Instructions for setting up Github repositories

The following commands have to be used on any of the XSEDE systems for setting up your Github repositories.

A. Create an SSH key pair

In the command line, type

1. cd ~/.ssh, then type
2. ssh-keygen -t rsa -C you@example.com [you@example.com - mailid@mail.com]
3. Please enter at the first prompt, and enter a passphrase when prompted to
   (you need to remember this passphrase for every git push).

So, the screen looks like this -

----- ----

Generating public/private rsa key pair.
Enter file in which to save the key (/home/cc/cs61c/sp12/staff/cs61c-t a/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/cc/cs61c/sp12/staff/cs61c-ta/.ssh/id_rsa.
Your public key has been saved in /home/cc/cs61c/sp12/staff/cs61c-ta/.ssh/id_rsa.pub.
The key fingerprint is:
87:d2:b1:93:85:ee:b5:48:71:ba:08:c2:9c:97:5b:16 you@example.com
The key's randomart image is:
+--[RSA 2048]----+
|
|
| .
|
| E+o |
|o..+X |
| =++So
|
| o==*.

|
| ..+.
|
|
|
|
|
+----------------+

This creates two files (id_rsa = private key, id_rsa.pub = public key) in your .ssh directory.

B. Now, Register your SSH key pair with Github

For this you have to use the following commands -
1. cat id_rsa.pub
Select and copy the text here, it should look something like:

---
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQDIjSa6myw36lilGWjhvOQt26gd1Veh4vsio2OL
dp
+
0R3PbuHd89uWLiuz5xrYfUg6HLMIjZZY58BMVrZQiLzLCsB2o6O+REGiuJ48saJkKEdl/gS
t2h
t/TVEr
vRqlY1b2/eWn2fFJuepUQ6M8QUr+x5iHmb4L5d4QcKs+sSM2NG2MI4e+73VG97ns50cx9
Y1
7PaY
lmGb+oM7BTQa1ZxG3585Huhb6SR8JgEr9+DfUSIBC2cTtwruBYG3RETKNvk90gCQ9o7
2CJ
+HtOx1
5XyMc2ixdcGOJs+ubshvph01WlQiSxW6RKBvUDLaIqDl3H84jSvVgPRKgQqQFF4SZ3vLv
Z you@example.com

(You need to create a user account in github.com, it is straightforward procedure).
1) Now, go back to the browser window to the site github.com, and click on the "Account Settings" icon (second from the right at the top of the screen).
2) Click on the "SSH Public Keys" option on the left side of the screen.
3) Click on "Add another public key".
4) Paste the text from your id_dsa.pub file into the "Key" field, and then click "Add key."
5) To verify that your key is working, go back to the Terminal window and type the following:
ssh -T git@github.com and answer "yes" when prompted.

This should result in the following:

The authenticity of host 'github.com (207.97.227.239)' can't be established.
RSA key fingerprint is 16:27:ac:a5:76:28:2d:36:63:1b:56:4d:eb:df:a6:48.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'github.com,207.97.227.239' (RSA) to the list of known hosts.
Enter passphrase for key '/home/cc/cs61c/sp12/staff/cs61c-ta/.ssh/id_rsa':
Hi username! You've successfully authenticated, but GitHub does not provide shell access.

Where your GitHub username should appear in place of "username"

After this, now you have to add your repository ----
For this, you have to do
git config --global user.name Your Name
git config --global user.email you@email.com

After this execute the following commands -

1. cd ~
2. mkdir Git
3. cd Git

4. mkdir dmacsassignments.github.com
5. cd dmacsassignments.github.com

The follwing command should only be run ONCE. Doing git init twice will cause hard to fix 'git in git' situations.

6. git init

(You need to use the commands [1 to 6] only once.)

Commands to add a new file to the local git repository.

7. touch README
8. git add README
9. git commit -m 'first commit'

Command to setup the remote git repository (you need to do this only once).

10. git remote add origin git@github.com:dmacsassignments/dmacsassignments.github.com.git

To get any new additions to remote repo into the local.

11. git pull -u origin master

To upload any new files in local repo to the remote.

12. git push origin master

So, to summarize, the commands you have to use to submit a new assignment submission are:

i. cd Git/dmacsassignments.github.com
ii. git add username_hw0.pdf
iii. git commit –m ‘username commit at 9 PM 19/11/2012’
iv. git push origin master