DevOps Laboratory

Submitted To Partial Fulfilment Of The Requirement For The Award Of Degree Of Bachelor Of Technology Information Technology



GNDEC LOGO

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Install GIT

To download the Git installer, visit the Git's official site and go to download page. The link for the download page is https://git-scm.com/downloads. The page looks like as:-



1.1



Create account on GITHUB

- 1. Go to https://github.com/join in a web browser. You can use any web browser on your computer, phone, or tablet to join. Some ad blockers, including uBlock ...
- 2. Enter your personal details. In addition to creating a username and entering an email address, you'll also have to create a password. Your password must be ...
 - 3. Click the green Create an account button. It's below the form.



2.1

Git supports a command called git config that lets you get and set configuration variables that control all facets of how Git looks and operates.

It is used to set Git configuration values on a global or local project level. Setting user.name and user.Email are the necessary configuration options as your name and email will show up in your commit messages.

Setting username

The username is used by the Git for each commit. 1.gitconfig - -globaluser.name" MayankMishra" ToSetemailid

The Gituses this email idfore a ch commit.

2. git config –global user.email "mayankmishrareal@gmail.com"

```
Mayank Mishra@DESKTOP-22E3PML MINGW64 ~ (master)
$ git config --global user.name "Mayank Mishra"

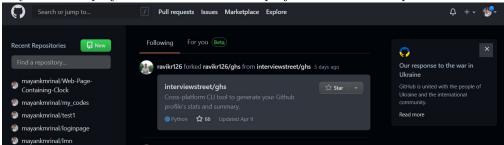
Mayank Mishra@DESKTOP-22E3PML MINGW64 ~ (master)
$ git config --global user.email "mayankmishrareal@gmail.com"
```

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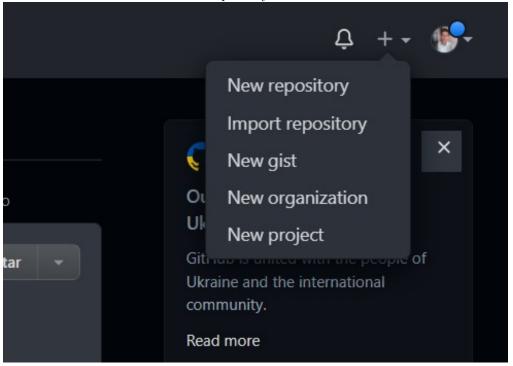
Create Repository using GIT/ GITHUB

Repository contains the collection of the files as well as the history of changes made to those files. Repository in Git is considered as your project folder. A reposi-

tory has all the project-related data. Distinct projects have distinct repositories.

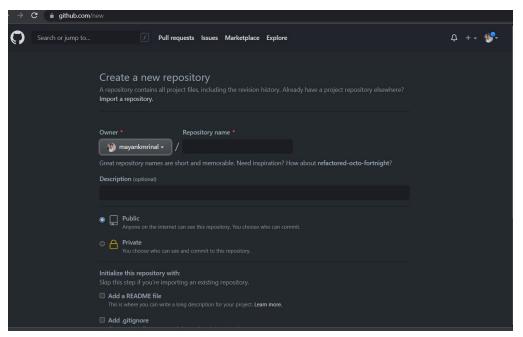


3.1 Click On New Repository



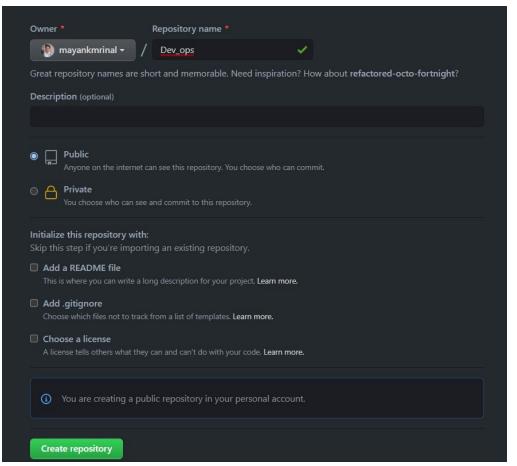
3.2

Under Repository name fill repository name, which we wish to create.

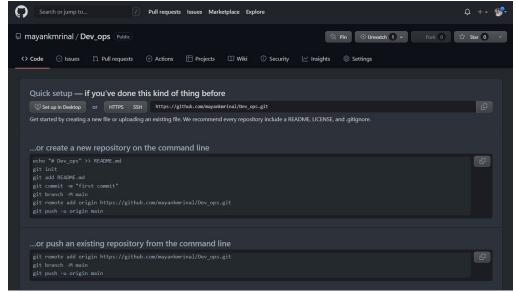


3.3

Choose option as public before creating repository, if we wish make it visible to world else private if personal file is there. Click on green button create repository to create repository.



3.4 Repository Created



3.5

Create/Delete/Merge Branches

Create Branch

We can create a new branch with the help of the git branch command. gitbranch < branchname >

Mayank Mishra@DESKTOP-22E3PML MINGW64 ~ (master) \$ git branch alpha

4.1

Delete Branches

You can delete the specified branch. It is a safe operation.

In this command, Git prevents you from deleting the branch if it has unmerged changes.

gitbranch - d < branchname >

Mayank Mishra@DESKTOP-22E3PML MINGW64 ~ (master)
\$ git branch -d alpha

4.2

Merge Branch

Git allows us to merge the other branch with the currently active branch. We can

merge two branches with the help of git merge command. Below command is used to

merge the branches:

gitpushorigin-delete < branchname >

Mayank Mishra@DESKTOP-22E3PML MINGW64 ~ (master) **\$** git merge alpha

4.3

5 Installation Of Docker

5.1 Step are as:-

Download Docker.

Double-click Install Docker. \dots

Follow the Install Wizard: accept the license, authorize the installer, and proceed with the install.

Click Finish to launch Docker.

Docker starts automatically.

Docker loads a "Welcome" window giving you tips and access to the Docker documentation.

5.2 Creating Container

To create Container

docker container run -i -t -name cl alpine ash

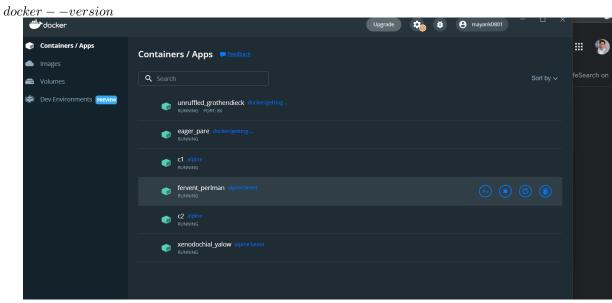
To start our container

dockerrun

To check container is created or not

docker container ls

To check version



5.1

5.3 Downloading Images

To check image is created or not docker image ls Command used for downloading Images:-docker image pull alpine Command used to upload Images:-docker image push alpine

