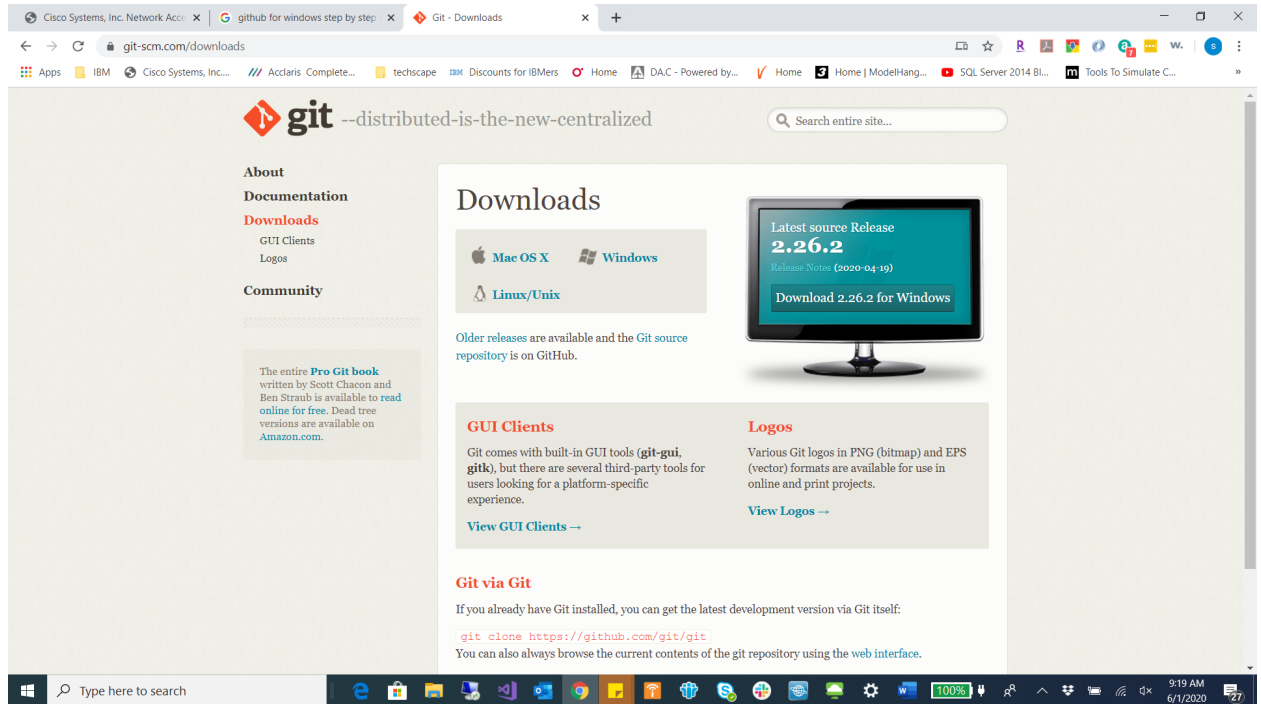


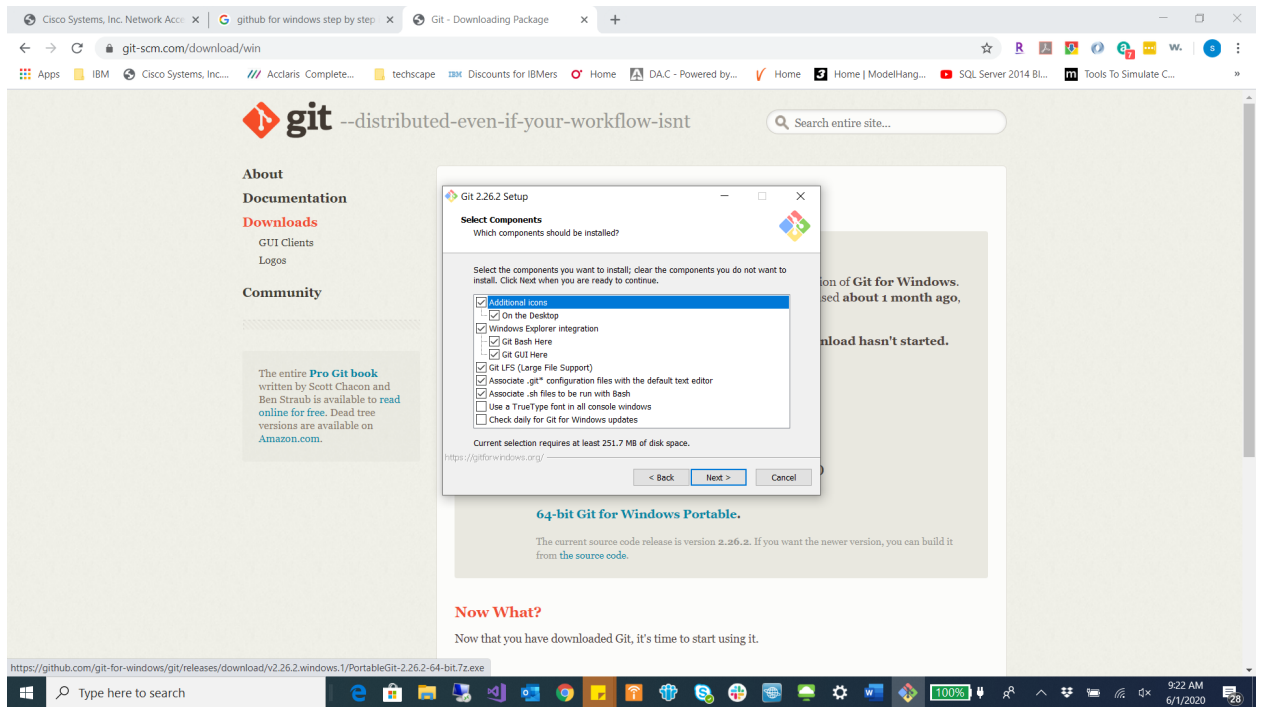
Installing GIT

1. <https://git-scm.com/downloads>

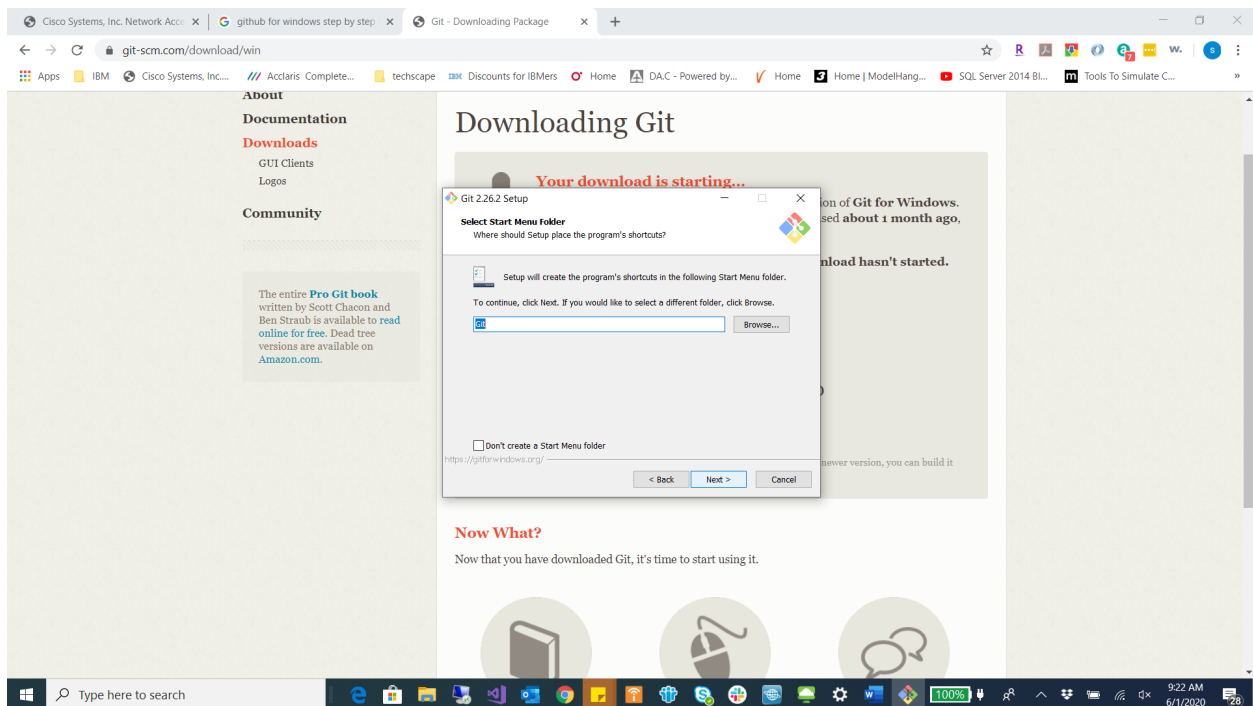
2.

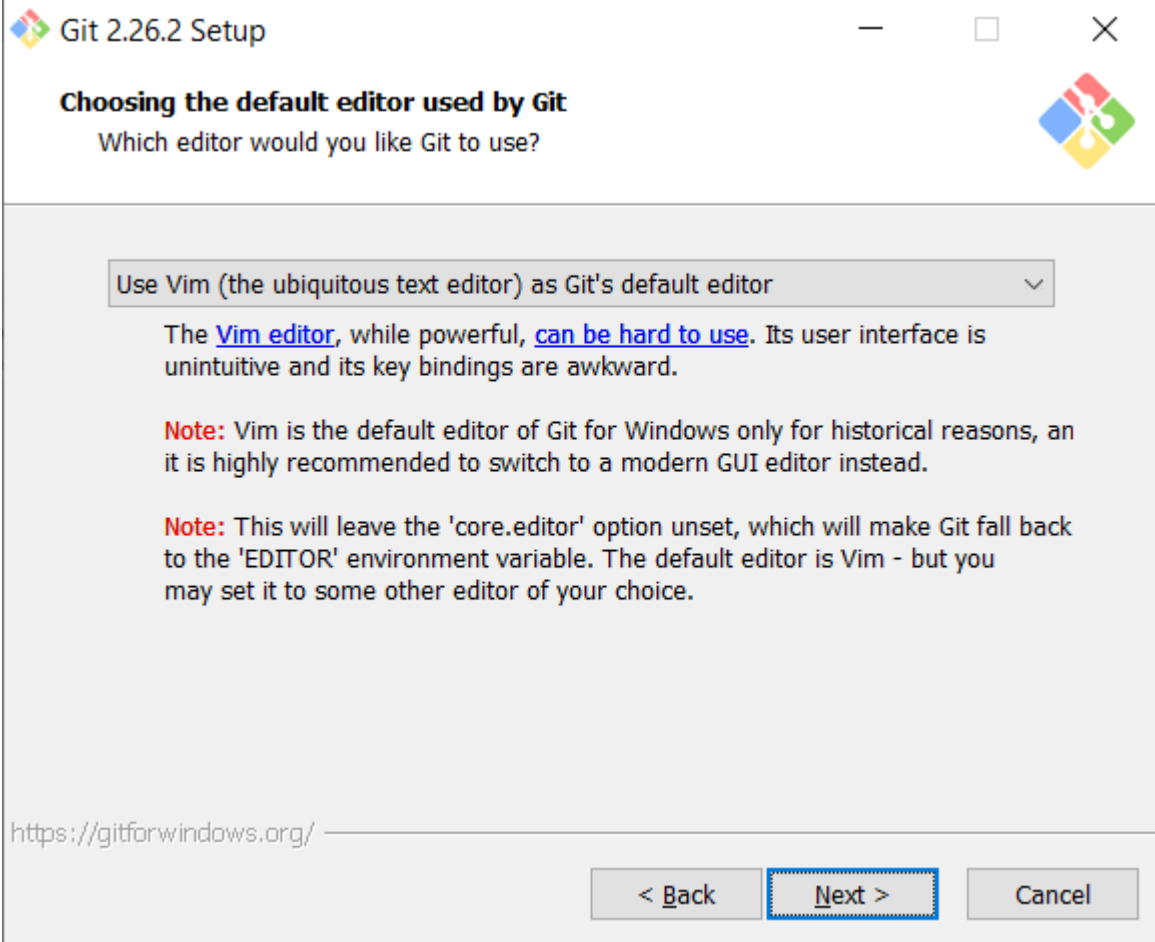



3. Open the downloaded file (choose Windows or mac os) based on the machine you have .
4. Then chose the 64 bit version or 32 bit version based on the Operating system
5. The file downloads starts. Open the file after the download has completed. It could be in your downloads folder



6. Hit Next





 Git 2.26.2 Setup

Adjusting your PATH environment

How would you like to use Git from the command line?

☐ Use Git from Git Bash only

This is the most cautious choice as your PATH will not be modified at all. You will only be able to use the Git command line tools from Git Bash.

☒ Git from the command line and also from 3rd-party software

(Recommended)

 This option adds only some minimal Git wrappers to your PATH to avoid cluttering your environment with optional Unix tools. You will be able to use Git from Git Bash, the Command Prompt and the Windows PowerShell as well as any third-party software looking for Git in PATH.

☐ Use Git and optional Unix tools from the Command Prompt

Both Git and the optional Unix tools will be added to your PATH.


Warning: This will override Windows tools like "find" and "sort". Only use this option if you understand the implications.

<https://gitforwindows.org/>


< Back

Next >

Cancel

 Git 2.26.2 Setup

— □ ×



Choosing HTTPS transport backend

Which SSL/TLS library would you like Git to use for HTTPS connections?

☒ **Use the OpenSSL library**

Server certificates will be validated using the ca-bundle.crt file.

☐ **Use the native Windows Secure Channel library**


Server certificates will be validated using Windows Certificate Stores.
This option also allows you to use your company's internal Root CA certificates distributed e.g. via Active Directory Domain Services.


<https://gitforwindows.org/>

< Back

Next >

Cancel

 Git 2.26.2 Setup

Configuring the line ending conversions
How should Git treat line endings in text files?

☐ **Checkout Windows-style, commit Unix-style line endings**
Git will convert LF to CRLF when checking out text files. When committing text files, CRLF will be converted to LF. For cross-platform projects, this is the recommended setting on Windows ("core.autocrlf" is set to "true").

☒ **Checkout as-is, commit Unix-style line endings**
Git will not perform any conversion when checking out text files. When committing text files, CRLF will be converted to LF. For cross-platform projects, this is the recommended setting on Unix ("core.autocrlf" is set to "input").

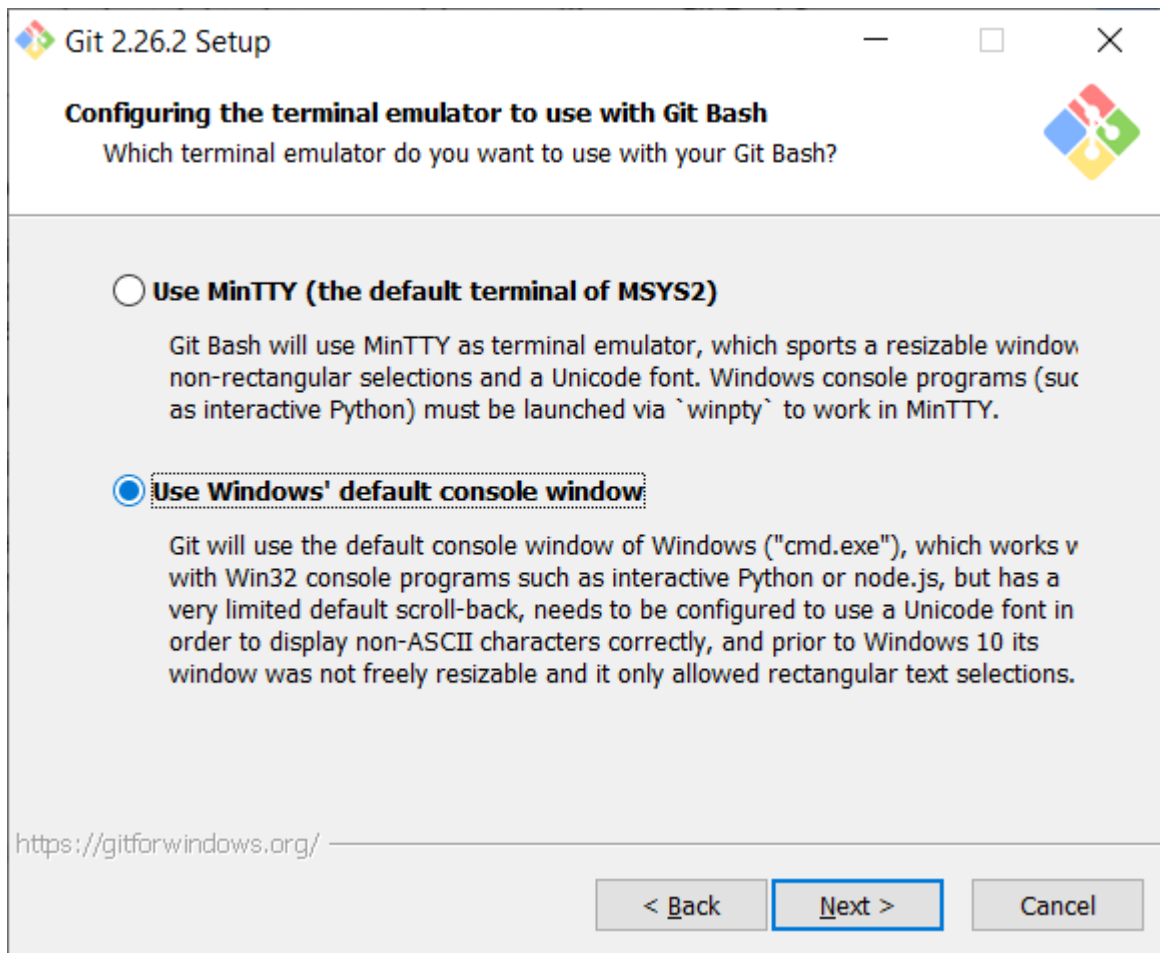
☐ **Checkout as-is, commit as-is**
Git will not perform any conversions when checking out or committing text files. Choosing this option is not recommended for cross-platform projects ("core.autocrlf" is set to "false").

<https://gitforwindows.org/>

< Back

Next >

Cancel



Hit next and

Git 2.26.2 Setup

Configuring extra options

Which features would you like to enable?

☒ **Enable file system caching**

File system data will be read in bulk and cached in memory for certain operations ("core.fscache" is set to "true"). This provides a significant performance boost.

☒ **Enable Git Credential Manager**

The [Git Credential Manager for Windows](#) provides secure Git credential storage for Windows, most notably multi-factor authentication support for Visual Studio Team Services and GitHub. (requires .NET framework v4.5.1 or later).

☐ **Enable symbolic links**

Enable [symbolic links](#) (requires the SeCreateSymbolicLink permission). Please note that existing repositories are unaffected by this setting.

<https://gitforwindows.org/>

☐ Only show new options

< Back Next > Cancel

Hit next to Install

SSH KEYS

Generating SSH keys allows developers to interface with certain remote services without having to constantly type out login information. You're going to set up an SSH key for GitHub.

Without a key, you won't be able to push your code to GitHub without entering a password each time; trust us, that would be as irritating as needing a key to open every door in your home.

1. If you haven't signed up for a GitHub account yet, you'll need to do so before moving on with these steps. Visit <https://github.com>.

2. Open up Bash.

3. We need to set up SSH keys. First, let's make sure you don't already have a set of keys on your computer. Type this into your Bash window (copying and pasting will not work):

```
=> ls -al ~/.ssh
```

If no keys pop up, move onto step 4.

If keys do pop up, check that none of them are listed under `id_rsa`, like in this image:

If you do find a key with a matching name, then you can either overwrite it by following steps 4 to 6, or you can use the same key in steps 10 and beyond. Be advised that you'll have to remember the password tied to your key if you decide not to overwrite it.

4. Type in this command along with your email to generate your keys

```
ssh-keygen -t rsa -b 4096 -C "YOURGITHUBEMAIL@PLACEHOLDER.NET"
```

5. When asked to enter a file to save the key, just hit enter.

Also enter a passphrase for your key. Note: You shouldn't see any characters appear in the window while typing the password.

6. When you're finished, your window should look like this:

```
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ ls -al ~/.ssh  
ls: cannot access '~/.ssh': No such file or directory  
  
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ ls -al ~/.ssh  
ls: cannot access '/c/Users/ARINDAMMUKHERJEE/.ssh': No such file or directory  
  
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ cd /c/Users/ARINDAMMUKHERJEE  
  
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ ls -al ~/.ssh  
ls: cannot access '/c/Users/ARINDAMMUKHERJEE/.ssh': No such file or directory  
  
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ ssh-keygen -t rsa -b 4096 -C "arin_muk@hotmail.com"  
Bad escape character 'ygen'.  
  
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ ssh-keygen -t rsa -b 4096 -C "arin_muk@hotmail.com"  
Generating public/private rsa key pair.  
Enter file in which to save the key (/c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa): _
```

MINGW64:/c/Users/ARINDAMMUKHERJEE

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~

\$ ls -al ~/.ssh

ls: cannot access '~/.ssh': No such file or directory

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~

\$ ls -al ~/.ssh

ls: cannot access '/c/Users/ARINDAMMUKHERJEE/.ssh': No such file or directory

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~

\$ cd /c/Users/ARINDAMMUKHERJEE

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~

\$ ls -al ~/.ssh

ls: cannot access '/c/Users/ARINDAMMUKHERJEE/.ssh': No such file or directory

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~

\$ ssh-keygen -t rsa -b 4096 -C "arin_muk@hotmail.com"

Bad escape character 'ygen'.

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~

\$ ssh-keygen -t rsa -b 4096 -C "arin_muk@hotmail.com"

Generating public/private rsa key pair.

Enter file in which to save the key (/c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa):

Created directory '/c/Users/ARINDAMMUKHERJEE/.ssh'.

Enter passphrase (empty for no passphrase):

MINGW64:/c/Users/ARINDAMMUKHERJEE

```
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ ls -al ~/.ssh  
ls: cannot access '~/.ssh': No such file or directory  
  
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ ls -al ~/.ssh  
ls: cannot access '/c/Users/ARINDAMMUKHERJEE/.ssh': No such file or directory  
  
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ cd /c/Users/ARINDAMMUKHERJEE  
  
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ ls -al ~/.ssh  
ls: cannot access '/c/Users/ARINDAMMUKHERJEE/.ssh': No such file or directory  
  
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ ssh-keygen -t rsa -b 4096 -C "arin_muk@hotmail.com"  
Bad escape character 'ygen'.  
  
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~  
$ ssh-keygen -t rsa -b 4096 -C "arin_muk@hotmail.com"  
Generating public/private rsa key pair.  
Enter file in which to save the key (/c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa):  
Created directory '/c/Users/ARINDAMMUKHERJEE/.ssh'.  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:
```

```
MINGW64:/c/Users/ARINDAMMUKHERJEE
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh-keygen -t rsa -b 4096 -C "arin_muk@hotmail.com"
Bad escape character 'ygen'.

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh-keygen -t rsa -b 4096 -C "arin_muk@hotmail.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa):
Created directory '/c/Users/ARINDAMMUKHERJEE/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa
Your public key has been saved in /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:CZpK+7ud6jZtZk70FzWfGYW4HUvIuo/qZbqzVZBQ124 arin_muk@hotmail.com
The key's randomart image is:
+---[RSA 4096]---+
|      ...o.+      |
|      ..o× o      |
|      .  o= =      |
|      o .  .=.E    |
|      . o  $. =.+   |
|      . o      .+.  |
|      o  ..  .+o    |
|      .o= .o= . .   |
|      o×X×o×=       |
+-----[SHA256]-----+

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$
```

For the next step, we need to use a tool called ssh agent to link our key with our machine. Let's test whether ssh-agent is working. Run this command in Bash:

```
eval "$(ssh-agent -s)"
```

If your Bash window looks like the below image, move onto the next step.

MINGW64:/c/Users/ARINDAMMUKHERJEE

```
Created directory '/c/Users/ARINDAMMUKHERJEE/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa
Your public key has been saved in /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:CZpK+7ud6jZtZk70FzWfGYW4HUvIuo/qZbqzVZBQ124 arin_muk@hotmail.com
The key's randomart image is:
```

```
+---[RSA 4096]-----+
|    . . . o . +    |
|    . . o x o    |
|    . . o = =    |
|    o . . = . E    |
|    . o $ . = . +    |
|    . o . . . +    |
|    o . . . + o    |
|    . o = . o = . .    |
|    o x x o x =    |
+-----[SHA256]-----+
```

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~

```
$ eval "$(ssh-agent -s)"
bash: ssh-agent -s: command not found
```

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~

```
$ eval "$(ssh-agent -s)"
Agent pid 833
```

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~

```
$
```

```
MINGW64; c:/Users/ARINDAMMUKHERJEE
The key fingerprint is:
SHA256:CZpK+7ud6jZtZk70FzWfGYW4HUvIuo/qZbqzUzBQ124 arin_muk@hotmail.com
The key's randomart image is:
+---[RSA 4096]---+
|      . . . o . +      |
|      . . . o x o      |
|      . . . o = =      |
|      . . . o . = . E      |
|      . o . $ . = . +      |
|      . o . . . . +      |
|      o . . . . + o      |
|      . o = = . o = . .      |
|      o x X x o x =      |
+-----[SHA256]-----+

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ eval "$(ssh-agent -s)"
bash: ssh-agent -s: command not found

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ eval "$(ssh-agent -s)"
Agent pid 833

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh-add ~/.ssh/id_rsa
Enter passphrase for /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa:
Identity added: /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa (arin_muk@hotmail.com)

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$
```

Now run this command:

```
ssh-add ~/.ssh/id_rsa
```

9. When prompted for a passphrase, enter the one associated with the key.

If you've forgotten this password, just create a new one, starting with step 4.

10. We need to add the key to GitHub. Copy the key to your clipboard by entering this command:

```
clip < ~/.ssh/id_rsa.pub
```

```
MINGW64:/c/Users/ARINDAMMUKHERJEE
+---[RSA 4096]-----+
|          . . . o . +          |
|          . . o x o          |
|          . o = =          |
|          o . . = . E          |
|          . o $ . = . +          |
|          . o . . . +          |
|          o . . . + o          |
|          . o = . o = . .          |
|          o x x x o x =          |
+-----[SHA256]-----+

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ eval "$(ssh-agent-s)"
bash: ssh-agent-s: command not found

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ eval "$(ssh-agent -s)"
Agent pid 833

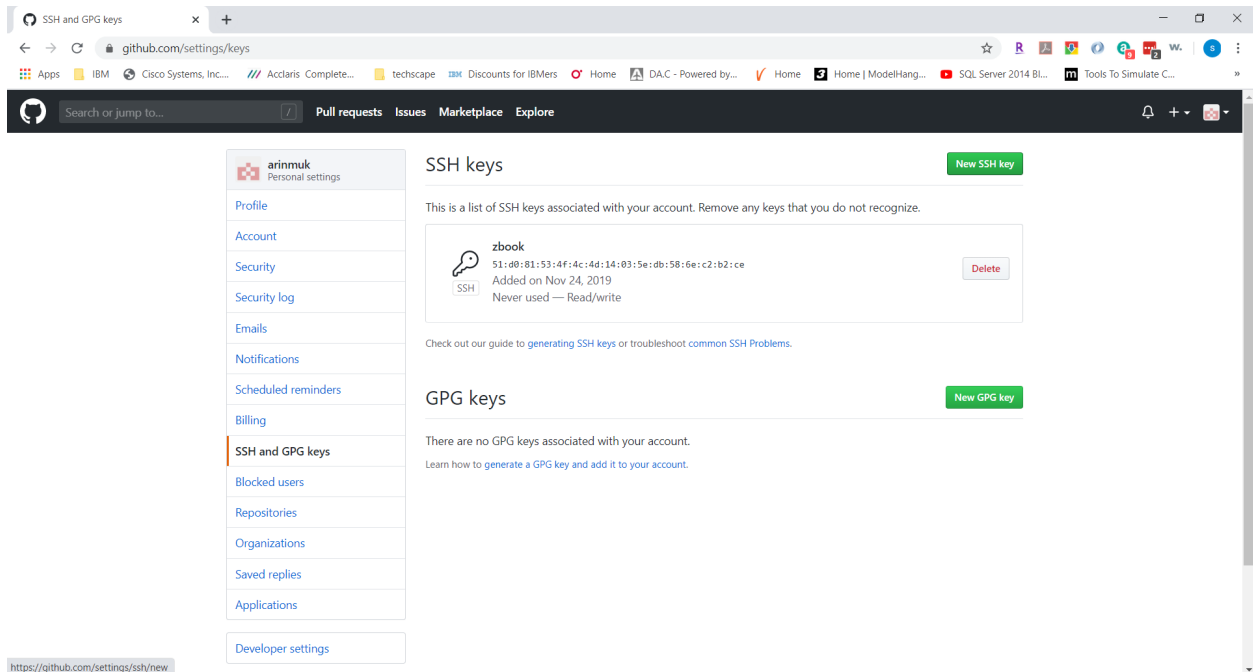
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh-add ~/.ssh/id_rsa
Enter passphrase for /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa:
Identity added: /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa (arin_muk@hotmail.com)

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$
```

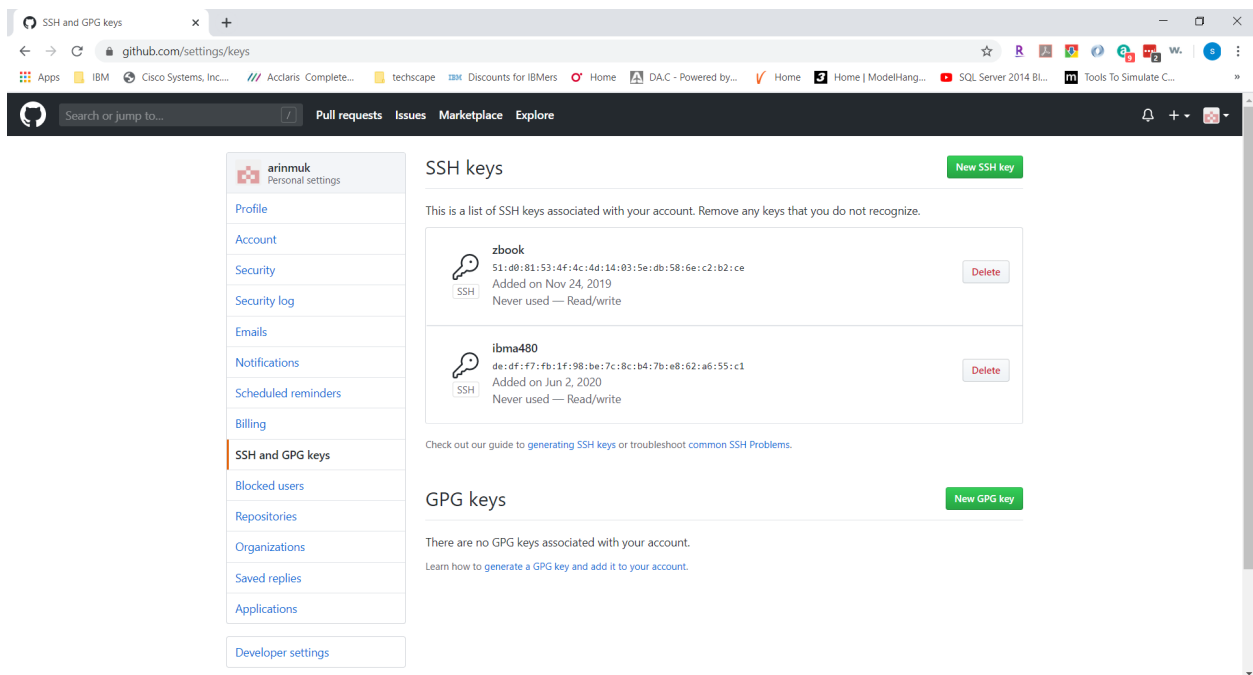
You shouldn't see any kind of message when you run this command. If you do, make sure you entered it correctly. Do not copy anything else to your clipboard until you finish the next instructions. Otherwise, you'll have to repeat this step again.

11. Go to <https://github.com/settings/ssh>. Click the "New SSH Key" button.



When the form pops up, enter a name for your computer in the Title input. In the Key input, paste the SSH key you copied in step 10.

Paste the key and save/add



13. Now we just need to add GitHub to your computer's list of acceptable SSH hosts. Go back to your Bash window. Type in this command: `ssh -T git@github.com`

You should see an RSA fingerprint in your window. Only enter "yes" if it matches the one highlighted in the image below.

```
MINGW64:/c/Users/ARINDAMMUKHERJEE
|  oXxOx=  |
+----[SHA256]-----+

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ eval "$(ssh-agent-s)"
bash: ssh-agent-s: command not found

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ eval "$(ssh-agent -s)"
Agent pid 833

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh-add ~/.ssh/id_rsa
Enter passphrase for /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa:
Identity added: /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa (arin_muk@hotmail.com)

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh -T git@github.com
The authenticity of host 'github.com (140.82.112.4)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWG17E1IG0CspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

Type “yes” and hit Enter

```
MINGW64:/c/Users/ARINDAMMUKHERJEE
bash: ssh-agent-s: command not found

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ eval "$(ssh-agent -s)"
Agent pid 833

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh-add ~/.ssh/id_rsa
Enter passphrase for /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa:
Identity added: /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa (arin_muk@hotmail.com)

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh -T git@github.com
The authenticity of host 'github.com (140.82.112.4)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWG17E1IG0CspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,140.82.112.4' (RSA) to the list of known hosts.
Hi arinmuk! You've successfully authenticated, but GitHub does not provide shell access.

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$
```

Setting your Git username for every repository on your computer

Git uses a username to associate commits with an identity. The Git username is not the same as your GitHub username.

You can change the name that is associated with your Git commits using the `git config` command. The new name you set will be visible in any future commits you push to GitHub from the command line. If you'd like to keep your real name private, you can use any text as your Git username. Changing the

name associated with your Git commits using `git config` will only affect future commits and will not change the name used for past commits

Setting your email address for every repository on your computer

```
MINGW64/c/Users/ARINDAMMUKHERJEE
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh-add ~/.ssh/id_rsa
Enter passphrase for /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa:
Identity added: /c/Users/ARINDAMMUKHERJEE/.ssh/id_rsa (arin_muk@hotmail.com)

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh -T git@github.com
The authenticity of host 'github.com (140.82.112.4)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWG17E1IG0CspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,140.82.112.4' (RSA) to the list of known hosts.
Hi arinmuk! You've successfully authenticated, but GitHub does not provide shell access.

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ git config --global user.name "Arin Mukherjee"

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$
```

Above picture: Git config to ensure your username is registered for commits. Next picture shows the command to add your email for the commits.

`git config --global user.email "xxxx@xxxxmail.com"`

```
MINGW64/c/Users/ARINDAMMUKHERJEE
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ clip < ~/.ssh/id_rsa.pub

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ ssh -T git@github.com
The authenticity of host 'github.com (140.82.112.4)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWG17E1IG0CspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,140.82.112.4' (RSA) to the list of known hosts.
Hi arinmuk! You've successfully authenticated, but GitHub does not provide shell access.

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ git config --global user.name "Arin Mukherjee"

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ git config --global arin_muk@hotmail.com
error: invalid key: arin_muk@hotmail.com

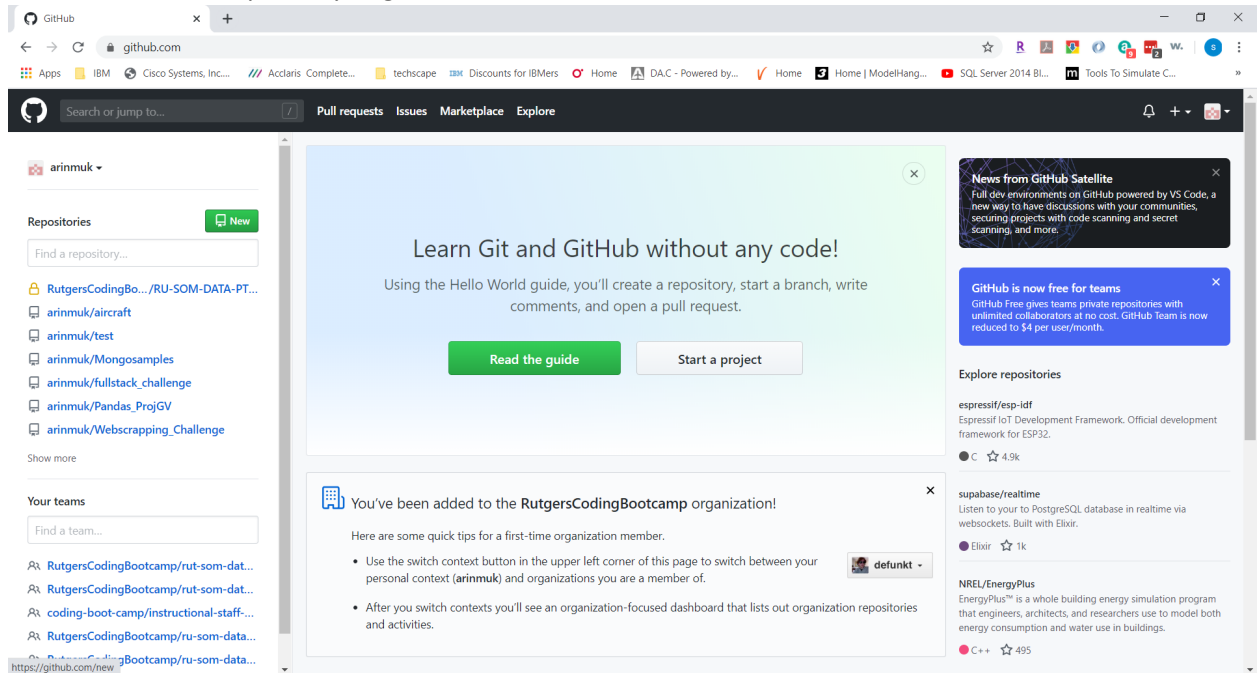
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ git config --global "arin_muk@hotmail.com"
error: invalid key: arin_muk@hotmail.com

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$ git config --global user.email "arin_muk@hotmail.com"

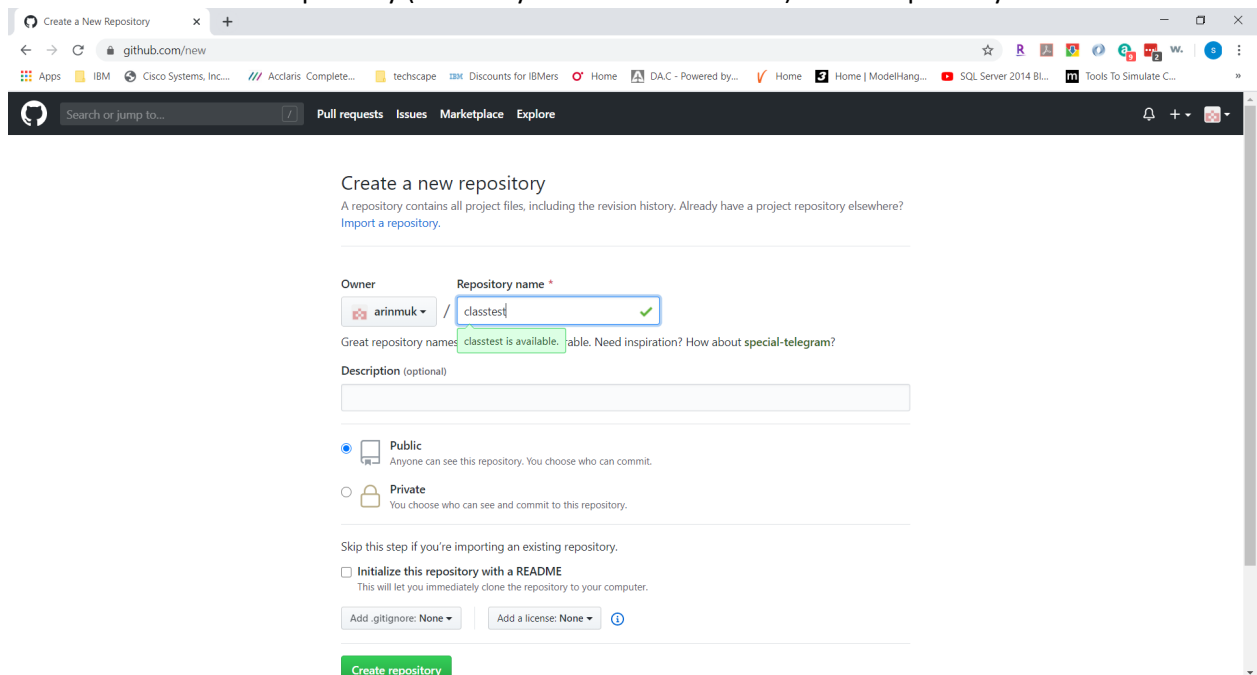
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 ~
$
```

How to use git to work and upload home work

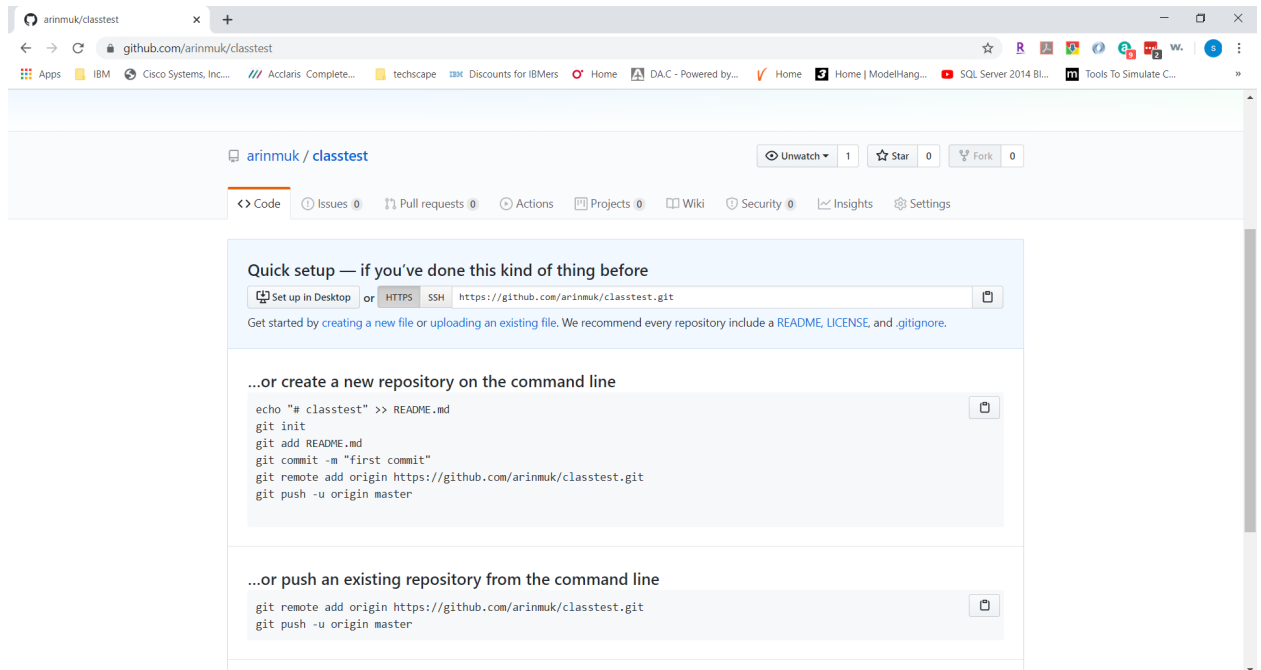
1. Create the “new” repository at github.com



2. Enter the name of the repository (normally the homework name).create repository.



3. Once the repo is created you should see something like this



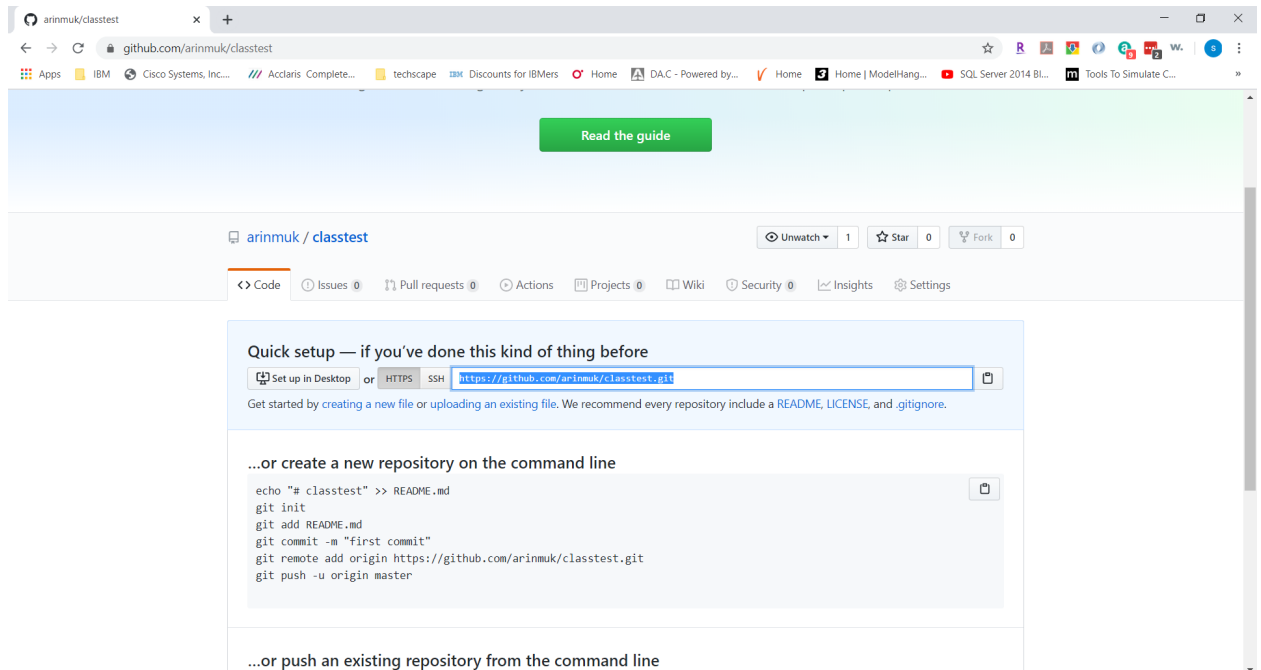
4. As best practice , we should create a readme file and have some details about the project or work .Generally description , libraries and how to run the program is included.
5. Now lets go back the bash terminal
6. Create folder say “test” (be careful as to where you create the folder . Exact location is required). Folder in gitbash can be created via command

\$ mkdir test

Then change to folder or go into that folder

\$ cd /test

7. Once you go to the folder lets return to the webpage in chrome where we had created the repository and copy the highlighted line in memory using ctrl+c



8. Back to git bash and type in
git clone and the link you copied to memory from the chrome window
\$git clone <https://github.com/arinmuk/classtest.git>
This will link up your local folder to the git repo at github
9. You can now start working in your local folder . After you are done working or want to commit your changes , following commands in order has to be given
\$ git add -A
(this adds the files or changes made to files in a holding area)
\$ git commit -m "first commit"
(this commits the file to the local repository)
\$ git push origin master
(this pushes the file to the github repository)

```
MINGW64:/e/test/classtest

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 /e/test/classtest (master)
$ git add A
fatal: pathspec 'A' did not match any files

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 /e/test/classtest (master)
$ git add -A

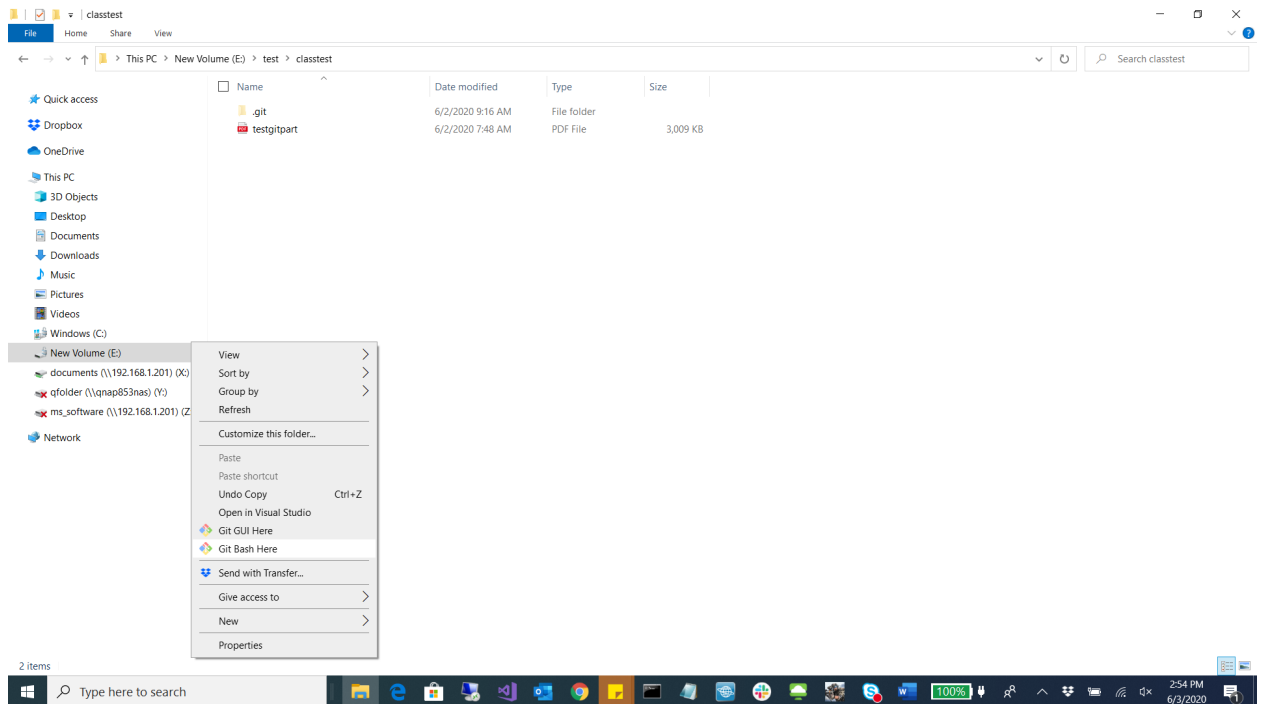
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 /e/test/classtest (master)
$ git commit -m "first commit"
[master (root-commit) 03434c3] first commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 testgitpart.pdf

AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 /e/test/classtest (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 2.56 MiB | 5.10 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/arinmuk/classtest.git
 * [new branch]      master -> master

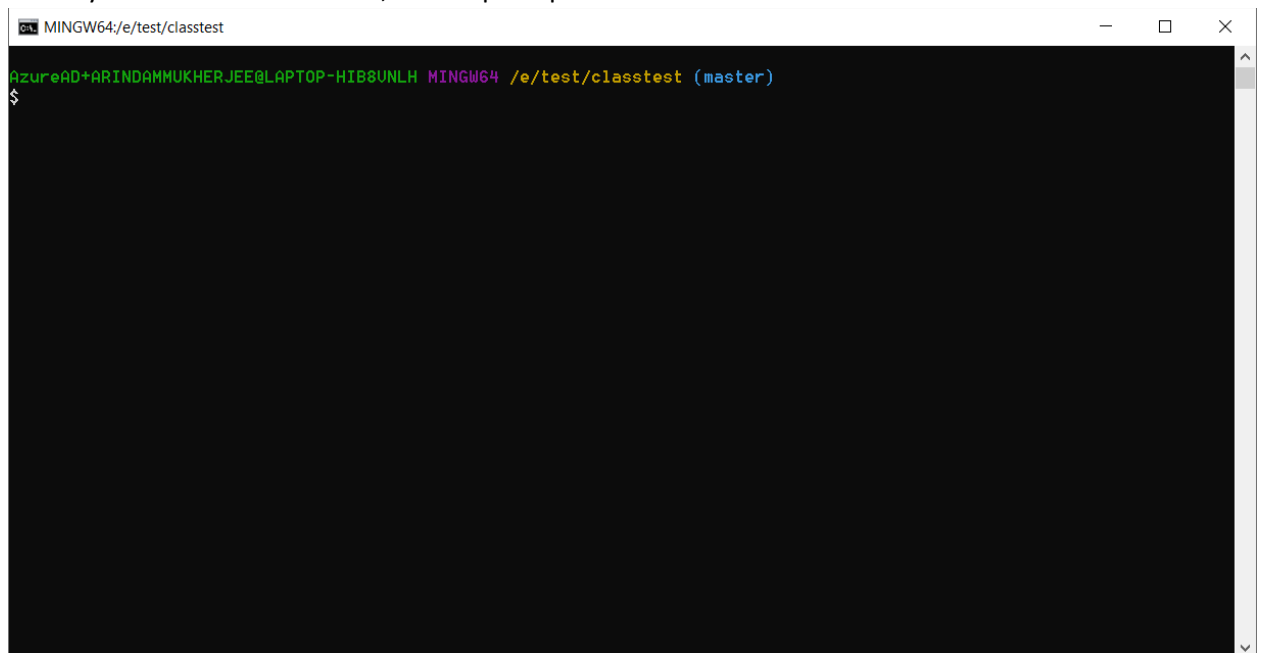
AzureAD+ARINDAMMUKHERJEE@LAPTOP-HIB8UNLH MINGW64 /e/test/classtest (master)
$ _
```

How To Download Git Repository posting from the class repository

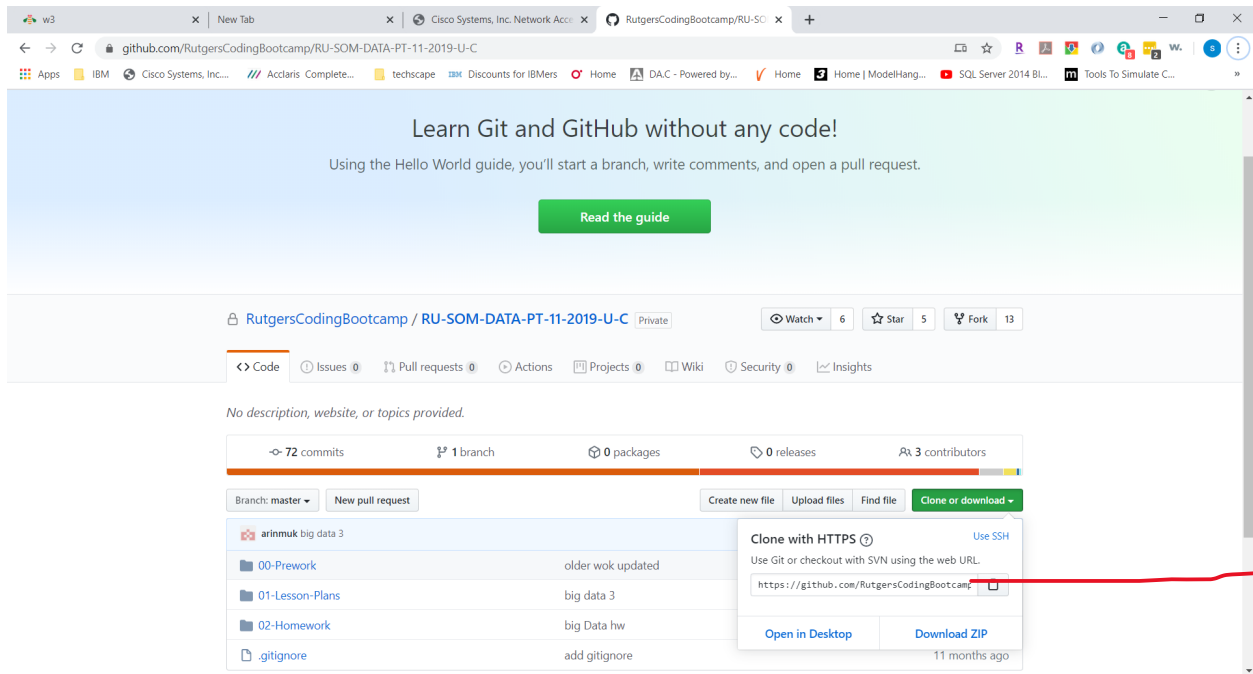
1. Create Folder in your local machine. Lets call it MyClassRepo
2. Git bash Into this folder




3. When you choose Gitbash here, it will open up like below



- Now open to class repository from google chrome
Link for the class repo
<https://github.com/RutgersCodingBootcamp/RU-SOM-DATA-PT-11-2019-U-C>
- choose clone or download . The screenshot below shows it. You are looking for the link to copy .
select the link and copy it using CTRL+C



6. Go back to the git bash window that you have opened earlier and type in
7. `git clone <<<<<<<<<paste the link you copied from the github>>`
So it will look like below



A screenshot of a Windows terminal window. The title bar at the top reads "MINGW64;e:/test/classtest". The terminal has a black background with green text. The first line shows the user's identity and location: "AzureAD+ARINDAMMUKHER.JEE@LAPTOP-HIB8UNLH MINGW64 /e:/test/classtest (master)". The second line shows a command being entered: "\$ git clone https://github.com/RutgersCodingBootcamp/RU-SOM-DATA-PT-11-2019-U-C.git_". The cursor is at the end of the command line.

```
MINGW64;e:/test/classtest
AzureAD+ARINDAMMUKHER.JEE@LAPTOP-HIB8UNLH MINGW64 /e:/test/classtest (master)
$ git clone https://github.com/RutgersCodingBootcamp/RU-SOM-DATA-PT-11-2019-U-C.git_
```

You are all set for the first initial clone .

On a daily basis after the class you should

- a) git bash into this folder
- b) and run “git pull”

This will syn your local repo with all the class materials.

Note : Very Important

You should not make any changes to the files in this folder or repo locally. If you need work on this , copy the folder to a working folder and make changes in the working folder .

This will keep the repo intact and not change the files when you do a git pull.