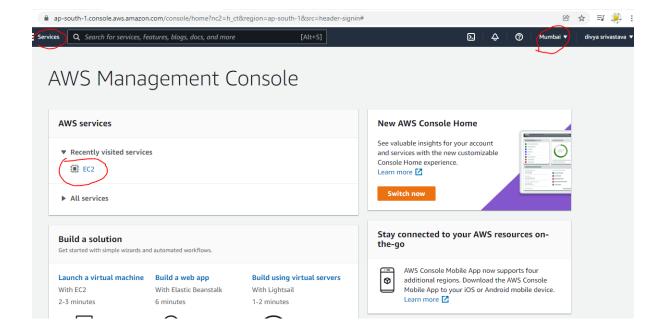
Course- BTech/BCA/B.Sc: (B.Tech) Type- Core/Elective (Elective) Course Code- ECSE460L Course Name: DevOps Engineering **Practices** Year- III (VI Sem) Semester- Even/Odd (Even) Date- 24-01-2022 Batch-B1-B14 A- Type- Lab Assignment (Week 1, Lab 1) **Objectives:** Create two EC-2 instance (Mumbai region) **Update Virtual linux machine** Install GIT on virtual linux **GIT Commands** 1) sudo su 2) yum update -y 3) yum install git -y 4) get -version 5) get config -global user.name "" 6) get congif - globl user.email "" Theoretical Background (To be discussed): 30 mins: Creation of ec-2 instance: Ec2-instance Mumbai:

1) Creation of Linux instance on AWS

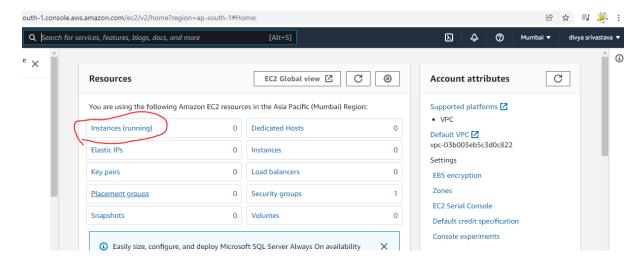
(20)

Create an account on AWS Learner Lab:

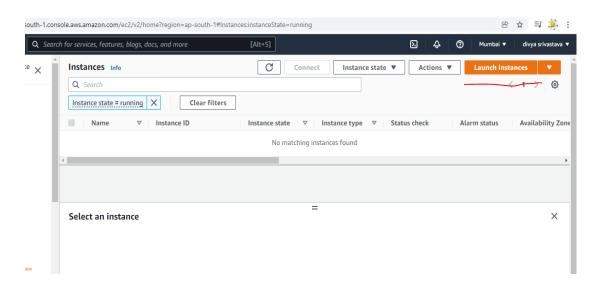
- a) Login as I am user
- b) After AWS Management Console screen comes follow the following steps:



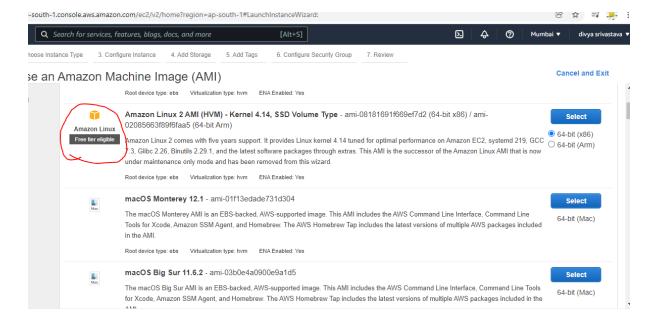
#### **Services-> EC2**



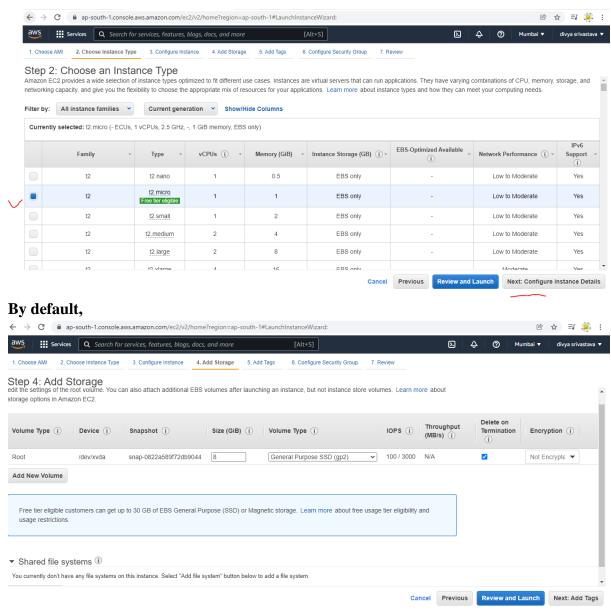
#### **Instances running**

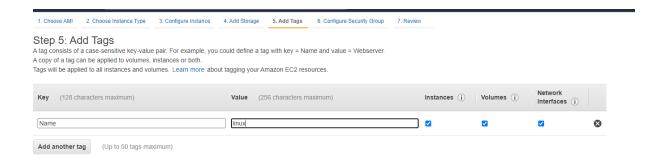


**Launch Instances** 

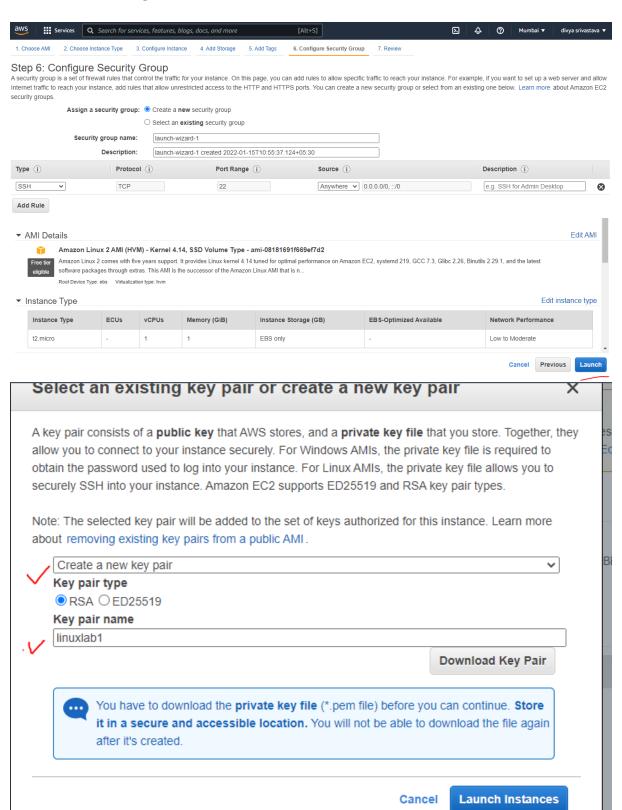


### **Select: Amazon Linux 2 AMI**

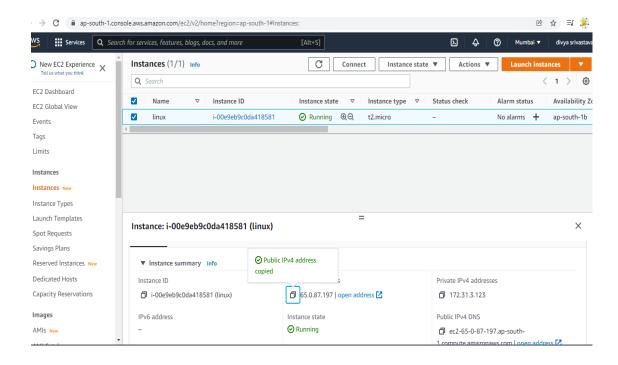




#### Add: Name and Tag



## \*Note: Download the key pair here only else it will not be available later



# **Copy the IP Address (Public IP)**

# **Putty and Putty Gen:**

(15)

- a) Download Putty and puttygen
- b) Open puttygen on your desktop and load the key pair generated by AWS EC2 instance.
- c) Open putty to create a private key to connect AWS and putty by doing as follows:

SSH->Auth-> <paste the IP address> and download the private key

Once this is done Linux terminal gets open:

```
Login as: ec2-user
```

(30)

```
Authenticating with public key "imported-openssh-key"
                      Amazon Linux 2 AMI
11 tcps://aws.amazon.com/amazon/linux 2/

11 package(s) needed for security, out of 15 available

Run "sudo yum update" to apply all updates.

[ec2-user@ip-172-31-24-118 ~]$ sudo su

[root@ip-172-31-24-118 ec2-user]# yum update -y
oaded plugins: extras suggestions, langpacks, priorities, update-motd
amzn2-core
Resolving Dependencies
 -> Running transaction check
 --> Package ca-certificates.noarch 0:2021.2.50-72.amzn2.0.1 will be updated
 --> Package ca-certificates.noarch 0:2021.2.50-72.amzn2.0.2 will be an update
 --> Package cloud-utils-growpart.noarch 0:0.31-2.amzn2 will be updated
 --> Package cloud-utils-growpart.noarch 0:0.31-3.amzn2 will be an update --> Package dracut.x86_64 0:033-535.amzn2.1.4 will be updated
 --> Package dracut.x86 64 0:033-535.amzn2.1.5 will be an update
 --> Package dracut-config-generic.x86_64 0:033-535.amzn2.1.4 will be updated --> Package dracut-config-generic.x86_64 0:033-535.amzn2.1.5 will be an update
 --> Package glibc.x86 64 0:2.26-56.amzn2 will be updated
 --> Package glibc.x86 64 0:2.26-57.amzn2 will be an update
 [root@ip-172-31-24-118 ec2-user]# yum install git -y
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Resolving Dependencies
 -> Running transaction check
 --> Package git.x86 64 0:2.32.0-1.amzn2.0.1 will be installed
 -> Processing Dependency: perl-Git = 2.32.0-1.amzn2.0.1 for package: git-2.32.0-1.amzn2.0.1.x86
 -> Processing Dependency: git-core-doc = 2.32.0-1.amzn2.0.1 for package: git-2.32.0-1.amzn2.0.1
 .x86 64
 -> Processing Dependency: git-core = 2.32.0-1.amzn2.0.1 for package: git-2.32.0-1.amzn2.0.1.x86
 -> Processing Dependency: emacs-filesystem >= 27.1 for package: git-2.32.0-1.amzn2.0.1.x86_64
-> Processing Dependency: perl(Term::ReadKey) for package: git-2.32.0-1.amzn2.0.1.x86_64
 --> Processing Dependency: perl(Git::I18N) for package: git-2.32.0-1.amzn2.0.1.x86_64
--> Processing Dependency: perl(Git) for package: git-2.32.0-1.amzn2.0.1.x86_64
 -> Running transaction check
 --> Package emacs-filesystem.noarch 1:27.2-4.amzn2.0.1 will be installed
 --> Package git-core.x86 64 0:2.32.0-1.amzn2.0.1 will be installed
 --> Package git-core-doc_noarch 0:2.32.0-1.amzn2.0.1 will be installed
 --> Package perl-Git.noarch 0:2.32.0-1.amzn2.0.1 will be installed
 -> Processing Dependency: perl(Error) for package: perl-Git-2.32.0-1.amzn2.0.1.noarch
 --> Package perl-TermReadKey.x86 64 0:2.30-20.amzn2.0.2 will be installed
 -> Running transaction check
 --> Package perl-Error.noarch 1:0.17020-2.amzn2 will be installed
oot@ip-172-31-24-118:/home/ec2-user
                                                                                                               ð
[root@ip-172-31-24-118 ec2-user]# which git
/bin/git
[root@ip-172-31-24-118 ec2-user]# git --version 👡
[root@ip-172-31-24-118 ec2-user]# git config --global user.name "Divya" 🗸
 [root@ip-172-31-24-118 ec2-user]# git config --global user.email "divya.srivastava@bennett.edu.i
[root@ip-172-31-24-118 ec2-user]# git --list
unknown option: --list
usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]
              [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
              [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
              [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
              [--super-prefix=<path>] [--config-env=<name>=<envvar>]
             <command> [<args>]
 [root@ip-172-31-24-118 ec2-user]# git config --list
user.name=Divya
user.email=divya.srivastava@bennett.edu.in
 [root@ip-172-31-24-118 ec2-user]#
```

# **GIT for Desktop**

## **Objective:**

- 1) Git Desktop Installation
- 2) Create repository on Desktop
- 3) Create repository online
- 4) Clone the repository online to desktop
- 5) Clone repository Git Desktop to online

#### Git Desktop

GitHub Desktop is an application that enables you to interact with GitHub using a GUI instead of the command line or a web browser.

## **OS** supported

The following operating systems are supported for GitHub Desktop.

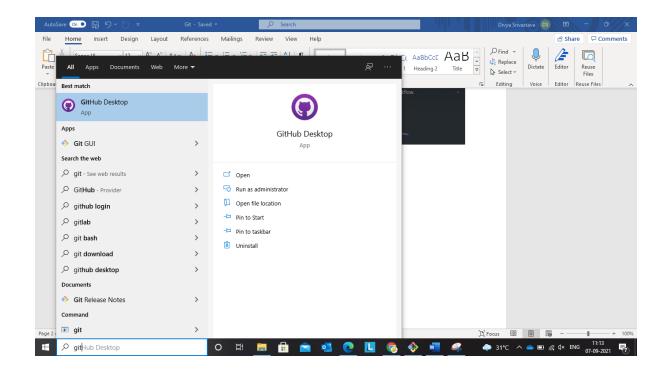
- macOS 10.10 or later
- Windows 7 64-bit or later. You must have a 64-bit operating system to run GitHub Desktop.

# **Download Git For Desktop:**

www.desktop.github.com



- 2) Run the setup file
- 3) Click on the icon in your app:



 $4) \ Register\ your\ Id\ on\ Git\ to\ create\ an\ account:\ https://github.com/signup?source=login$ 

```
Welcome to GitHub!

Let's begin the adventure

Enter your email

✓ divya.srivastava@bennett.edu.in

Create a password

✓ ••••••

Enter a username

✓ Divyabennett

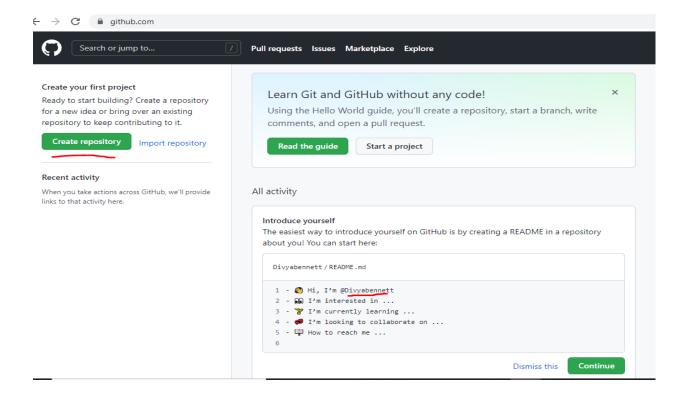
Would you like to receive product updates and announcements via email?

Type "y" for yes or "n" for no

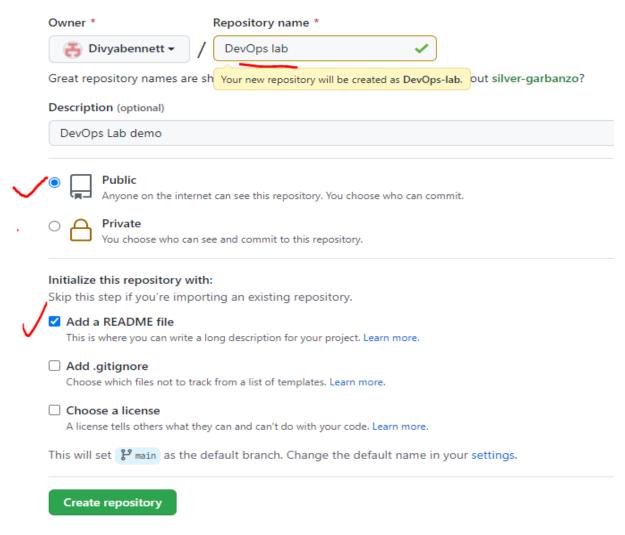
→ n

Continue
```

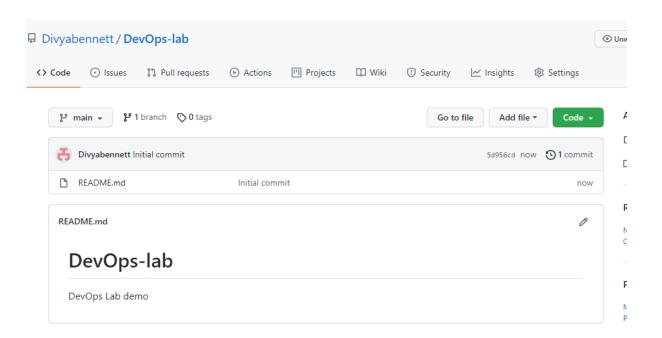
# **Repository Creation**



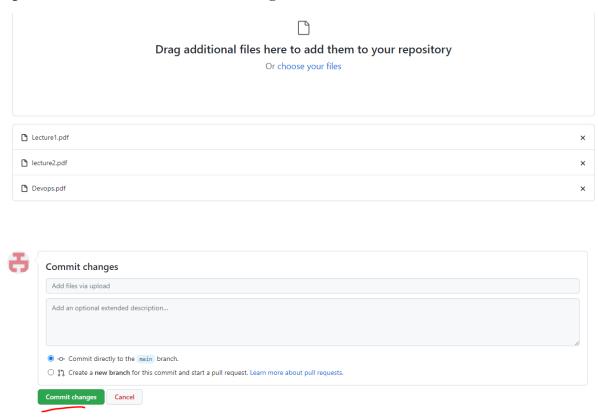
#### Click on create repository:



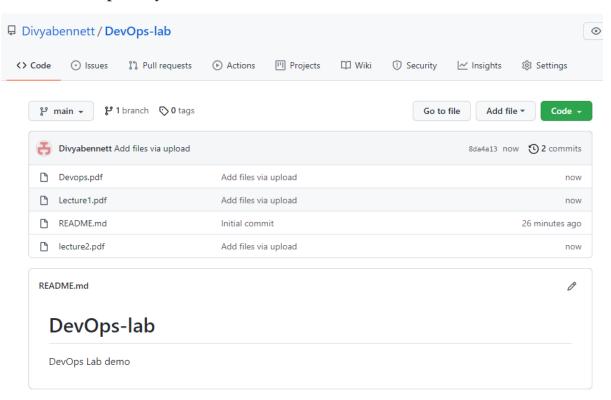
# Repository is created as:



# Upload some files and commit the changes



# Final view of repository:



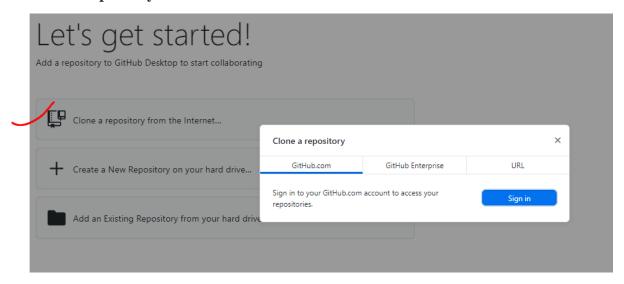
Open Git Desktop on your local system

# Let's get started!

Add a repository to GitHub Desktop to start collaborating

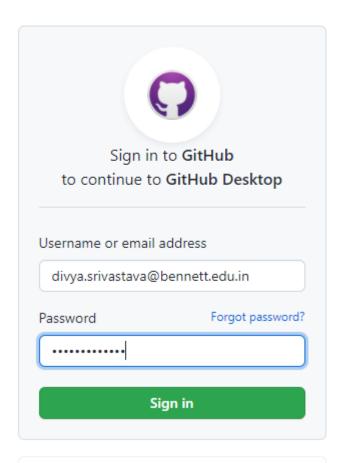


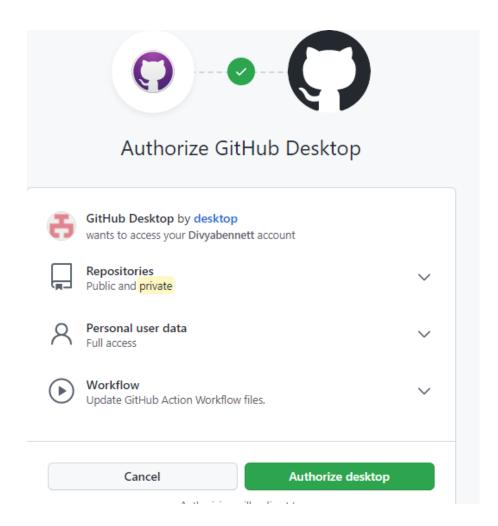
### To clone a repository from Internet:



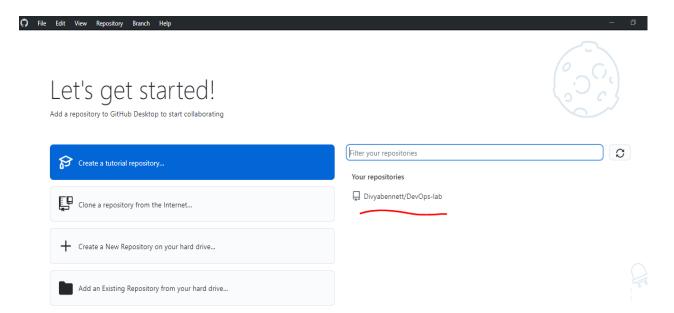
# Sign In:



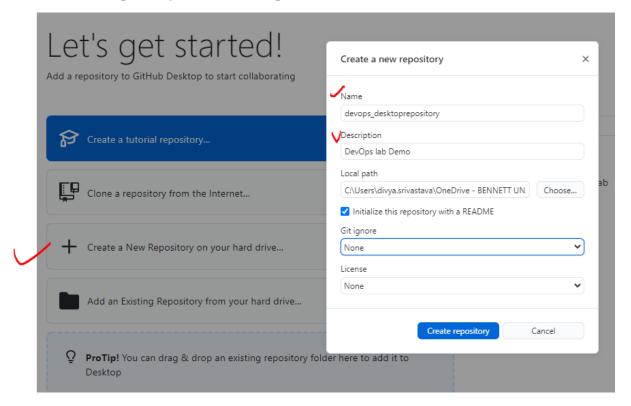




Repository (Online) has been cloned on Git Desktop

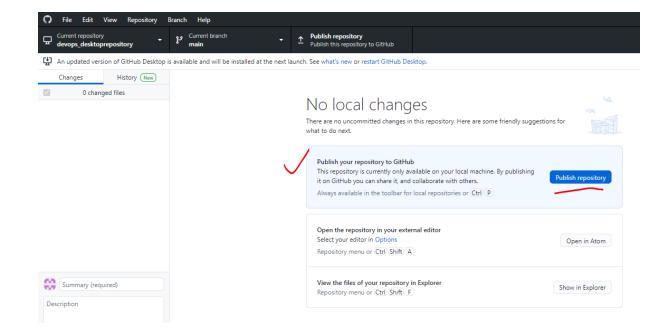


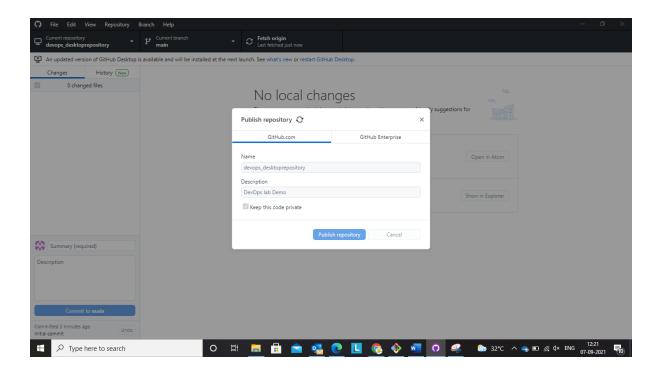
### **Create a new repository on Git Desktop:**



This repository is initially available on your local system only.

### To publish it:





The repository created on Git Desktop is reflected online as well

