

Module 3: Introduction to DevOps on Cloud

Demo 3 – Connecting to an EC2 Instance

edureka!

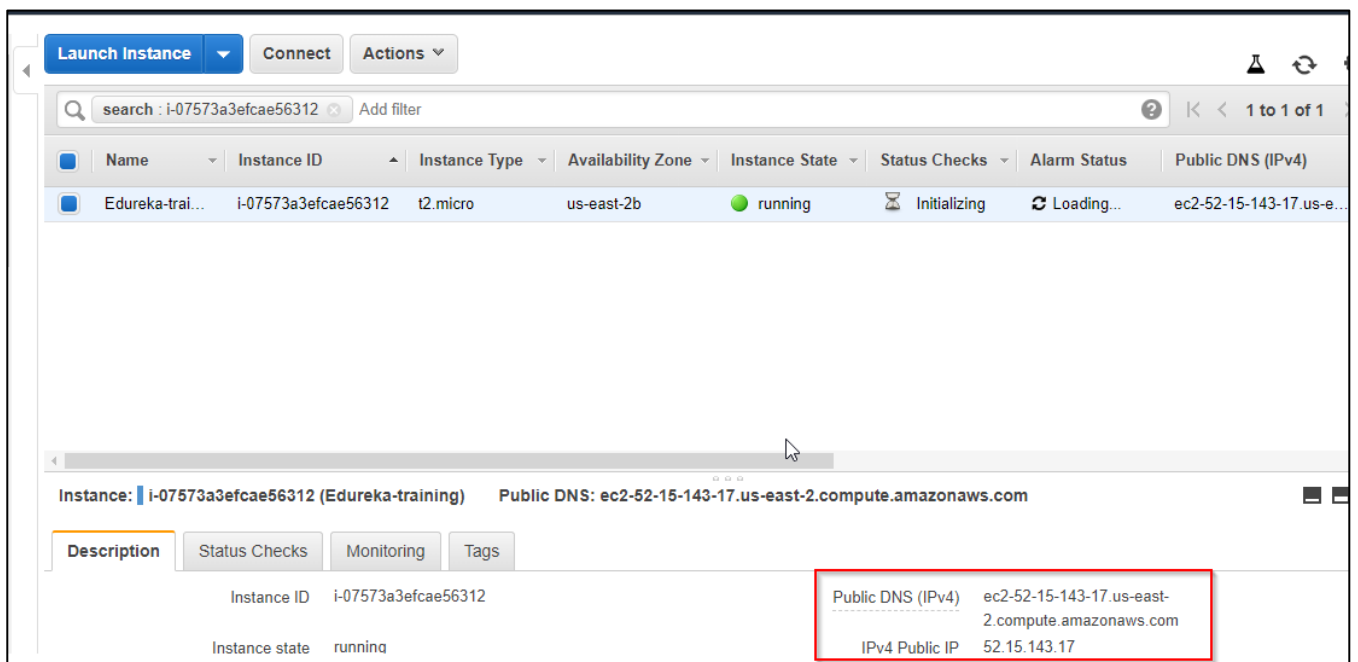
edureka!

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Different Approaches to connect to an EC2 instance:

Method 1: Using Putty

Note the **Public IP or DNS name** to connect it through internet. Also note the Instance Id to connect through CLI.

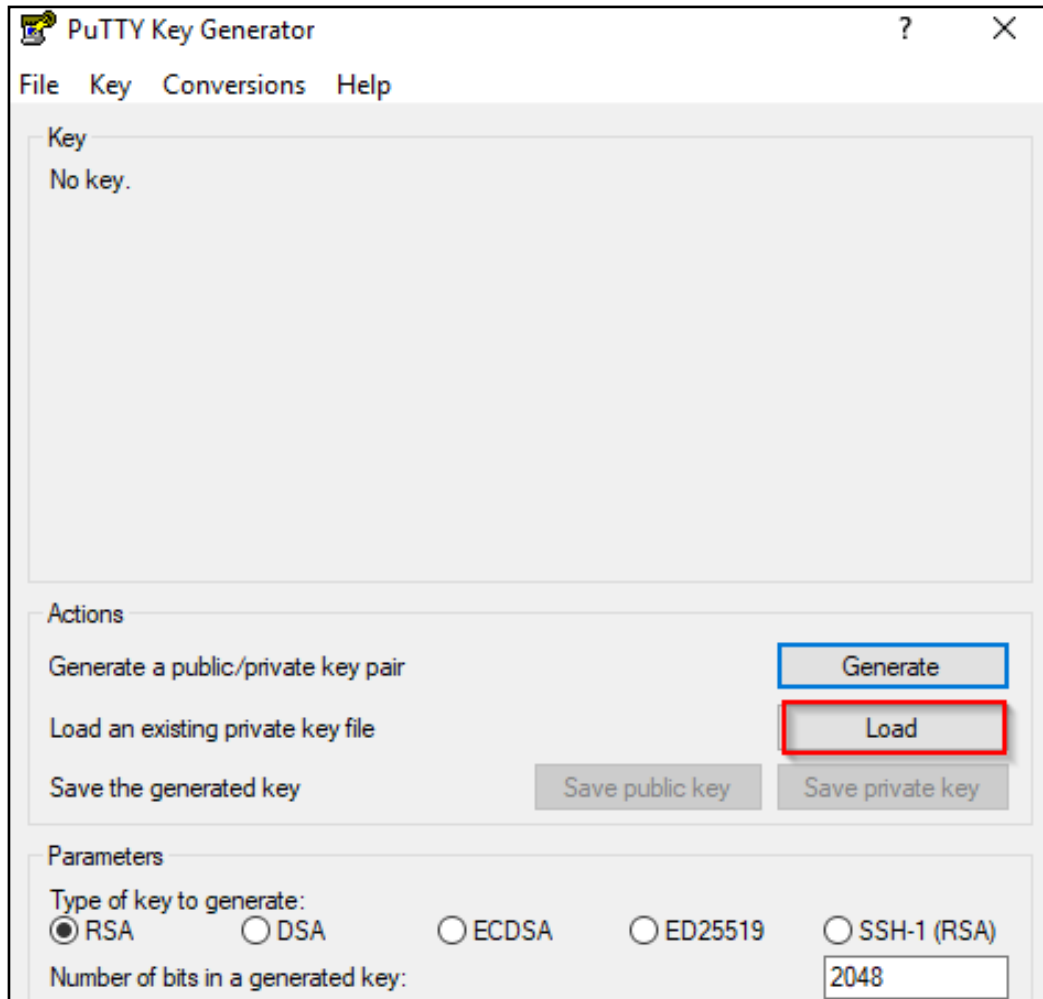


For Window users -- Convert the downloaded **.pem** file to PPK file using PuTTYgen software

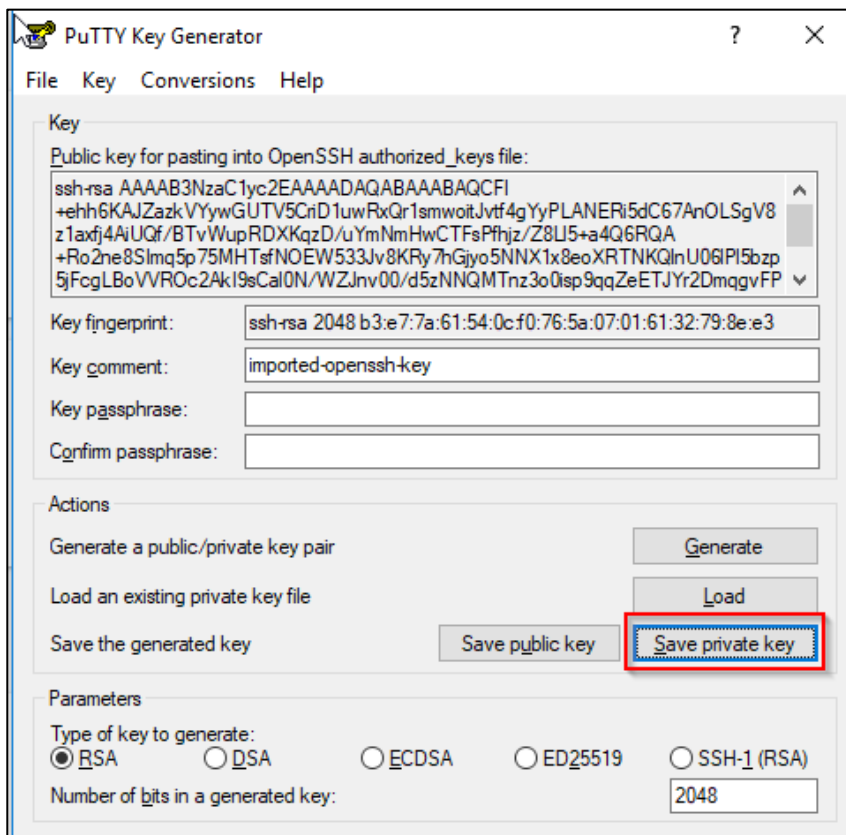
The different usernames for the AMIs are:

| AMI Type | User Name |
|------------|-------------------------|
| Linux AMI | ec2-user |
| Centos | centos |
| Debian | admin or root |
| Feroda | ec2-user or feroda |
| RHEL | ec2-user or root |
| SUSE | ec2-user or root |
| Ubuntu | ubuntu or root |
| Custom AMI | Check with AMI provider |

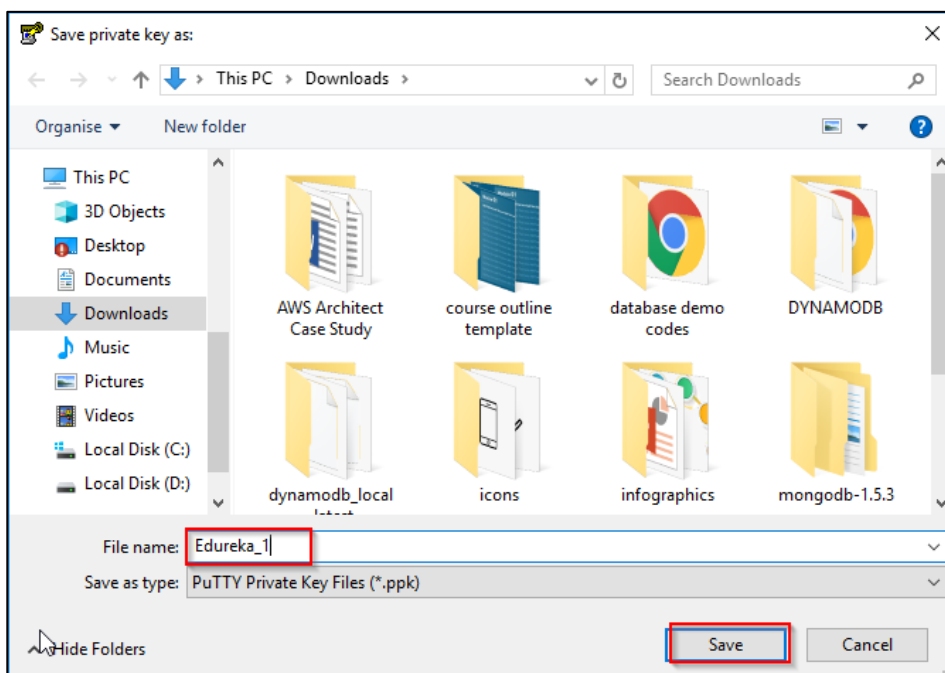
Step 1: Download PuTTY through <https://www.putty.org> and install it. In your task bar of your local system, search for PuTTYgen and select it. PuTTYgen dialogue box appears, then select **Load** option. Search for the key pair file which would be in the .pem format and open it



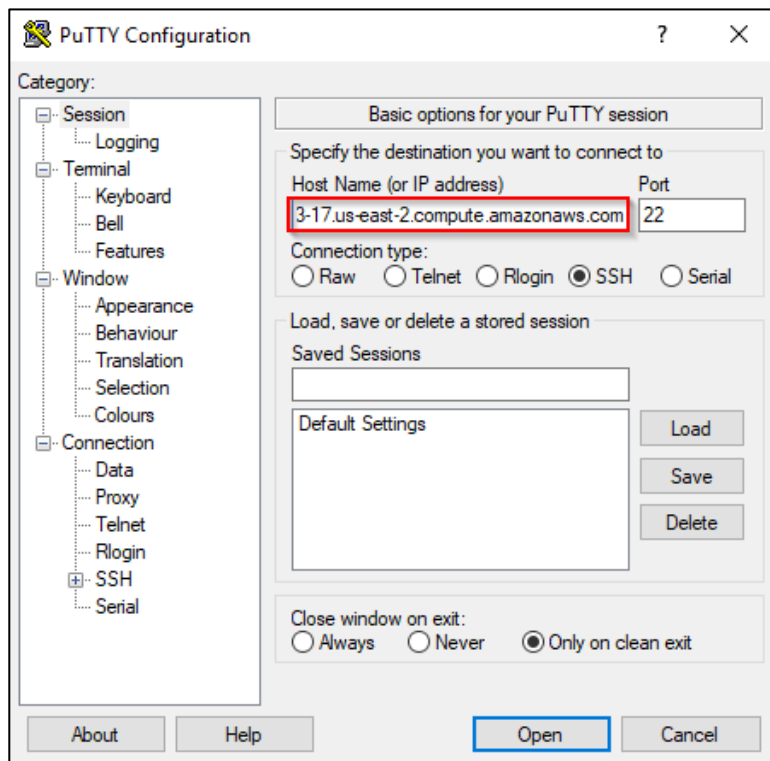
Step 2: Click on “Load”, make file type as “All Files”, select the downloaded .pem file to convert it to .ppk file, and click on “Save private key”.



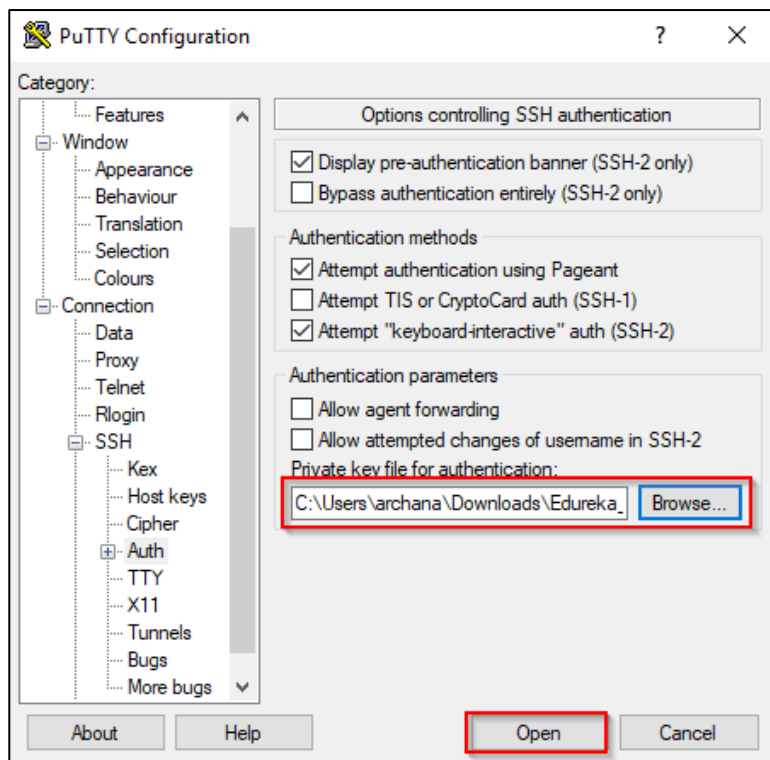
Step 3: Give a name to the .ppk file and save it in your system.



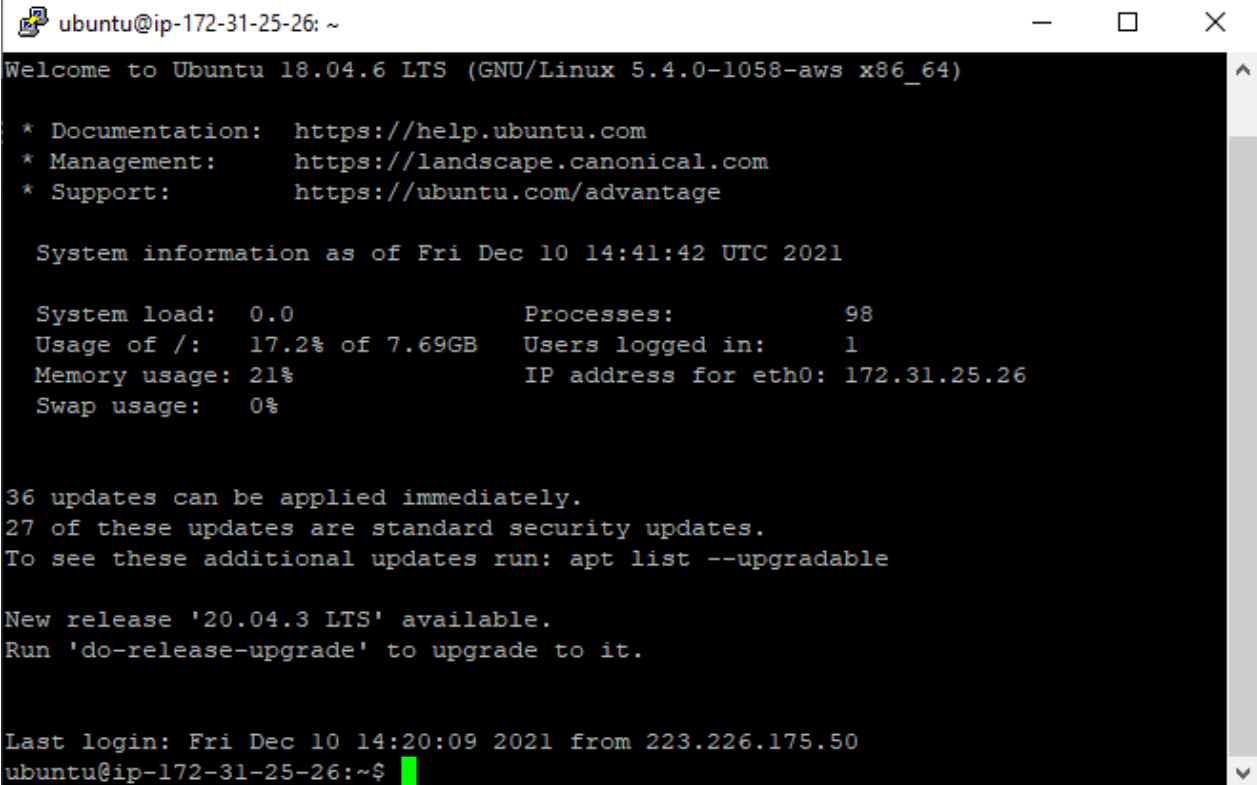
Step 4: Open putty and paste the copied **Instance DNS**.



Step 5: Select SSH>Auth>Browser and upload your key-pair (ppk file).



Step 6: To login and start working with your instance type the **User Name** of instance.

A terminal window titled 'ubuntu@ip-172-31-25-26: ~' with standard window controls. The terminal output shows the Ubuntu 18.04.6 LTS welcome message, documentation links, system information as of Fri Dec 10 14:41:42 UTC 2021, system load and processes, usage of /, memory usage, swap usage, and a list of updates. It also mentions a new release '20.04.3 LTS' is available and shows the last login time. The prompt 'ubuntu@ip-172-31-25-26:~\$' is visible at the bottom with a green cursor.

```
ubuntu@ip-172-31-25-26: ~
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 5.4.0-1058-aws x86_64)

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

System information as of Fri Dec 10 14:41:42 UTC 2021

System load:  0.0               Processes:           98
Usage of /:   17.2% of 7.69GB   Users logged in:    1
Memory usage: 21%              IP address for eth0: 172.31.25.26
Swap usage:   0%

36 updates can be applied immediately.
27 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

New release '20.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Dec 10 14:20:09 2021 from 223.226.175.50
ubuntu@ip-172-31-25-26:~$
```

Method 2: Via Git Bash

Step 1: In **EC2 console**, **select your instance** and click on **connect** and note below highlighted commands:

Connect to your instance

Connection method ☒ A standalone SSH client ⓘ
☐ Session Manager ⓘ
☐ EC2 Instance Connect (browser-based SSH connection) ⓘ

To access your instance:

1. Open an SSH client. (find out how to [connect using PuTTY](#))
2. Locate your private key file (edurekakeypair.pem). The wizard automatically detects the key you used to launch the instance.
3. Your key must not be publicly viewable for SSH to work. Use this command if needed:

```
chmod 400 edurekakeypair.pem
```
4. Connect to your instance using its Public DNS:

```
ec2-3-22-116-92.us-east-2.compute.amazonaws.com
```

Example:

```
ssh -i "edurekakeypair.pem" ubuntu@ec2-3-22-116-92.us-east-2.compute.amazonaws.com
```

Please note that in most cases the username above will be correct, however please ensure that you read your AMI usage instructions to ensure that the AMI owner has not changed the default AMI username.

Step 2: Install Git in your system (<https://git-scm.com/downloads>)

git --everything-is-local

About
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Community

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads

Mac OS X

Windows

Linux/Unix

Older releases are available and the Git source repository is on GitHub.

GUI Clients

Git comes with built-in GUI tools (**git-gui**, **gitk**), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

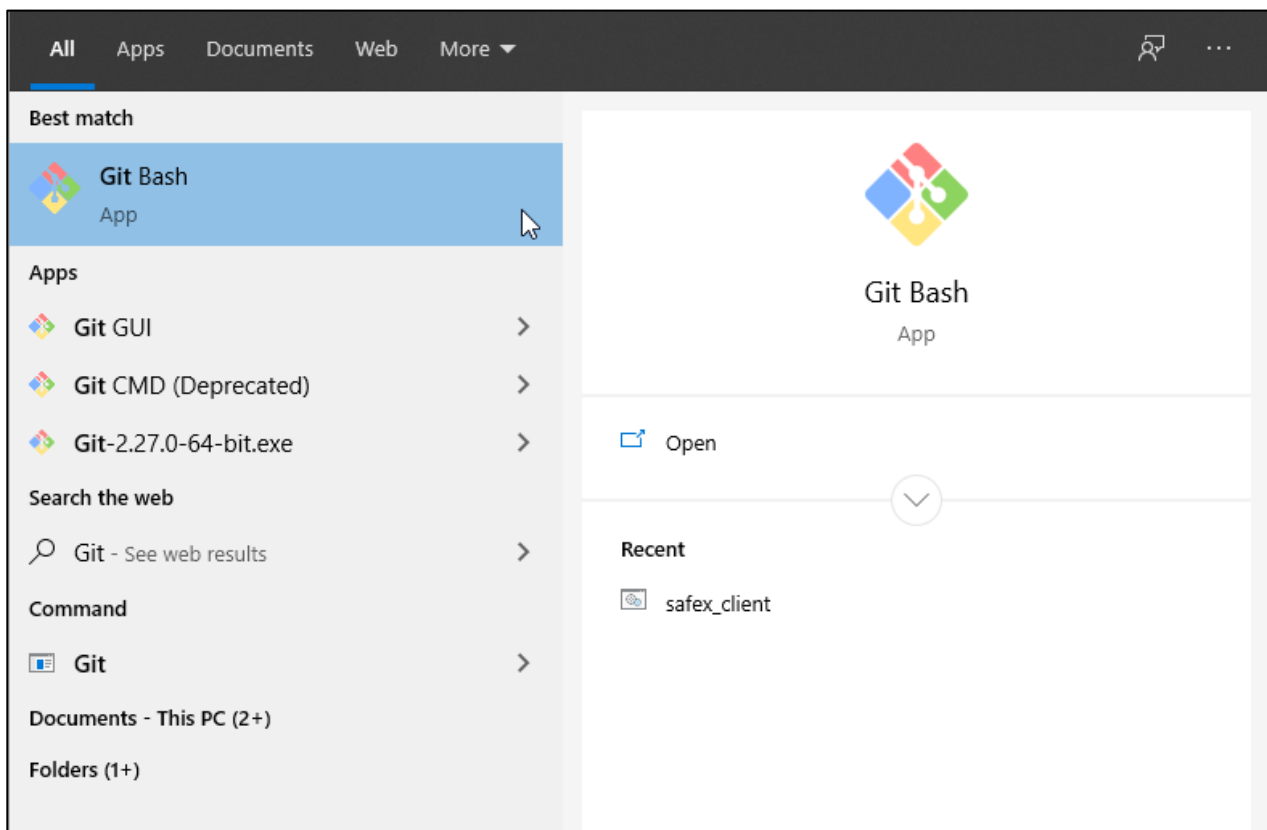
Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

Latest source Release
2.28.0
[Release Notes \(2020-07-27\)](#)
[Download 2.28.0 for Windows](#)

Step 3: In your system type GIT Bash under search option



Step 4: Provide the path of the folder where .pem file is stored. And later execute the command **chmod 400 <Key_pair>**

```
ubuntu@ip-172-31-22-238: ~
```

```
Archana@ED110538 MINGW64 ~
$ Downloads
bash: Downloads: command not found

Archana@ED110538 MINGW64 ~
$ cd Downloads

Archana@ED110538 MINGW64 ~/Downloads
$ chmod 400 edurekakeypair.pem
```

Step 5: Connect to instance via Public DNS.

```
Archana@ED110538 MINGW64 ~/Downloads
$ chmod 400 edurekakeypair.pem

Archana@ED110538 MINGW64 ~/Downloads
$ ssh -i "edurekakeypair.pem" ubuntu@ec2-3-22-116-92.us-east-2.compute.amazonaws.com
The authenticity of host 'ec2-3-22-116-92.us-east-2.compute.amazonaws.com (3.22.116.92)' can't be established.
ECDSA key fingerprint is SHA256:ZX2xQ5Nu97DB+VBgTdZcI36btw0oHfeoL+fpvf8F150.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```


- Enter **yes**

```
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.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-22-238:~$ |
```

Method 3: Using Command Prompt

Step 1: Note the Public IP address and the instance username

Use the command prompt to connect to your EC2 instance and type the following code.

```
ssh -i <.pem file Absolute path> username@public-IP
```

```
ssh -i C:/Users/Archana/Downloads/Key.pem ubuntu@3.22.116.92
```

```
ubuntu@ip-172-31-22-238: ~
C:\>ssh -i C:/Users/Archana/Downloads/edurekakeypair.pem ubuntu@3.22.116.92
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1034-aws x86_64)

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

 * Support:       https://ubuntu.com/advantage

System information as of Fri Sep 11 14:37:03 UTC 2020

System load:  0.0               Processes:    94
Usage of /:   14.6% of 7.69GB   Users logged in:  1
Memory usage: 17%              IP address for eth0: 172.31.22.238
Swap usage:  0%

0 packages can be updated.
0 updates are security updates.

Last login: Fri Sep 11 14:25:14 2020 from 106.193.236.180
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-22-238:~$
```