

AWS EC2

Demo Document

edureka!

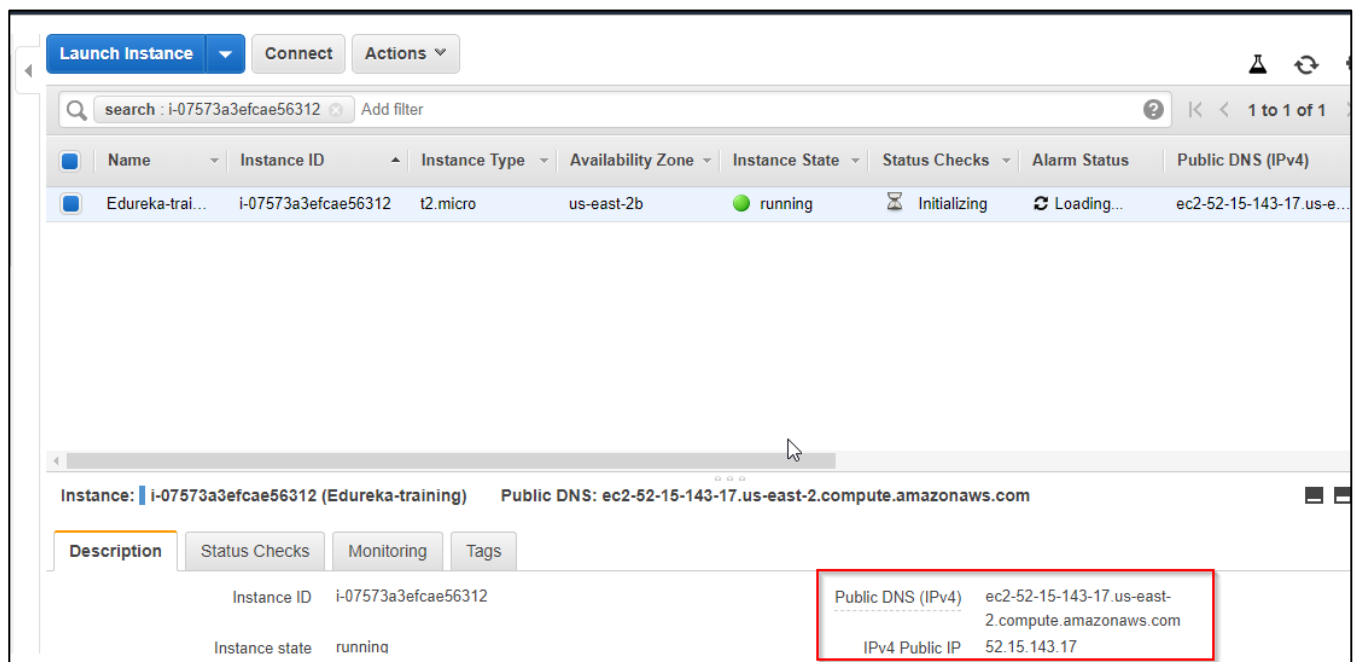
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Different Approaches to connect to an EC2 instance:

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.

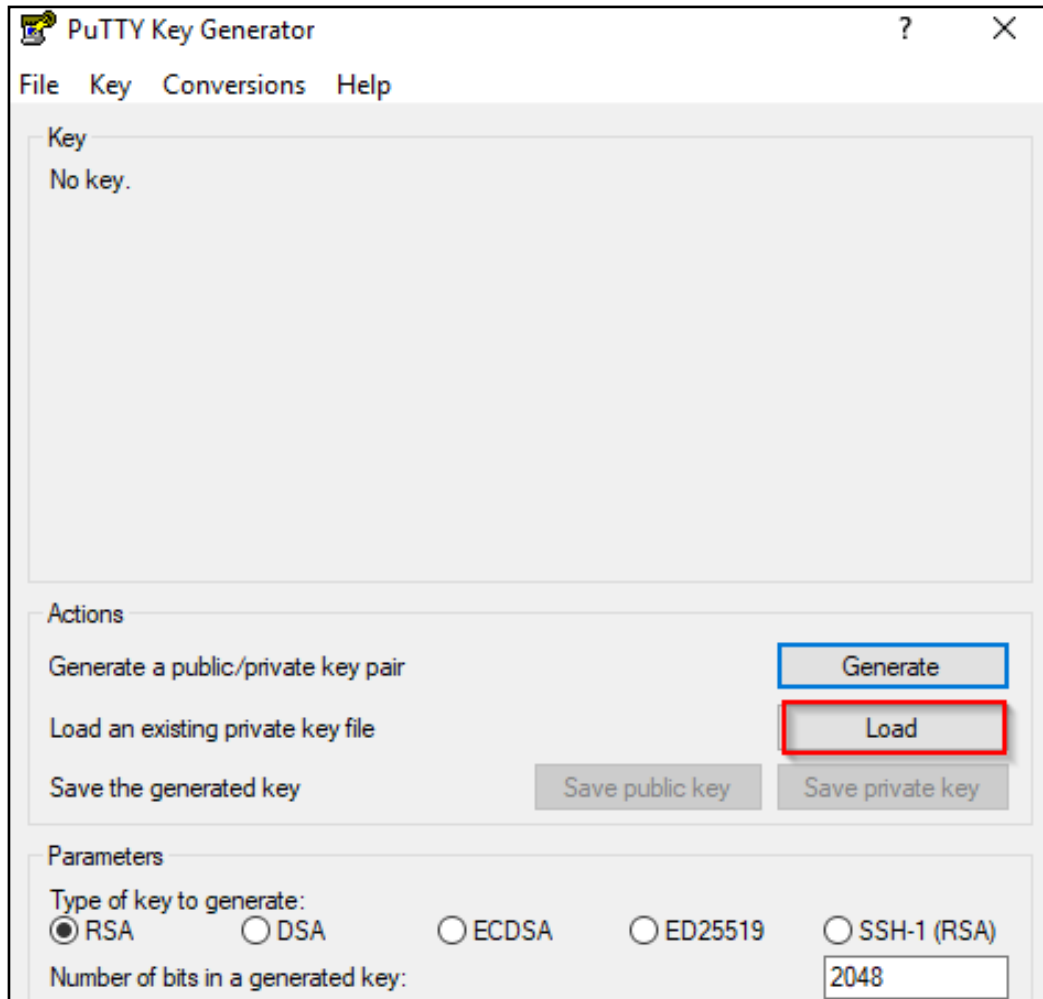


For Window users -- Convert the downloaded **.pem** file to PPK file using PuTTYgen software

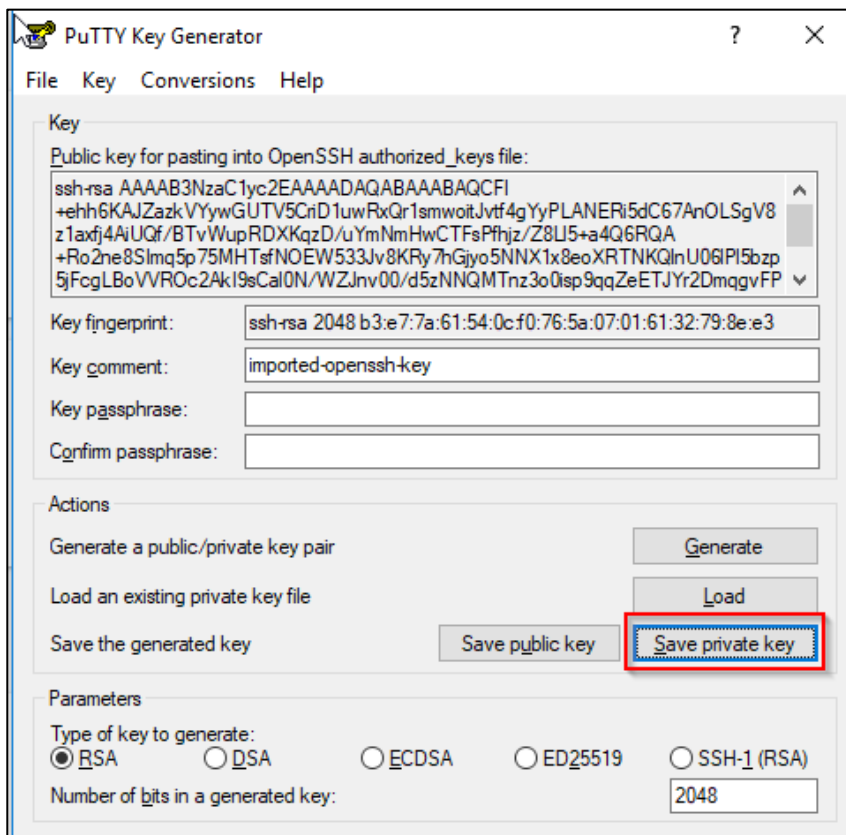
The different usernames for the AMIs are:

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

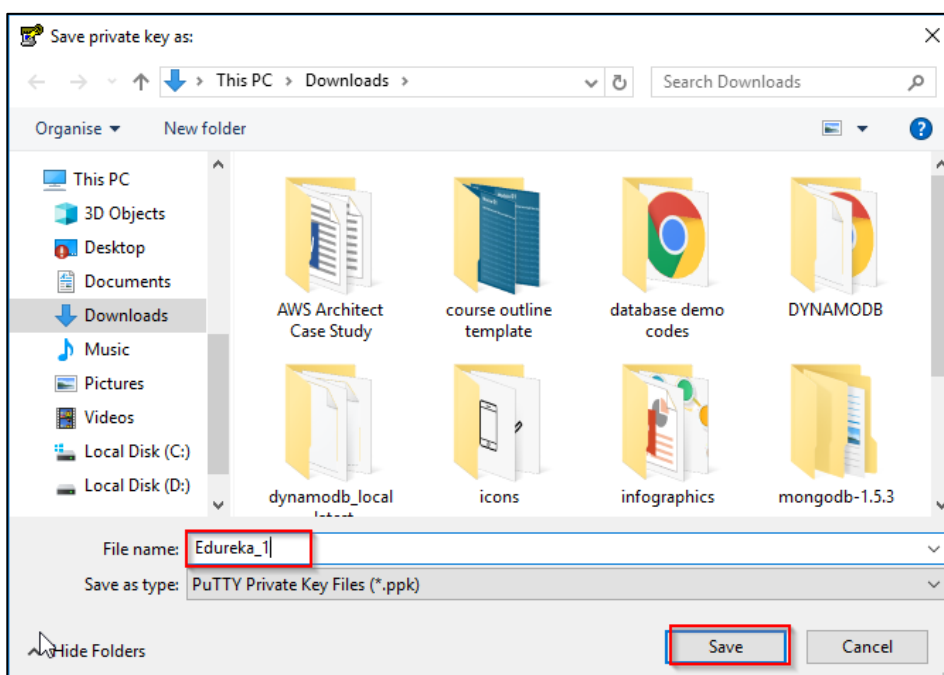
Step 1: Download PuTTY through <https://www.putty.org> and install it. In your task bar of your local system, search for PuTTYgen and select it. PuTTYgen dialogue box appears, then select **Load** option. Search for the key pair file which would be in the .pem format and open it



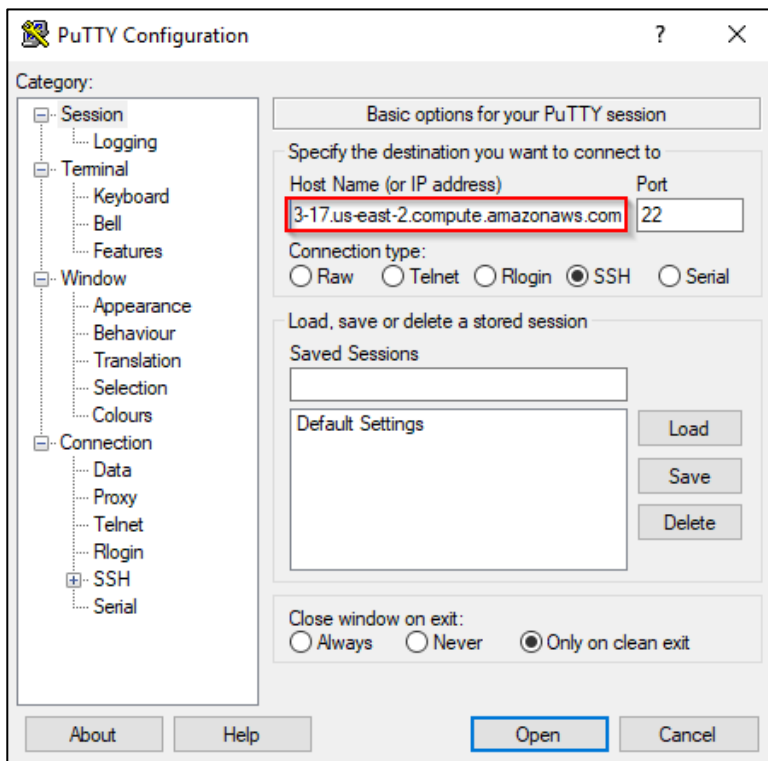
Step 2: Click on “Load”, make file type as “All Files”, select the downloaded .pem file to convert it to .ppk file, and click on “Save private key”.



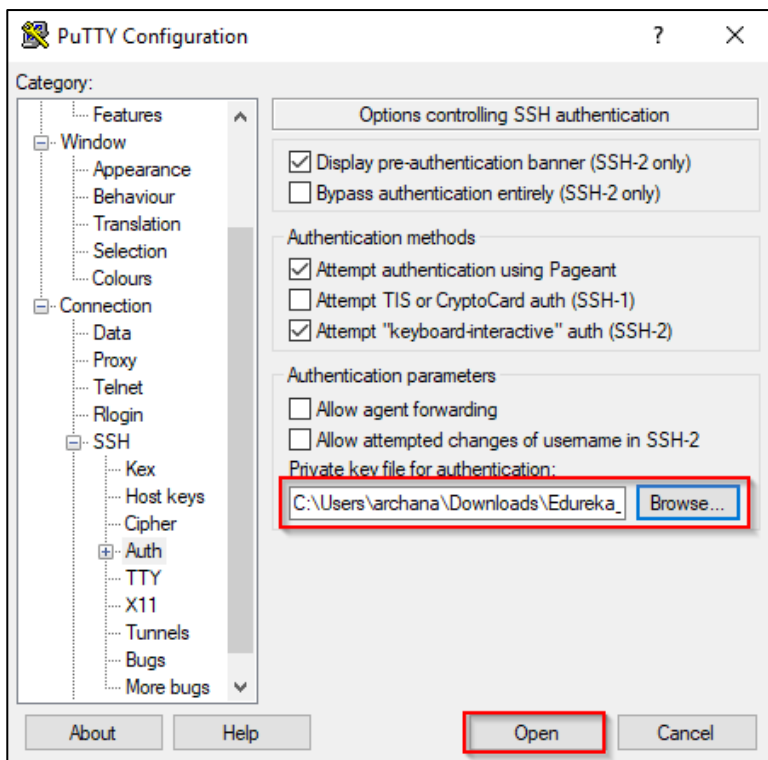
Step 3: Give a name to the .ppk file and save it in your system.



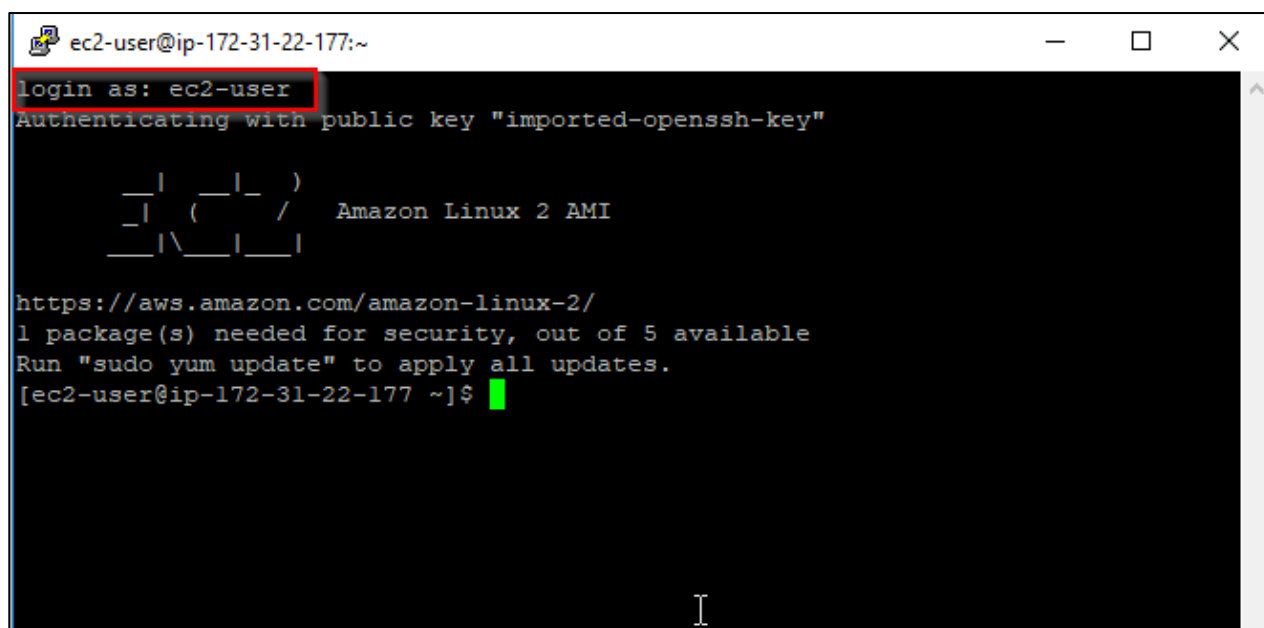
Step 4: Open putty and paste the copied **Instance DNS**.



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 "ec2-user@ip-172-31-22-177:~" showing the process of logging into an Amazon Linux 2 instance via SSH. The prompt "login as: ec2-user" is highlighted with a red box. The terminal output includes the authentication message, the Amazon Linux 2 logo, the URL "https://aws.amazon.com/amazon-linux-2/", and a security update notification. The prompt ends with a green cursor.

```
ec2-user@ip-172-31-22-177:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
  
  _ | _ | _ )  
  _ | ( _ | /   Amazon Linux 2 AMI  
  _ | \ _ | _ |  
  
https://aws.amazon.com/amazon-linux-2/  
1 package(s) needed for security, out of 5 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-22-177 ~]$
```

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

Search entire site...

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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.

Latest source Release

2.28.0

[Release Notes \(2020-07-27\)](#)

Download 2.28.0 for Windows

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.

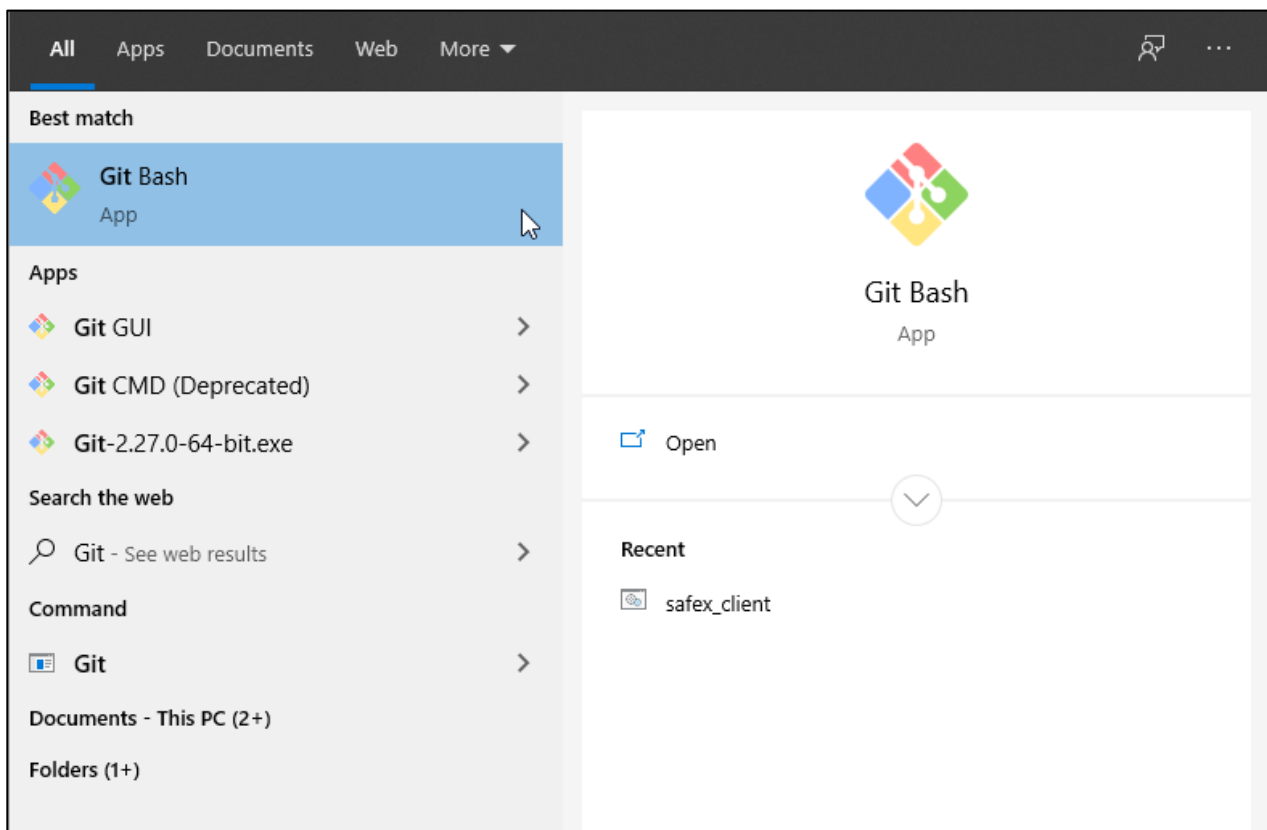
[View GUI Clients →](#)

Logos

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

[View Logos →](#)

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:~$
```