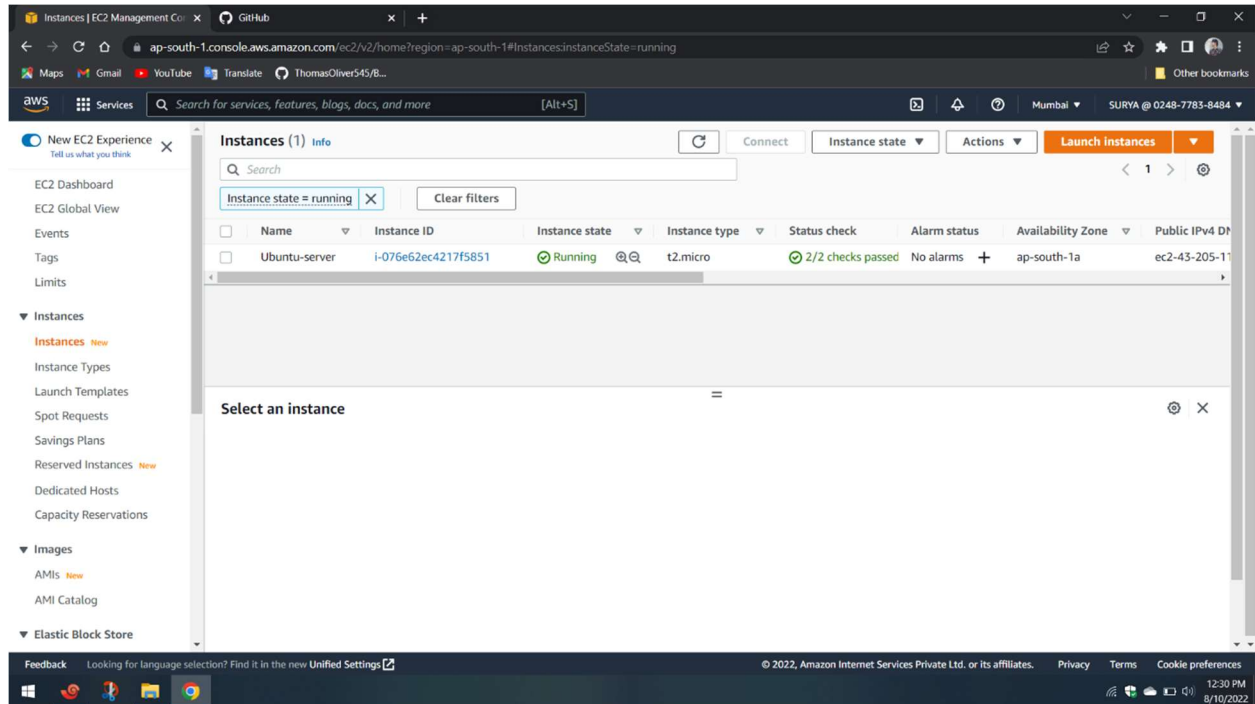


HOW TO CONNECT TO GITHUB FROM AWS EC2 INSTANCE

-surya shankar

STEPS

Launch an instance



ssh into that instance

```

ubuntu@ip-172-31-38-97:~$ ssh -i ubuntu-key.pem ubuntu@ec2-43-205-115-30.ap-south-1.compute.amazonaws.com
Warning: Permanently added 'ec2-43-205-115-30.ap-south-1.compute.amazonaws.com' (ssh-rsa) to the list of known hosts.
ubuntu@ec2-43-205-115-30.ap-south-1.compute.amazonaws.com:~$

Host 'ec2-43-205-115-30.ap-south-1.compute.amazonaws.com' resolved to 43.205.115.30.
Connecting to 43.205.115.30:22...
Connection established.
To escape to local shell, press 'Ctrl+Alt+J'.

Welcome to Ubuntu 22.04 LTS (GNU/Linux 5.15.0-1011-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Wed Aug 10 07:00:24 UTC 2022

System load: 0.0166015625   Processes:            102
Usage of /: 19.0% of 7.5868   Users logged in:      0
Memory usage: 20%           IP4 address for eth0: 172.31.38.97
Swap usage: 0%

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

/usr/bin/xauth: file /home/ubuntu/.Xauthority does not exist
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-38-97:~$
  
```

ssh-keygen : To Create a new set of key on aws instance]

The screenshot shows a Windows desktop environment. At the top, there's a taskbar with several application icons. Below it, a terminal window titled "Xshell 7 (Free for Home/School)" is open. The terminal shows a command prompt session where the user has run the 'ssh-keygen' command. The output indicates that a new RSA key pair is being generated. The user is prompted to enter a passphrase, which they leave empty. The process completes by saving the keys in the directory '/home/ubuntu/.ssh/'. Finally, the terminal displays the SHA256 fingerprint and the randomart image for the newly created key.

```
ubuntu@ip-172-31-38-97:~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ubuntu/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ubuntu/.ssh/id_rsa
Your public key has been saved in /home/ubuntu/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:0012v+kW6o9UfrTxc2gHxlrLxz2G42mH12kBXvcFus8 ubuntu@ip-172-31-38-97
The key's randomart image is:
+---[RSA 3072]-----+
|
|      .
|     +
|    ..
|   .o
|  S o +.* +
| = +.* B.
| o + +o%o
| o = &E%
| o =%.-
+----[SHA256]-----+
ubuntu@ip-172-31-38-97:~$
```

```
cd .ssh
```

cat id_rsa.pub : Public key content

```
ec2-43-205-115-30.ap-south-1.compute.amazonaws.com22 - ubuntu@ip-172-31-38-97: ~/ssh - Xshell 7 (Free for Home/School)
File Edit View Tools Tab Window Help
ssh://ubuntu@ec2-43-205-115-30.ap-south-1.compute.amazonaws.com:22
To add the current session, click on the left arrow button.
1 ec2-43-205-115-30.ap-so...
ubuntu@ip-172-31-38-97:~$ cd .ssh
ubuntu@ip-172-31-38-97:~/.ssh$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCA1ehh0uXuQL8dunJ0FZo04/kPvi2jUIiqh8+PAwiIrZIRqdp6XG3khMbV9S8VNm7qMI/c1QRh0Ddzu0hpvtA3aogu60vW4HD3jsKP2+rwu9kCxPT7SgmcYF65n1T8ghxQZ2zi1HwHbIYIUpyy2V8
f9LU9ob0s158y000vc/X88Z0K91ffFP1zdL9f+/Xw+eoJRmh0MmNS+ogh8AymhSyKW/4XCzS381nuB9sw6U1o+h6jw47dBQkDIXI9REHEHfUix08Bg7R7Qck9tffjQicfqlsV1y0IZnrqsgZ7vLUfPEuY1yhrJnvdot1WfPXRGfftOKeyJzS8Kg0LPuWJ
vL0L30da0hwKUescfNCPZMbQo0GSPPW180zhn71YEh1dQmtfu+UfRU7pUuLnJN60oLSAn36v0d8eqJL6TWT1h0P0YHv6bFsENv0eZTzgNv0U07mmyyFRzzfcQ0In5CT1YRPS40hAPK4RQLH66UI3ag6dTV+v8y01w5C4supKzBEJJM= ubuntu@ip-1
72-31-38-97
ubuntu@ip-172-31-38-97:~/.ssh$
```

Attach this key into your github account

The image shows two screenshots of the GitHub web interface, illustrating the process of adding an SSH key to a personal account.

Top Screenshot: Adding a new SSH key

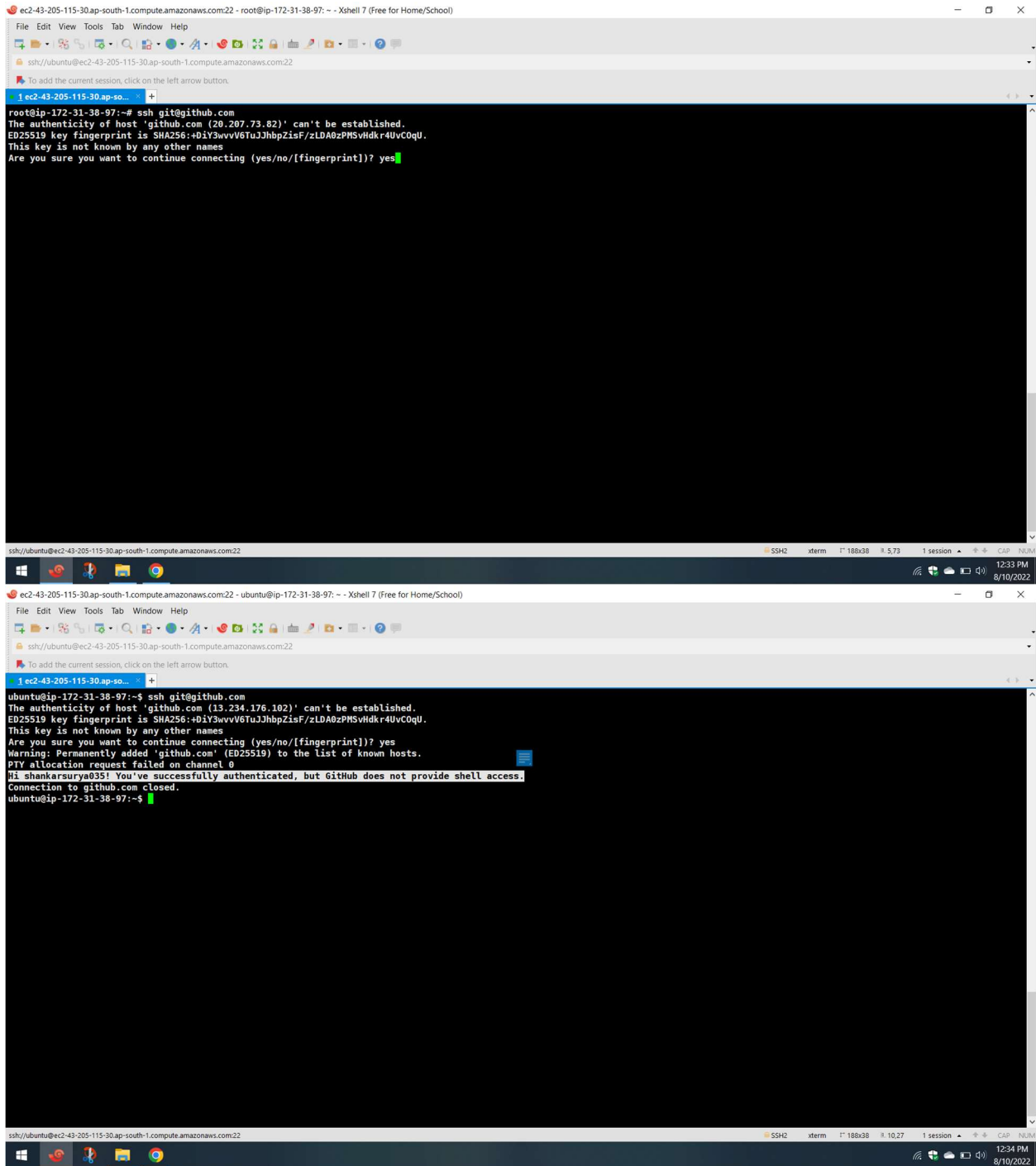
- URL:** `github.com/settings/ssh/new`
- Page Title:** SSH keys / Add new
- Form Fields:**
 - Title:** `githubssh`
 - Key:** `ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCA1ehhOuXQL8dunl0FzoQ4/kPvi2JUIq8+PAwllrZIRqdp6XG3khMbV9SN8VVm7qM/c1QRhODDzu0hpvtA3aoguGOvW4HD3jsKP2+Wu9kCPT7SgmcYf65n1T8ghxQZ2zi1HwHbYIUpyy2V8I9LU9ob0si58yDODvC/X88ZoK91ffP1zd9f+/Xw+eolRmh0MmNS+oghBAymhSyKW/4XCZS381nuB9swRU1o+h6jw47dBQkDTXNREHEhtUix0Bbg7R7Qck9tffjQIClqNsV1yOlZnrqsgZ7VIUPEuY1yhrJnvdot1WFpXRgrfOKeYzSs8KgDLPuWwLQL30da6hwKUEscNCPZNBQoDGSPPW18Ozhn7iYeh1dQmtfu+UIRU7pUulMJN60oLSAn36vDd8eQJIGTWT1hOP0YHv6bFsENvOezTZgNvDUO7mmyyFRzzFcQ01n5CT1YRPS40hAPK4RQH66UI3Jag6dTV+v8y0iW5C4sUpKzbEJIM= ubuntu@ip-172-31-38-97`
- Action:** A green button labeled "Add SSH key" is visible at the bottom of the form.

Bottom Screenshot: SSH keys management

- URL:** `github.com/settings/keys`
- Page Title:** SSH keys
- Content:**
 - A message states: "This is a list of SSH keys associated with your account. Remove any keys that you do not recognize."
 - A table lists the added key:

Key	SHA256	Added	Used	Action
githubssh	SHA256:0012y+kwG09UfrTxc2gltz1nLxx2G42mH12kBXvcFus8	Added on Aug 10, 2022	Never used	Read/write Delete
 - A link to "Check out our guide to generating SSH keys or troubleshoot common SSH problems."
 - GPG keys:** A section titled "GPG keys" with a "New GPG key" button. It states: "There are no GPG keys associated with your account. Learn how to generate a GPG key and add it to your account."
 - Vigilant mode:** A section titled "Vigilant mode" with a checkbox "Flag unsigned commits as unverified". Below it, a note says: "This will include any commit attributed to your account but not signed with your GPG or S/MIME key. Note that this will include your existing unsigned commits."

Connect to github now



```
ec2-43-205-115-30.ap-south-1.compute.amazonaws.com22 - root@ip-172-31-38-97: ~ - Xshell 7 (Free for Home/School)
File Edit View Tools Tab Window Help
ssh://ubuntu@ec2-43-205-115-30.ap-south-1.compute.amazonaws.com:22
To add the current session, click on the left arrow button.
1 ec2-43-205-115-30.ap-so...
root@ip-172-31-38-97:~# ssh git@github.com
The authenticity of host 'github.com (20.207.73.82)' can't be established.
ED25519 key fingerprint is SHA256:+D1Y3wvV6TuJhbpZisF/zLDA0zPHSVHdkr4UvC0qU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

ssh://ubuntu@ec2-43-205-115-30.ap-south-1.compute.amazonaws.com:22
SSH2 xterm 1" 188x38 9.5.73 1 session CAP NUM
12:33 PM 8/10/2022

ec2-43-205-115-30.ap-south-1.compute.amazonaws.com22 - ubuntu@ip-172-31-38-97: ~ - Xshell 7 (Free for Home/School)
File Edit View Tools Tab Window Help
ssh://ubuntu@ec2-43-205-115-30.ap-south-1.compute.amazonaws.com:22
To add the current session, click on the left arrow button.
1 ec2-43-205-115-30.ap-so...
ubuntu@ip-172-31-38-97:~$ ssh git@github.com
The authenticity of host 'github.com (13.234.176.102)' can't be established.
ED25519 key fingerprint is SHA256:+D1Y3wvV6TuJhbpZisF/zLDA0zPHSVHdkr4UvC0qU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
PTY allocation request failed on channel 0
Hi shankarsurya0351! You've successfully authenticated, but GitHub does not provide shell access.
Connection to github.com closed.
ubuntu@ip-172-31-38-97:~$
```