

Objectives

Familiar with Git commands like git init, git status, git add, git commit, git push, and git pull.

In this hands-on lab, you will learn how to

- Setup your machine with Git Configuration
- Integrate notepad++.exe to Git and make it a default editor
- Add a file to source code repository

```
MINGW64/c/Users/2318397
ln: failed to create symbolic link '/etc/mtab': Permission denied
'C:\Windows\system32\drivers\etc\hosts' -> '/etc/hosts'
/usr/bin/cp: cannot create regular file '/etc/hosts': Permission denied
'C:\Windows\system32\drivers\etc\protocol' -> '/etc/protocols'
/usr/bin/cp: cannot create regular file '/etc/protocols': Permission denied
'C:\Windows\system32\drivers\etc\services' -> '/etc/services'
/usr/bin/cp: cannot create regular file '/etc/services': Permission denied
'C:\Windows\system32\drivers\etc\networks' -> '/etc/networks'
/usr/bin/cp: cannot create regular file '/etc/networks': Permission denied
rm: cannot remove '/etc/post-install/01-devices.post': Permission denied
rm: cannot remove '/etc/post-install/03-mtab.post': Permission denied
rm: cannot remove '/etc/post-install/06-windows-files.post': Permission denied
rm: cannot remove '/etc/post-install/99-post-install-cleanup.post': Permission d
enied

CTS+2318397@LTIN486407 MINGW64 ~
$ git version
git version 2.37.3.windows.1

CTS+2318397@LTIN486407 MINGW64 ~
$ git config --global
error: key does not contain a section: global

CTS+2318397@LTIN486407 MINGW64 ~
$ git config --global user.name "dilip"

CTS+2318397@LTIN486407 MINGW64 ~
$ git config --global user.email "dilipsharma29102001@gmail.com"

CTS+2318397@LTIN486407 MINGW64 ~
$ git config --global --list
fatal: not in a git directory

CTS+2318397@LTIN486407 MINGW64 ~
$ git config --global --list
user.name=dilip
user.email=dilipsharma29102001@gmail.com

CTS+2318397@LTIN486407 MINGW64 ~
$ notepad++
bash: notepad++: command not found

CTS+2318397@LTIN486407 MINGW64 ~
$ |
```

```
MINGW64/
CTS+2318397@LTIN486407 MINGW64 /
$ git config --global --list
user.name=dilip
user.email=dilipsharma29102001@gmail.com

CTS+2318397@LTIN486407 MINGW64 /
$ notepad++

CTS+2318397@LTIN486407 MINGW64 /
$ notepad++ bash -profile

CTS+2318397@LTIN486407 MINGW64 /
$ notepad++.exe bash -profile

CTS+2318397@LTIN486407 MINGW64 /
$ cd ..

CTS+2318397@LTIN486407 MINGW64 /
$ pwd
/

CTS+2318397@LTIN486407 MINGW64 /
$ ls
LICENSE.txt      cmd/  git-bash.exe*  proc/      unins000.exe*
ReleaseNotes.html dev/  git-cmd.exe*   tmp/       unins000.msg
bin/            etc/  mingw64/      unins000.dat  usr/

CTS+2318397@LTIN486407 MINGW64 /
$ cd usr/

CTS+2318397@LTIN486407 MINGW64 /usr
$ cd ..

CTS+2318397@LTIN486407 MINGW64 /
$ cd ..

CTS+2318397@LTIN486407 MINGW64 /
$ ls -al
total 5064
drwxr-xr-x 1 CTS+2318397 4096 0 Jan 9 10:33 ./
drwxr-xr-x 1 CTS+2318397 4096 0 Jan 9 10:33 ../
-rw-r--r-- 1 CTS+2318397 4096 18765 Aug 30 2022 LICENSE.txt
-rw-r--r-- 1 CTS+2318397 4096 226956 Aug 30 2022 ReleaseNotes.html
drwxr-xr-x 1 CTS+2318397 4096 0 Jan 9 10:33 bin/
drwxr-xr-x 1 CTS+2318397 4096 0 Jan 9 10:33 cmd/
drwxr-xr-x 1 CTS+2318397 4096 0 Jan 9 10:33 dev/
drwxr-xr-x 1 CTS+2318397 4096 0 Jan 9 10:33 etc/
```

```
MINGW64/
$ cd ..

CTS+2318397@LTIN486407 MINGW64 /
$ pwd

CTS+2318397@LTIN486407 MINGW64 /
$ ls
LICENSE.txt      cmd/  git-bash.exe*  proc/      unins000.exe
ReleaseNotes.html dev/  git-cmd.exe*   tmp/       unins000.msg
bin/             mingw64/  unins000.dat  usr/

CTS+2318397@LTIN486407 MINGW64 /
$ cd usr/

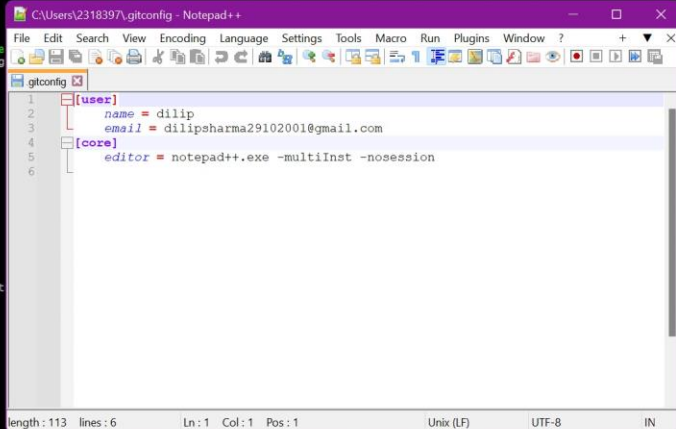
CTS+2318397@LTIN486407 MINGW64 /usr
$ cd ..

CTS+2318397@LTIN486407 MINGW64 /
$ cd ..

CTS+2318397@LTIN486407 MINGW64 /
$ ls -al
total 5064
drwxr-xr-x 1 CTS+2318397 4096    0 Jan  9 10:33 ./
drwxr-xr-x 1 CTS+2318397 4096    0 Jan  9 10:33 ../
-rw-r--r-- 1 CTS+2318397 4096 18765 Aug 30 2022 LICENSE.txt
-rw-r--r-- 1 CTS+2318397 4096 226956 Aug 30 2022 ReleaseNotes.ht
drwxr-xr-x 1 CTS+2318397 4096    0 Jan  9 10:33 bin/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan  9 10:33 cmd/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan  9 10:33 dev/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan  9 10:33 etc/
-rwxr-xr-x 1 CTS+2318397 4096 137776 Aug 30 2022 git-bash.exe*
-rwxr-xr-x 1 CTS+2318397 4096 137264 Aug 30 2022 git-cmd.exe*
drwxr-xr-x 1 CTS+2318397 4096    0 Jan  9 10:31 mingw64/
dr-xr-xr-x 9 CTS+2318397 4096    0 Jan 18 19:56 proc/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan 18 19:56 tmp/
-rw-r--r-- 1 CTS+2318397 4096 1256544 Jan  9 10:33 unins000.dat
-rwxr-xr-x 1 CTS+2318397 4096 3212176 Jan  9 10:13 unins000.exe*
-rw-r--r-- 1 CTS+2318397 4096 24183 Jan  9 10:33 unins000.msg
drwxr-xr-x 1 CTS+2318397 4096    0 Jan  9 10:33 usr/

CTS+2318397@LTIN486407 MINGW64 /
$ git config --global core.editor "notepad++.exe -multiInst -nosession"

CTS+2318397@LTIN486407 MINGW64 /
$ git config --global -e
hint: Waiting for your editor to close the file...
```



```
MINGW64/c/Users/2318397

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ git init GitDemo
Initialized empty Git repository in c:/Users/2318397/GitDemo/.git/

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ ls -al
total 7655
drwxr-xr-x 1 CTS+2318397 4096    0 Jan 18 20:34 ./
drwxr-xr-x 1 CTS+2318397 4096    0 Dec 20 11:51 ../
-rw-r--r-- 1 CTS+2318397 4096 1237 Jan 18 20:31 .bash_history
drwxr-xr-x 1 CTS+2318397 4096    0 Jan 10 21:20 .cache/
drwxr-xr-x 1 CTS+2318397 4096    0 Dec 21 22:13 .cisco/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan 10 21:20 .eclipse/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan 18 20:33 .git/
-rw-r--r-- 1 CTS+2318397 4096 113 Jan 18 20:00 .gitconfig
-rw-r--r-- 1 CTS+2318397 4096 20 Jan 18 19:51 .lessht
drwxr-xr-x 1 CTS+2318397 4096    0 Dec 23 00:00 .ms-ad/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan 10 21:20 .p2/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan  9 12:04 .vscode/
drwxr-xr-x 1 CTS+2318397 4096    0 Dec 20 11:51 AppData/
lrwxrwxrwx 1 CTS+2318397 4096 32 Dec 20 11:51 'Application Data' -> /c/User
s/2318397/AppData/Roaming/
drwxr-xr-x 1 CTS+2318397 4096    0 Dec 20 11:51 Contacts/
lrwxrwxrwx 1 CTS+2318397 4096 60 Dec 20 11:51 Cookies -> /c/Users/2318397/
AppData/Local/Microsoft/Windows/INetCookies/
drwxr-xr-x 1 CTS+2318397 4096    0 Dec 20 12:17 Documents/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan 18 19:49 Downloads/
drwxr-xr-x 1 CTS+2318397 4096    0 Dec 20 11:51 Favorites/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan 18 20:34 GitDemo/
drwxr-xr-x 1 CTS+2318397 4096    0 Dec 20 11:51 Links/
lrwxrwxrwx 1 CTS+2318397 4096 30 Dec 20 11:51 'Local Settings' -> /c/Users/
2318397/AppData/Local/
drwxr-xr-x 1 CTS+2318397 4096    0 Dec 20 11:51 Music/
lrwxrwxrwx 1 CTS+2318397 4096 26 Dec 20 11:51 'My Documents' -> /c/Users/23
18397/Documents/
-rw-r--r-- 1 CTS+2318397 4096 4456448 Jan 18 17:58 NTUSER.DAT
-rw-r--r-- 1 CTS+2318397 4096 65536 Dec 20 11:51 NTUSER.DAT{731fff93-45f9-11e
e-9ef4-c85ea922f988}.TM.bif
-rw-r--r-- 1 CTS+2318397 4096 524288 Dec 20 11:51 NTUSER.DAT{731fff93-45f9-11e
e-9ef4-c85ea922f988}.TM.Container00000000000000000001.regtrans-ms
-rw-r--r-- 1 CTS+2318397 4096 524288 Dec 20 11:51 NTUSER.DAT{731fff93-45f9-11e
e-9ef4-c85ea922f988}.TM.Container00000000000000000002.regtrans-ms
lrwxrwxrwx 1 CTS+2318397 4096 68 Dec 20 11:51 NetHood -> /c/Users/2318397
/AppData/Roaming/Microsoft/Windows/Network Shortcuts/
drwxr-xr-x 1 CTS+2318397 4096    0 Jan 18 19:19 'OneDrive - Cognizant/'
lrwxrwxrwx 1 CTS+2318397 4096 68 Dec 20 11:51 PrintHood -> /c/Users/23183
97/AppData/Roaming/Microsoft/windows/Printer Shortcuts/
```

```
MINGW64/c/Users/2318397
-PW-r--r-- 1 CTS+2318397 4096    31 Jan 18 20:37  welcome.txt

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ cat welcome.txt
Welcome to the version Control

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ git status
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Documents/My Music/': Permission denied
warning: could not open directory 'Documents/My Pictures/': Permission denied
warning: could not open directory 'Documents/My Videos/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'Nethood/': Permission denied
warning: could not open directory 'Printhood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied
On branch master
changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    cusergit/dilip.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .bash_history
        .cache/
        .class/
        .eclipse/
        .gitconfig
        .lessshst
        .ipz/
        .vscode/
        AppData/
        Contacts/
        Downloads/
        Favorites/
        GitDemo/
        Links/
        Music/
        NTUSER.DAT
        NTUSER.DAT[731ffff93-45f9-11ee-9ef4-c85ea922f988].TM.blf
        NTUSER.DAT[731ffff93-45f9-11ee-9ef4-c85ea922f988].TM.Container0000000000000000
0001.regtrans-ms
```

```
MINGW64/c/Users/2318397
-PW-r--r-- 1 CTS+2318397 4096    31 Jan 18 20:37  welcome.txt

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ cat welcome.txt
Welcome to the version Control

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ git status
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Documents/My Music/': Permission denied
warning: could not open directory 'Documents/My Pictures/': Permission denied
warning: could not open directory 'Documents/My Videos/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'Nethood/': Permission denied
warning: could not open directory 'Printhood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied

MINGW64/c/Users/2318397
eclipse/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini
welcome.txt

no changes added to commit (use "git add" and/or "git commit -a")

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ git add welcome.txt

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ git commit
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Documents/My Music/': Permission denied
warning: could not open directory 'Documents/My Pictures/': Permission denied
warning: could not open directory 'Documents/My Videos/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'Nethood/': Permission denied
warning: could not open directory 'Printhood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied
Aborting commit due to empty commit message.

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ git status
```

```
MINGW64/c/Users/2318397
-PW-r--r-- 1 CTS+2318397 4096    31 Jan 18 20:37  welcome.txt

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ cat welcome.txt
Welcome to the version Control

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ git status
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Documents/My Music/': Permission denied
warning: could not open directory 'Documents/My Pictures/': Permission denied
warning: could not open directory 'Documents/My Videos/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'NetHood/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ git commit -m "Adding welcome text file"
[master c277a99] Adding welcome text file
1 file changed, 1 insertion(+)
create mode 100644 welcome.txt

CTS+2318397@LTIN486407 MINGW64 ~ (master)
$ git status
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Documents/My Music/': Permission denied
warning: could not open directory 'Documents/My Pictures/': Permission denied
warning: could not open directory 'Documents/My Videos/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'NetHood/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    cusergit/dllip.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
```