Creating a public key to use with GitHub. Turn this into proper instructions

Links

https://help.github.com/articles/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent/

https://help.github.com/articles/adding-a-new-ssh-key-to-your-github-account/

steelepj@QHSL28641 MINGW64 ~

$ git status

fatal: Not a git repository (or any of the parent directories): .git

steelepj@QHSL28641 MINGW64 ~

$ cd C:

steelepj@QHSL28641 MINGW64 /c

$ cd martech

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git status

On branch master

Your branch is up-to-date with 'origin/master'.

nothing to commit, working tree clean

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git remote -v

origin https://github.com/JosephSteelePerkins/MarTech (fetch)

origin https://github.com/JosephSteelePerkins/MarTech (push)

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git remote set-url origin git@github.com:JosephSteelePerkins/MarTech.git

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git remote -v

origin git@github.com:JosephSteelePerkins/MarTech.git (fetch)

origin git@github.com:JosephSteelePerkins/MarTech.git (push)

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git status

On branch master

Your branch is up-to-date with 'origin/master'.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: Git Bash and useful commands.docx

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

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git add Git\ Bash\ and\ useful\ commands.docx

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git status

On branch master

Your branch is up-to-date with 'origin/master'.

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

modified: Git Bash and useful commands.docx

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git commit

Aborting commit due to empty commit message.

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git commit -m "Made changes to Olu's doc"

[master 4d16234] Made changes to Olu's doc

1 file changed, 0 insertions(+), 0 deletions(-)

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git status

On branch master

Your branch is ahead of 'origin/master' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git push

The authenticity of host 'github.com (140.82.118.4)' can't be established.

RSA key fingerprint is SHA256:nThbg6kXUpJWGl7E1IGOCspRomTxdCARLviKw6E5SY8.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added 'github.com,140.82.118.4' (RSA) to the list of known hosts.

Permission denied (publickey).

fatal: Could not read from remote repository.

Please make sure you have the correct access rights

and the repository exists.

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git push

Permission denied (publickey).

fatal: Could not read from remote repository.

Please make sure you have the correct access rights

and the repository exists.

steelepj@QHSL28641 MINGW64 /c/martech (master)

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

Agent pid 3476

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ ssh-add -1 -E md5

ssh-add: unknown option -- 1

usage: ssh-add [options] [file ...]

Options:

-l List fingerprints of all identities.

-E hash Specify hash algorithm used for fingerprints.

-L List public key parameters of all identities.

-k Load only keys and not certificates.

-c Require confirmation to sign using identities

-t life Set lifetime (in seconds) when adding identities.

-d Delete identity.

-D Delete all identities.

-x Lock agent.

-X Unlock agent.

-s pkcs11 Add keys from PKCS#11 provider.

-e pkcs11 Remove keys provided by PKCS#11 provider.

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ ssh-add -l -E md5

The agent has no identities.

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ ssh-keygen -t rsa

Generating public/private rsa key pair.

Enter file in which to save the key (/c/Users/steelepj/.ssh/id\_rsa):

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /c/Users/steelepj/.ssh/id\_rsa.

Your public key has been saved in /c/Users/steelepj/.ssh/id\_rsa.pub.

The key fingerprint is:

SHA256:wDr4Jyj5VurW4twEy8dVnUgMnGyNChbc9dqAFi/Fd+4 steelepj@QHSL28641

The key's randomart image is:

+---[RSA 2048]----+

| ..o.=+\*. |

| + .\*Bo+o.. |

| . .+o=.+oo |

| o.o \* . |

| o o o S. |

| o \*.o E |

|o ++\* . |

| +=+.o |

| ==.. |

+----[SHA256]-----+

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ ssh-add

Identity added: /c/Users/steelepj/.ssh/id\_rsa (/c/Users/steelepj/.ssh/id\_rsa)

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git push

Warning: Permanently added the RSA host key for IP address '140.82.118.3' to the list of known hosts.

Permission denied (publickey).

fatal: Could not read from remote repository.

Please make sure you have the correct access rights

and the repository exists.

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ ^C

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git push

Permission denied (publickey).

fatal: Could not read from remote repository.

Please make sure you have the correct access rights

and the repository exists.

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ ssh

usage: ssh [-1246AaCfGgKkMNnqsTtVvXxYy] [-b bind\_address] [-c cipher\_spec]

[-D [bind\_address:]port] [-E log\_file] [-e escape\_char]

[-F configfile] [-I pkcs11] [-i identity\_file]

[-J [user@]host[:port]] [-L address] [-l login\_name] [-m mac\_spec]

[-O ctl\_cmd] [-o option] [-p port] [-Q query\_option] [-R address]

[-S ctl\_path] [-W host:port] [-w local\_tun[:remote\_tun]]

[user@]hostname [command]

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ ssh -vT git@github.com

OpenSSH\_7.5p1, OpenSSL 1.0.2k 26 Jan 2017

debug1: Reading configuration data /etc/ssh/ssh\_config

debug1: Connecting to github.com [140.82.118.4] port 22.

debug1: Connection established.

debug1: identity file /c/Users/steelepj/.ssh/id\_rsa type 1

debug1: key\_load\_public: No such file or directory

debug1: identity file /c/Users/steelepj/.ssh/id\_rsa-cert type -1

debug1: key\_load\_public: No such file or directory

debug1: identity file /c/Users/steelepj/.ssh/id\_dsa type -1

debug1: key\_load\_public: No such file or directory

debug1: identity file /c/Users/steelepj/.ssh/id\_dsa-cert type -1

debug1: key\_load\_public: No such file or directory

debug1: identity file /c/Users/steelepj/.ssh/id\_ecdsa type -1

debug1: key\_load\_public: No such file or directory

debug1: identity file /c/Users/steelepj/.ssh/id\_ecdsa-cert type -1

debug1: key\_load\_public: No such file or directory

debug1: identity file /c/Users/steelepj/.ssh/id\_ed25519 type -1

debug1: key\_load\_public: No such file or directory

debug1: identity file /c/Users/steelepj/.ssh/id\_ed25519-cert type -1

debug1: Enabling compatibility mode for protocol 2.0

debug1: Local version string SSH-2.0-OpenSSH\_7.5

debug1: Remote protocol version 2.0, remote software version babeld-f43b814b

debug1: no match: babeld-f43b814b

debug1: Authenticating to github.com:22 as 'git'

debug1: SSH2\_MSG\_KEXINIT sent

debug1: SSH2\_MSG\_KEXINIT received

debug1: kex: algorithm: curve25519-sha256@libssh.org

debug1: kex: host key algorithm: ssh-rsa

debug1: kex: server->client cipher: chacha20-poly1305@openssh.com MAC: <implicit> compression: none

debug1: kex: client->server cipher: chacha20-poly1305@openssh.com MAC: <implicit> compression: none

debug1: expecting SSH2\_MSG\_KEX\_ECDH\_REPLY

debug1: Server host key: ssh-rsa SHA256:nThbg6kXUpJWGl7E1IGOCspRomTxdCARLviKw6E5SY8

debug1: Host 'github.com' is known and matches the RSA host key.

debug1: Found key in /c/Users/steelepj/.ssh/known\_hosts:1

debug1: rekey after 134217728 blocks

debug1: SSH2\_MSG\_NEWKEYS sent

debug1: expecting SSH2\_MSG\_NEWKEYS

debug1: SSH2\_MSG\_NEWKEYS received

debug1: rekey after 134217728 blocks

debug1: SSH2\_MSG\_SERVICE\_ACCEPT received

debug1: Authentications that can continue: publickey

debug1: Next authentication method: publickey

debug1: Offering RSA public key: /c/Users/steelepj/.ssh/id\_rsa

debug1: Authentications that can continue: publickey

debug1: Trying private key: /c/Users/steelepj/.ssh/id\_dsa

debug1: Trying private key: /c/Users/steelepj/.ssh/id\_ecdsa

debug1: Trying private key: /c/Users/steelepj/.ssh/id\_ed25519

debug1: No more authentication methods to try.

Permission denied (publickey).

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ ssh-agent -s

SSH\_AUTH\_SOCK=/tmp/ssh-JzZsFmmN8GrK/agent.788; export SSH\_AUTH\_SOCK;

SSH\_AGENT\_PID=4996; export SSH\_AGENT\_PID;

echo Agent pid 4996;

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ ssh-add -l -E md5

2048 MD5:07:08:b3:47:08:1e:2f:80:bb:c2:f9:d7:c6:0d:c6:0a /c/Users/steelepj/.ssh/id\_rsa (RSA)

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ ls -al ~/.ssh

total 21

drwxr-xr-x 1 steelepj 1049089 0 Dec 10 11:19 ./

drwxr-xr-x 1 steelepj 1049089 0 Dec 10 11:13 ../

-rw-r--r-- 1 steelepj 1049089 1675 Dec 10 11:19 id\_rsa

-rw-r--r-- 1 steelepj 1049089 400 Dec 10 11:19 id\_rsa.pub

-rw-r--r-- 1 steelepj 1049089 799 Dec 10 11:20 known\_hosts

steelepj@QHSL28641 MINGW64 /c/martech (master)

$ git push

Counting objects: 3, done.

Delta compression using up to 4 threads.

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 79.54 KiB | 5.30 MiB/s, done.

Total 3 (delta 2), reused 0 (delta 0)

remote: Resolving deltas: 100% (2/2), completed with 2 local objects.

To github.com:JosephSteelePerkins/MarTech.git

40ec554..4d16234 master -> master

steelepj@QHSL28641 MINGW64 /c/martech (master)

$