

EXPERMINT: 03

● **Aim:** Practice Source code management on GitHub. Experiment with the source code written in exercise 1.

● **Output:**

Mumbai

```
ec2-user@ip-172-31-40-226:~
login as: ec2-user
Authenticating with public key "Mumbai-Key-pair"

#_
~~\#####
~~\#####
~~\###|
~~\#/_
~~V~'-'>
~~
~~_
~~_/_m/'

[ec2-user@ip-172-31-40-226 ~]$
```

```
[root@ip-172-31-40-226 ec2-user]# yum install git -y
Last metadata expiration check: 0:08:04 ago on Sun Sep 3 09:16:47 2023.
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
Installing:				
git	x86_64	2.40.1-1.amzn2023.0.1	amazonlinux	57 k
Installing dependencies:				
git-core	x86_64	2.40.1-1.amzn2023.0.1	amazonlinux	4.3 M
git-core-doc	noarch	2.40.1-1.amzn2023.0.1	amazonlinux	2.6 M
perl-Error	noarch	1:0.17029-5.amzn2023.0.2	amazonlinux	41 k
perl-File-Find	noarch	1.37-477.amzn2023.0.5	amazonlinux	26 k
perl-Git	noarch	2.40.1-1.amzn2023.0.1	amazonlinux	45 k
perl-TermReadKey	x86_64	2.38-9.amzn2023.0.2	amazonlinux	36 k
perl-lib	x86_64	0.65-477.amzn2023.0.5	amazonlinux	15 k

```
Transaction Summary
Install 8 Packages
```

```
Total download size: 7.1 M
```

```
Installed size: 34 M
```

```
Downloading Packages:
```

(1/8): git-2.40.1-1.amzn2023.0.1.x86_64.rpm	882 kB/s 57 kB	00:00
(2/8): perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64.rpm	530 kB/s 36 kB	00:00
(3/8): perl-lib-0.65-477.amzn2023.0.5.x86_64.rpm	1.1 MB/s 15 kB	00:00
(4/8): perl-File-Find-1.37-477.amzn2023.0.5.noarch.rpm	1.7 MB/s 26 kB	00:00
(5/8): perl-Error-1:0.17029-5.amzn2023.0.2.noarch.rpm	2.7 MB/s 41 kB	00:00
(6/8): git-core-doc-2.40.1-1.amzn2023.0.1.noarch.rpm	45 MB/s 2.6 MB	00:00
(7/8): perl-Git-2.40.1-1.amzn2023.0.1.noarch.rpm	1.1 MB/s 45 kB	00:00
(8/8): git-core-2.40.1-1.amzn2023.0.1.x86_64.rpm	17 MB/s 4.3 MB	00:00

```
Total
```

```
Running transaction check
```

```
Transaction check succeeded.
```

```
Running transaction test
```

```
Transaction test succeeded.
```

```
Running transaction
```

Preparing	:		1/1
Installing	:	git-core-2.40.1-1.amzn2023.0.1.x86_64	1/8
Installing	:	git-core-doc-2.40.1-1.amzn2023.0.1.noarch	2/8
Installing	:	perl-Error-1:0.17029-5.amzn2023.0.2.noarch	3/8
Installing	:	perl-File-Find-1.37-477.amzn2023.0.5.noarch	4/8
Installing	:	perl-lib-0.65-477.amzn2023.0.5.x86_64	5/8
Installing	:	perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64	6/8
Installing	:	perl-Git-2.40.1-1.amzn2023.0.1.noarch	7/8
Installing	:	git-2.40.1-1.amzn2023.0.1.x86_64	8/8
Running scriptlet:	:	git-2.40.1-1.amzn2023.0.1.x86_64	1/8
Verifying	:	git-2.40.1-1.amzn2023.0.1.x86_64	1/8
Verifying	:	perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64	2/8
Verifying	:	git-core-2.40.1-1.amzn2023.0.1.x86_64	3/8
Verifying	:	perl-lib-0.65-477.amzn2023.0.5.x86_64	4/8
Verifying	:	perl-File-Find-1.37-477.amzn2023.0.5.noarch	5/8
Verifying	:	git-core-doc-2.40.1-1.amzn2023.0.1.noarch	6/8
Verifying	:	perl-Error-1:0.17029-5.amzn2023.0.2.noarch	7/8
Verifying	:	perl-Git-2.40.1-1.amzn2023.0.1.noarch	8/8

```
Installed:
```

git-2.40.1-1.amzn2023.0.1.x86_64	git-core-2.40.1-1.amzn2023.0.1.x86_64	git-core-doc-2.40.1-1.amzn2023.0.1.noarch
perl-Error-1:0.17029-5.amzn2023.0.2.noarch	perl-File-Find-1.37-477.amzn2023.0.5.noarch	perl-Git-2.40.1-1.amzn2023.0.1.noarch
perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64	perl-lib-0.65-477.amzn2023.0.5.x86_64	

```
Complete!
```

```
[root@ip-172-31-40-226 ec2-user]#
```

```
[root@ip-172-31-40-226 ec2-user]# which git
/usr/bin/git
[root@ip-172-31-40-226 ec2-user]#
```

```
[root@ip-172-31-40-226 ec2-user]# git --version
git version 2.40.1
[root@ip-172-31-40-226 ec2-user]#
```

```
root@ip-172-31-40-226:/home/ec2-user
[root@ip-172-31-40-226 ec2-user]# which git
/usr/bin/git
[root@ip-172-31-40-226 ec2-user]# git --version
git version 2.40.1
[root@ip-172-31-40-226 ec2-user]# git config --global user.name "Priyush02K"
[root@ip-172-31-40-226 ec2-user]# git config --global user.email "collegeinfopk02@gmail.com"
[root@ip-172-31-40-226 ec2-user]# git config -- list
error: key does not contain a section: list
[root@ip-172-31-40-226 ec2-user]# git config --list
user.name=Priyush02K
user.email=collegeinfopk02@gmail.com
[root@ip-172-31-40-226 ec2-user]#
```

ⓘ We noticed that you didn't select a key pair. If you want to be able to connect to your instance it is recommended that you create one.

☒ Create new key pair

☐ Proceed without key pair

Key pair name

Key pairs allow you to connect to your instance securely.

Singapore-key-pair

The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA

RSA encrypted private and public key pair

☐ ED25519

ED25519 encrypted private and public key pair

Private key file format

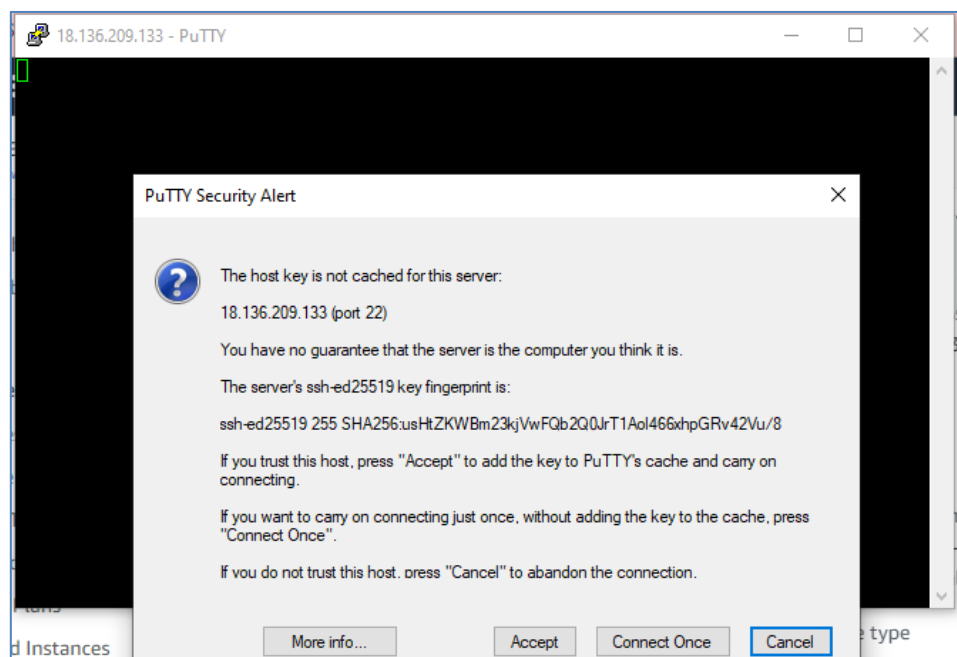
☐ .pem

For use with OpenSSH

☒ .ppk

Cancel

Create key pair





```
login as: ec2-user
Authenticating with public key "Singapore-key-pair"

#
~\##### Amazon Linux 2023
~~~\#####\
~~~~\####|
~~~~\#/ https://aws.amazon.com/linux/amazon-linux-2023
~~~~V'-'>
~~~~
~~~~
~~~~
~~~~
~/m/'-/
```

```
[ec2-user@ip-172-31-20-215 ~]$ sudo su
[root@ip-172-31-20-215 ec2-user]# yum update -y
Last metadata expiration check: 0:04:29 ago on Sun Sep 3 09:39:04 2023.
Dependencies resolved.
Nothing to do.
Complete!
```

```
Last login: Sun Sep 3 10:20:48 2023 from 49.36.96.161
[ec2-user@ip-172-31-40-226 ~]$ git show
fatal: not a git repository (or any of the parent directories): .git
[ec2-user@ip-172-31-40-226 ~]$ sudo su
[root@ip-172-31-40-226 ec2-user]# ls
mumbaigit
[root@ip-172-31-40-226 ec2-user]# git log
fatal: not a git repository (or any of the parent directories): .git
[root@ip-172-31-40-226 ec2-user]# cd mumbaigit
[root@ip-172-31-40-226 mumbaigit]# git init
Reinitialized existing Git repository in /home/ec2-user/mumbaigit/.git/
[root@ip-172-31-40-226 mumbaigit]# git status
On branch master
nothing to commit, working tree clean
[root@ip-172-31-40-226 mumbaigit]# cat >mumbaif
Priyush B Khobragade
[root@ip-172-31-40-226 mumbaigit]# git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    mumbaif

nothing added to commit but untracked files present (use "git add" to track)
[root@ip-172-31-40-226 mumbaigit]# git commit -m "Done"
git: 'commit' is not a git command. See 'git --help'.
```

```
nothing added to commit but untracked files present (use "git add" to track)
[root@ip-172-31-40-226 mumbaigit]# git add .
[root@ip-172-31-40-226 mumbaigit]# git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   mumbaif

[root@ip-172-31-40-226 mumbaigit]# git commit -m "Done"
[master db29842] Done
 1 file changed, 1 insertion(+)
 create mode 100644 mumbaif
[root@ip-172-31-40-226 mumbaigit]# git log
commit db29842eb636e3b6485b04778e2bf3f0ee8e7a9c (HEAD -> master)
Author: Priyush02K <collegeinfopk02@gmail.com>
Date:   Sun Sep 3 10:35:01 2023 +0000

    Done

commit 46a4442bfd852e29d30fdfld87bd7d64637cd5f6
Author: Priyush02K <collegeinfopk02@gmail.com>
Date:   Sun Sep 3 10:25:53 2023 +0000

    My first Commit

[root@ip-172-31-40-226 mumbaigit]# git show 46a4442bfd
commit 46a4442bfd852e29d30fdfld87bd7d64637cd5f6
Author: Priyush02K <collegeinfopk02@gmail.com>
Date:   Sun Sep 3 10:25:53 2023 +0000

    My first Commit
```

```
[root@ip-172-31-40-226 mumbaigit]# git commit -m "done2"
[main 8baa3d0] done2
1 file changed, 1 insertion(+)
create mode 100644 mumbaiif
[root@ip-172-31-40-226 mumbaigit]# git status
On branch main
nothing to commit, working tree clean
[root@ip-172-31-40-226 mumbaigit]# git log
commit 8baa3d0b1bf5f104b7048bb10057a65eb9ed19b6 (HEAD -> main)
Author: Priyush02K <collegeinfoapk02@gmail.com>
Date: Sun Sep 3 11:10:00 2023 +0000

    done2

commit afaee64fd5b80752c95b5fbae236e5718clb2a3c
Author: Priyush02K <collegeinfoapk02@gmail.com>
Date: Sun Sep 3 11:00:22 2023 +0000

    first commit

commit db29842eb636e3b6485b04778e2bf3f0ee8e7a9c
Author: Priyush02K <collegeinfoapk02@gmail.com>
Date: Sun Sep 3 10:35:01 2023 +0000

    Done

commit 46a4442bfd852e29d30fdfl87bd7d64637cd5f6
Author: Priyush02K <collegeinfoapk02@gmail.com>
Date: Sun Sep 3 10:25:53 2023 +0000
```

```
login as: ec2-user
Authenticating with public key "Singapore-key-pair"

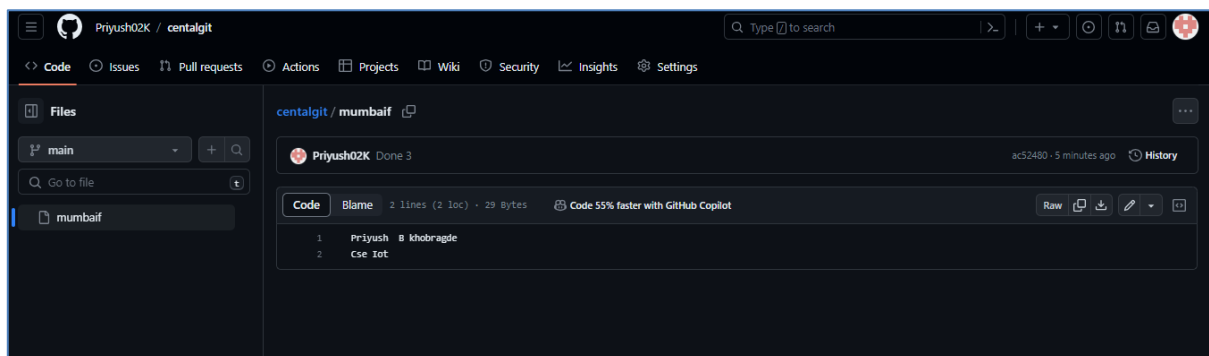
#
###
~\
\###\
~\
\#|
~\
V- ->
~\
~\
Last login: Sun Sep 3 09:42:34 2023 from 49.36.96.161
[ec2-user@ip-172-31-20-215 ~]$ sudo su
[root@ip-172-31-20-215 ec2-user]# mkdir sigaporegit
bash: mkdir: command not found
[root@ip-172-31-20-215 ec2-user]# mkdir sigaporegit
[root@ip-172-31-20-215 ec2-user]# ls
sigaporegit
[root@ip-172-31-20-215 ec2-user]# cd sigaporegit/
bash: cd: command not found
[root@ip-172-31-20-215 ec2-user]# cd sigaporegit
[root@ip-172-31-20-215 sigaporegit]# git init
hint: Using 'master' as the name for the initial branch. This default branch nam
e
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ec2-user/sigaporegit/.git/
[root@ip-172-31-20-215 sigaporegit]# git ls -a
git: 'ls' is not a git command. See 'git --help'.

The most similar command is
log
[root@ip-172-31-20-215 sigaporegit]# ls -a
.  ..  .git
```

```
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
       new file:   mumbai
       new file:   mumbaif

[root@ip-172-31-20-215 sigaporegit]# git commit -m "Done3"
[master (root-commit) b0eb88b] Done3
 2 files changed, 1 insertion(+)
 create mode 100644 mumbai
 create mode 100644 mumbaif
[root@ip-172-31-20-215 sigaporegit]# git status
On branch master
nothing to commit, working tree clean
[root@ip-172-31-20-215 sigaporegit]# git log
commit b0eb88ba06b350dlb907eff8257c2fd6dc51cf9e (HEAD -> master)
Author: Hardik <hardik12@gmail.com>
Date:   Sun Sep 3 11:31:53 2023 +0000

    Done3
```



● Conclusion:

source code management on GitHub is a critical and highly effective practice for modern software development. GitHub provides a robust platform for collaboration, version control, and project management, making it an indispensable tool for individuals, teams, and organizations of all sizes.