmefile modified	26 minutes ago
README.md		

click the press on readmefile modified and check the deleted / added changes.

### README file changes -1

-o parent 74085669

Branches main

No related tags found

No related merge requests found

Changes 1

Showing 1 changed file ▾ with 4 additions and 0 deletions

Hide whitespace changes | Inline | Side-by-side

+4 -0 ⌂ View file @ 8c6c7a71

...	...	@@ -2,6 +2,10 @@
2	2	
3	3	
4	4	## lakshmipriya
5		+ ##
6		+ ##
7		+ ##
8		+ ## lakshman,poojitha
5	9	## Getting started
6	10	
7	11	To make it easy for you to get started with GitLab, here's a list of recommended next steps.
...	...	