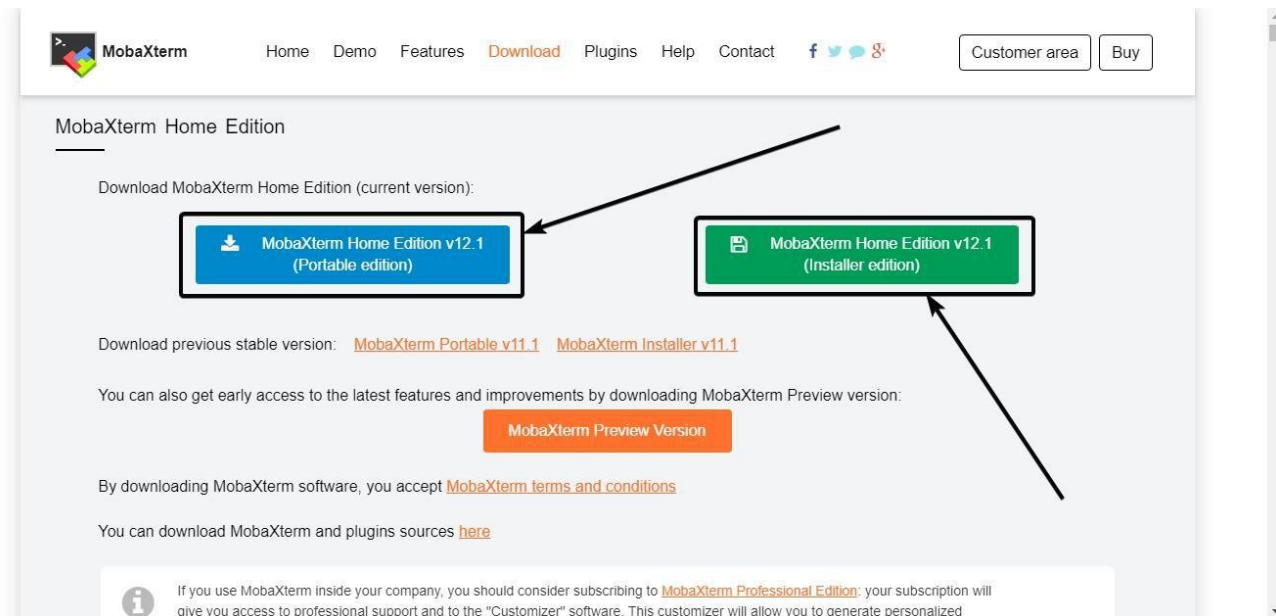


For Windows Users

Steps to Login to EC2 Using MobaXterm SSH Client

Download Home Edition for Windows 10/8/7

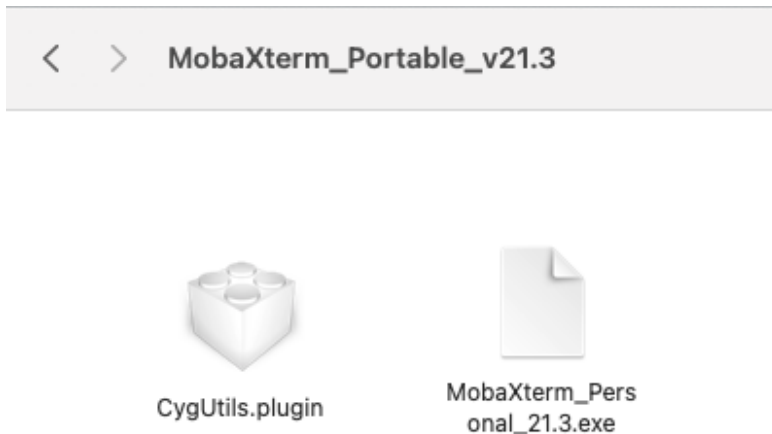
<https://mobaxterm.mobatek.net/download-home-edition.html>



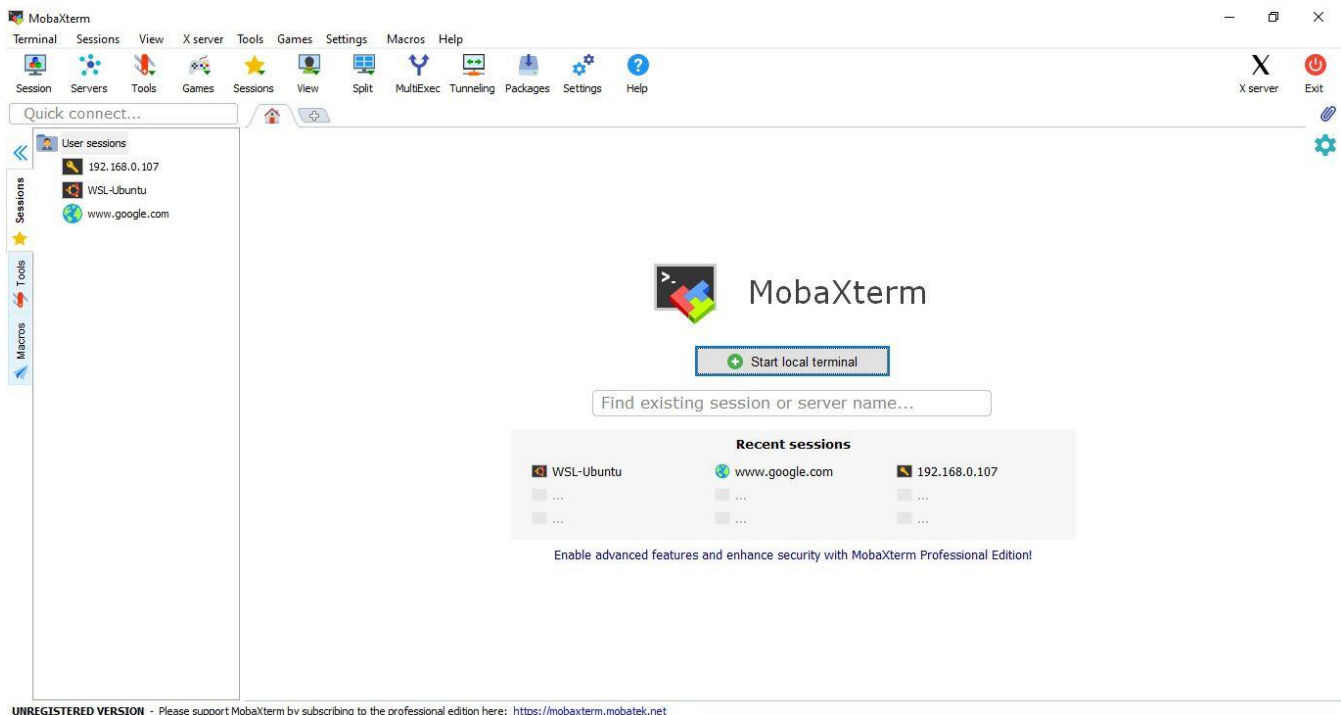
Download Portable Edition & Extract it



Open the Extracted Folder & run the .exe file

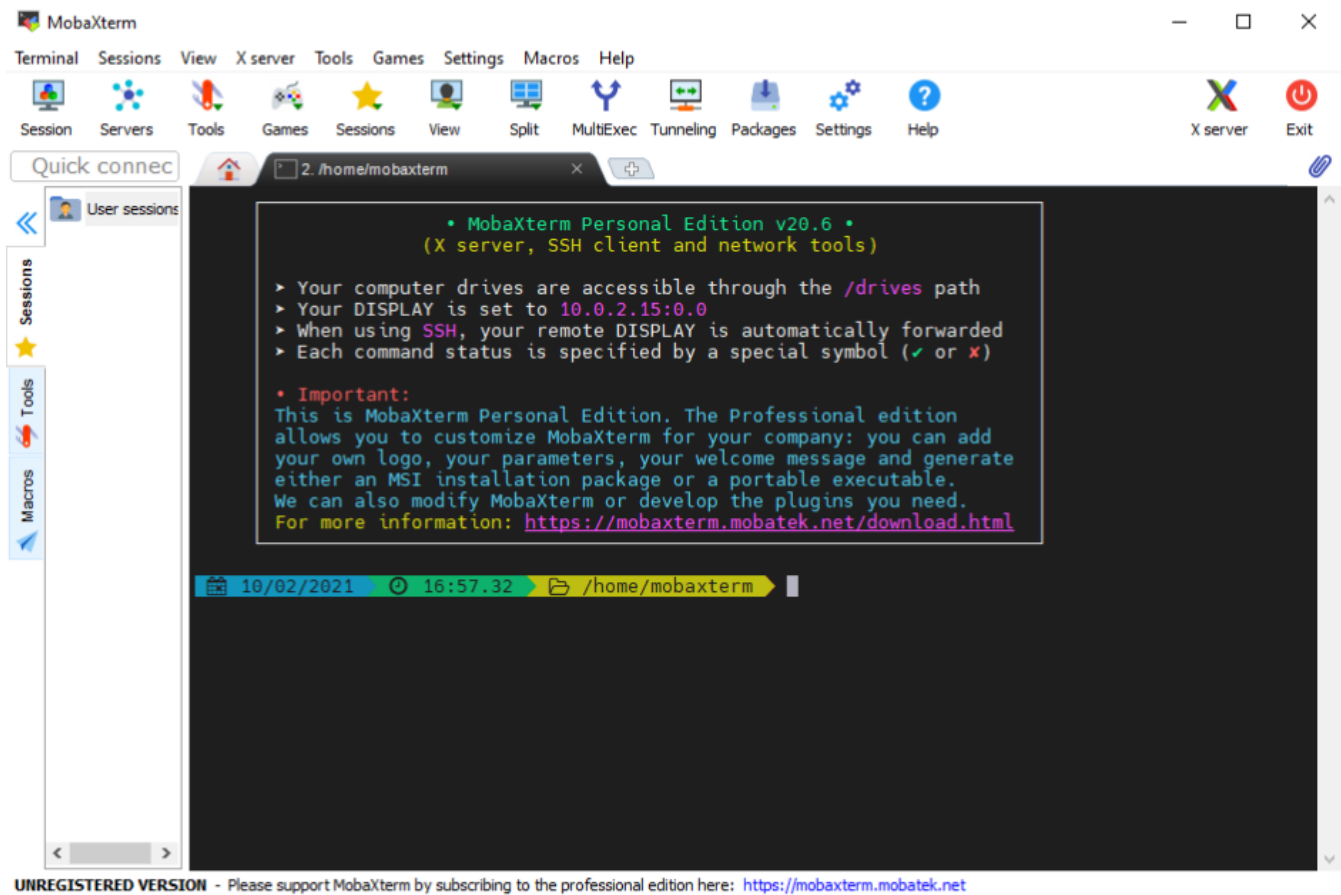


You will See the Screen as Below



You can start a local terminal by clicking on the **'Start local terminal'** button on the home screen of MobaXterm

it open a terminal window where you can type Linux-like commands as below

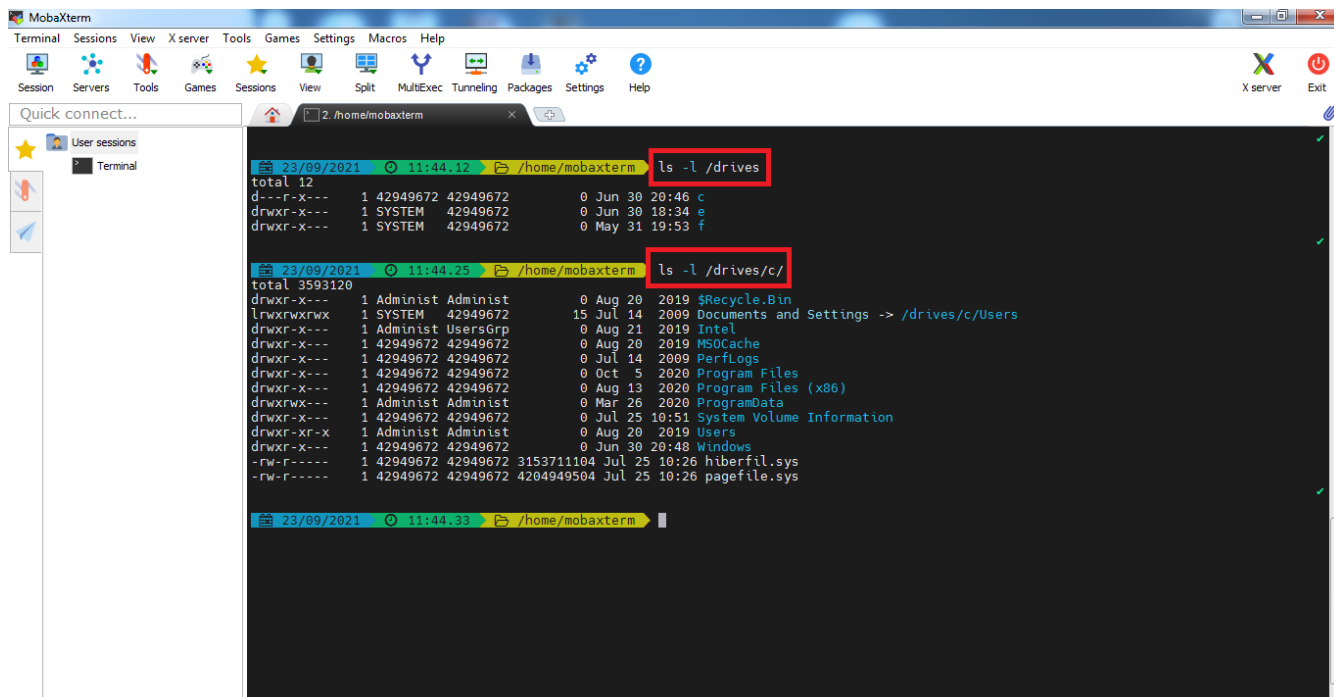


Connect to EC2 Instance with .pem file

locate the **“.pem”** downloaded during ec2 creation – usually it will be in downloads folder of the user

Note: if you changed the your default downloads location please find it accordingly

you can find the downloads folder on mobaXterm terminal as below

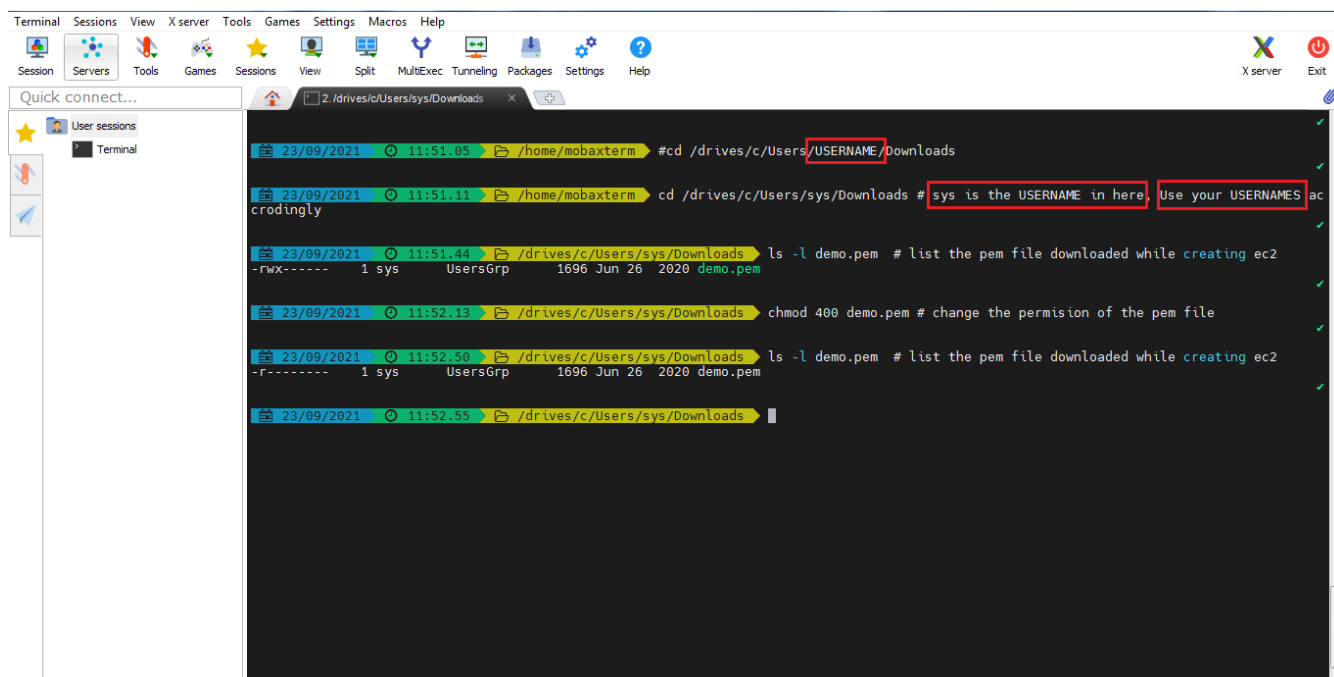


The screenshot shows the MobaXterm terminal interface. The terminal window is titled '2: /home/mobaxterm'. The command prompt shows the user is at the root directory. The command `ls -l /drives` is entered and executed, showing the contents of the /drives directory. The output is as follows:

```
total 12
d---r-x--- 1 42949672 42949672  0 Jun 30 20:46 c
drwxr-x--- 1 SYSTEM 42949672  0 Jun 30 18:34 e
drwxr-x--- 1 SYSTEM 42949672  0 May 31 19:53 f
```

The command `ls -l /drives/c/` is then entered and executed, showing the contents of the /drives/c/ directory. The output is as follows:

```
total 3593120
drwxr-x--- 1 Administ Administ  0 Aug 20 2019 $Recycle.Bin
lrwxrwxrwx 1 SYSTEM 42949672 15 Jul 14 2009 Documents and Settings -> /drives/c/Users
drwxr-x--- 1 Administ UsersGrp  0 Aug 21 2019 Intel
drwxr-x--- 1 42949672 42949672  0 Aug 20 2019 MSOCache
drwxr-x--- 1 42949672 42949672  0 Jul 14 2009 PerfLogs
drwxr-x--- 1 42949672 42949672  0 Oct  5 2020 Program Files
drwxr-x--- 1 42949672 42949672  0 Aug 13 2020 Program Files (x86)
drwxrwx--- 1 Administ Administ  0 Mar 26 2020 ProgramData
drwxr-x--- 1 42949672 42949672  0 Jul 25 19:51 System Volume Information
drwxr-xr-x 1 Administ Administ  0 Aug 20 2019 Users
drwxr-x--- 1 42949672 42949672  0 Jun 30 20:48 Windows
-rw-r----- 1 42949672 42949672 3153711104 Jul 25 10:26 hiberfil.sys
-rw-r----- 1 42949672 42949672 4204949504 Jul 25 10:26 pagefile.sys
```



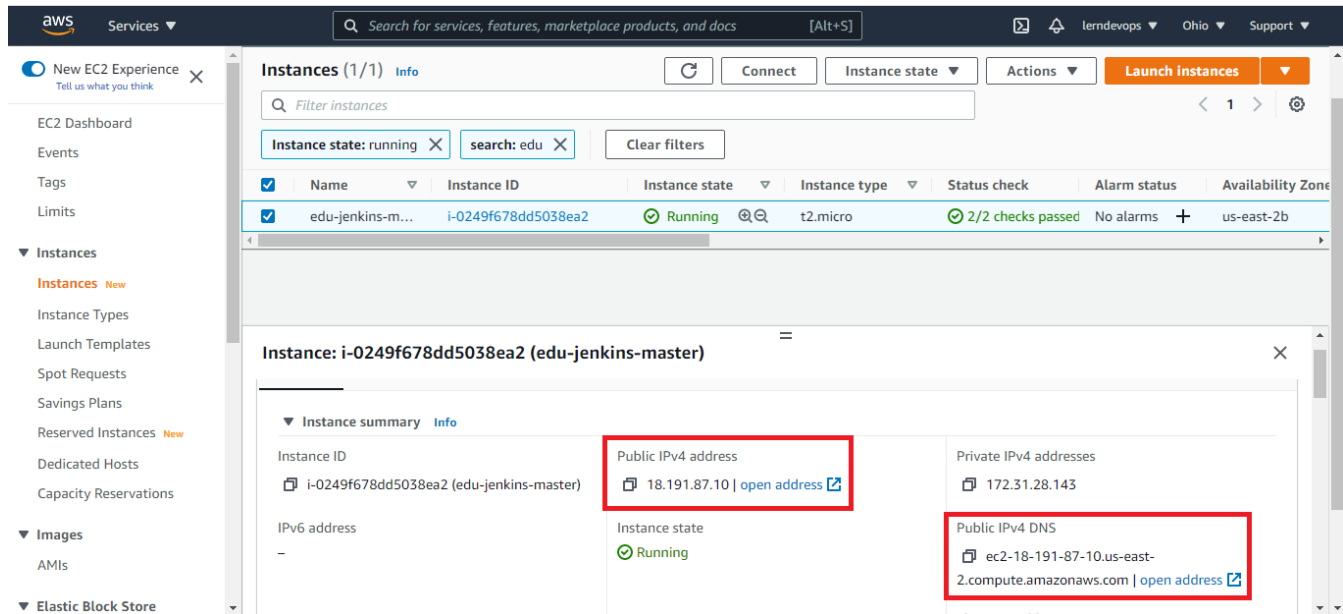
The screenshot shows the MobaXterm terminal interface. The terminal window is titled '2: /drives/c/Users/sys/Downloads'. The command prompt shows the user is at the root directory. The command `#cd /drives/c/Users/USERNAME/Downloads` is entered and executed, showing the contents of the /drives/c/Users/sys/Downloads directory. The output is as follows:

```
total 16
-rwx----- 1 sys UsersGrp 1696 Jun 26 2020 demo.pem
```

The command `chmod 400 demo.pem` is then entered and executed, showing the contents of the /drives/c/Users/sys/Downloads directory. The output is as follows:

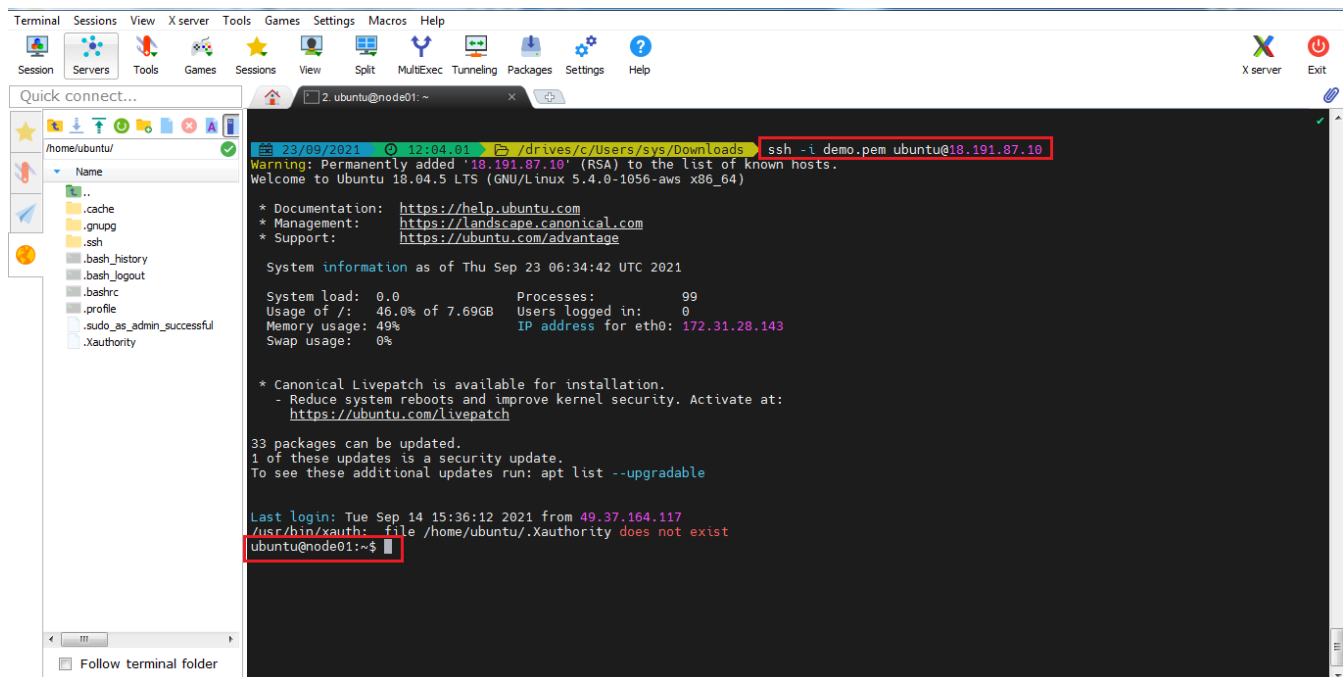
```
total 16
-r----- 1 sys UsersGrp 1696 Jun 26 2020 demo.pem
```

find the ec2 instance PublicIP from AWS Console



use the ssh command as shown in below screenshot to login to ec2 instance

1) `ssh -i demo.pem ubuntu@publicip-of-ec2`



setup custom hostname for linux machine

- 1) `sudo su -`
- 2) `hostnamectl set-hostname testserver`
- 3) `logout`

```
ubuntu@node01:~$  
ubuntu@node01:~$ sudo su -  
root@node01:~#  
root@node01:~# hostnamectl set-hostname jenkins-server  
root@node01:~# cat /etc/hostname  
jenkins-server  
root@node01:~# exit  
logout  
ubuntu@node01:~$ exit  
logout  
Connection to 18.191.87.10 closed.
```

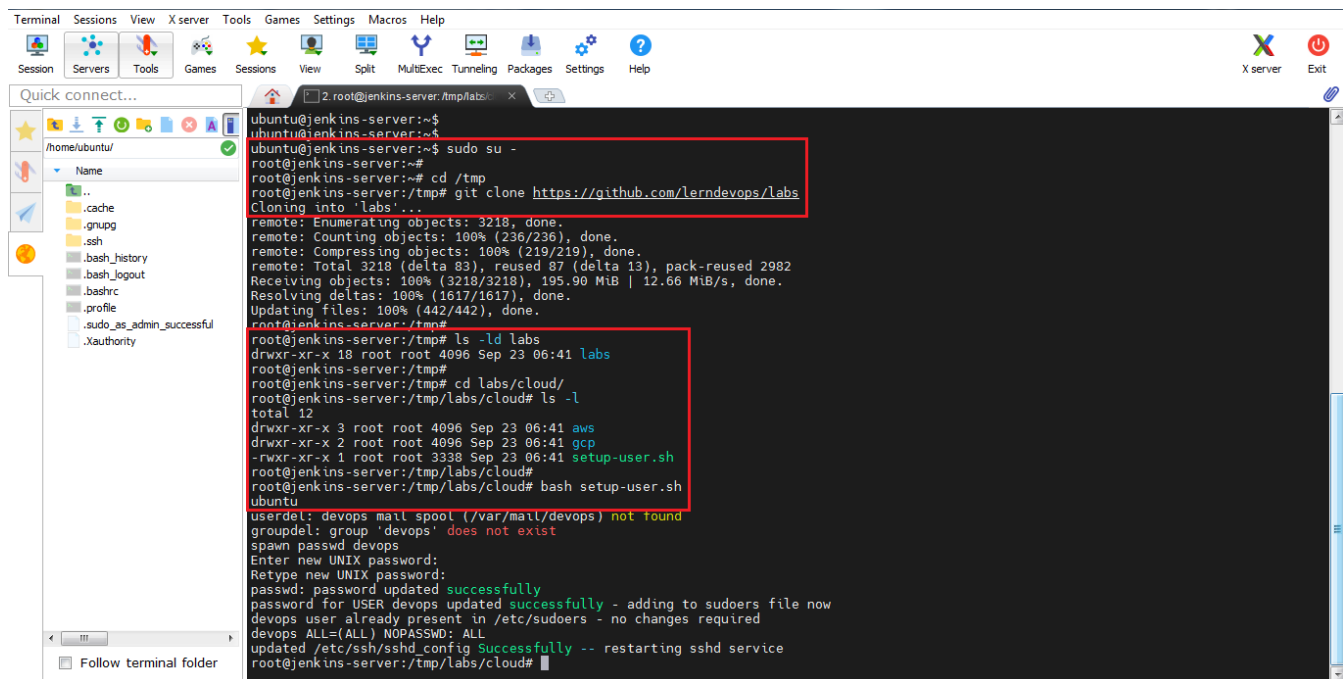
logout of the linux machine & re login to validate the hostname is set properly

```
23/09/2021 12:06:51 /drives/c/Users/sys/Downloads ssh -i demo.pem ubuntu@18.191.87.10  
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1056-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Thu Sep 23 06:37:00 UTC 2021  
  
System load:  0.01          Processes:      100  
Usage of /:   46.0% of 7.69GB Users logged in: 0  
Memory usage: 49%          IP address for eth0: 172.31.28.143  
Swap usage:   0%  
  
* Canonical Livepatch is available for installation.  
- Reduce system reboots and improve kernel security. Activate at:  
  https://ubuntu.com/livepatch  
  
33 packages can be updated.  
1 of these updates is a security update.  
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: Thu Sep 23 06:34:44 2021 from 49.37.162.37  
ubuntu@jenkins-server:~$  
ubuntu@jenkins-server:~$
```

setup a custom username & password for linux instance on Cloud

clone a the git repo given & run setup-user.sh script as root user

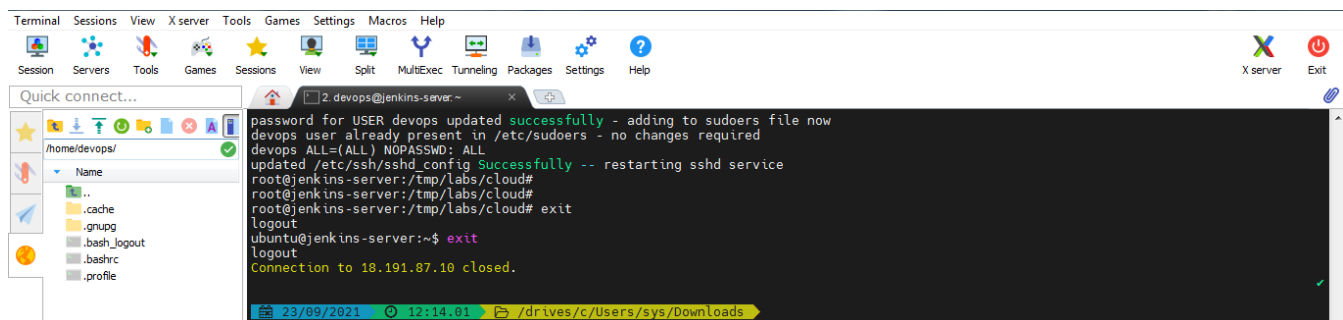
1. `sudo su -`
2. `cd /tmp ; git clone https://github.com/lerndevops/labs`
3. `cd /tmp/labs/cloud`
4. `bash setup-user.sh`



The screenshot shows a terminal window with the following commands and output:

```
ubuntu@jenkins-server:~$ sudo su -
root@jenkins-server:~# cd /tmp
root@jenkins-server:/tmp# git clone https://github.com/lerndevops/labs
Cloning into 'labs'...
remote: Enumerating objects: 3218, done.
remote: Counting objects: 100% (236/236), done.
remote: Compressing objects: 100% (219/219), done.
remote: Total 3218 (delta 83), reused 87 (delta 13), pack-reused 2982
Receiving objects: 100% (3218/3218), 195.90 MiB | 12.66 MiB/s, done.
Resolving deltas: 100% (1617/1617), done.
Updating files: 100% (442/442), done.
root@jenkins-server:/tmp# ls -ld labs
drwxr-xr-x 18 root root 4096 Sep 23 06:41 labs
root@jenkins-server:/tmp# cd labs/cloud/
root@jenkins-server:/tmp/labs/cloud# ls -l
total 12
drwxr-xr-x 3 root root 4096 Sep 23 06:41 aws
drwxr-xr-x 2 root root 4096 Sep 23 06:41 gcp
-rwxr-xr-x 1 root root 3338 Sep 23 06:41 setup-user.sh
root@jenkins-server:/tmp/labs/cloud# bash setup-user.sh
ubuntu
userdel: devops mail spool (/var/mail/devops) not found
groupdel: group 'devops' does not exist
spawn passwd devops
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
password for USER devops updated successfully - adding to sudoers file now
devops user already present in /etc/sudoers - no changes required
devops ALL=(ALL) NOPASSWD: ALL
updated /etc/ssh/sshd_config Successfully -- restarting sshd service
root@jenkins-server:/tmp/labs/cloud#
```

logout of the server once the script executed successfully



The screenshot shows the terminal window after the script has completed its execution:

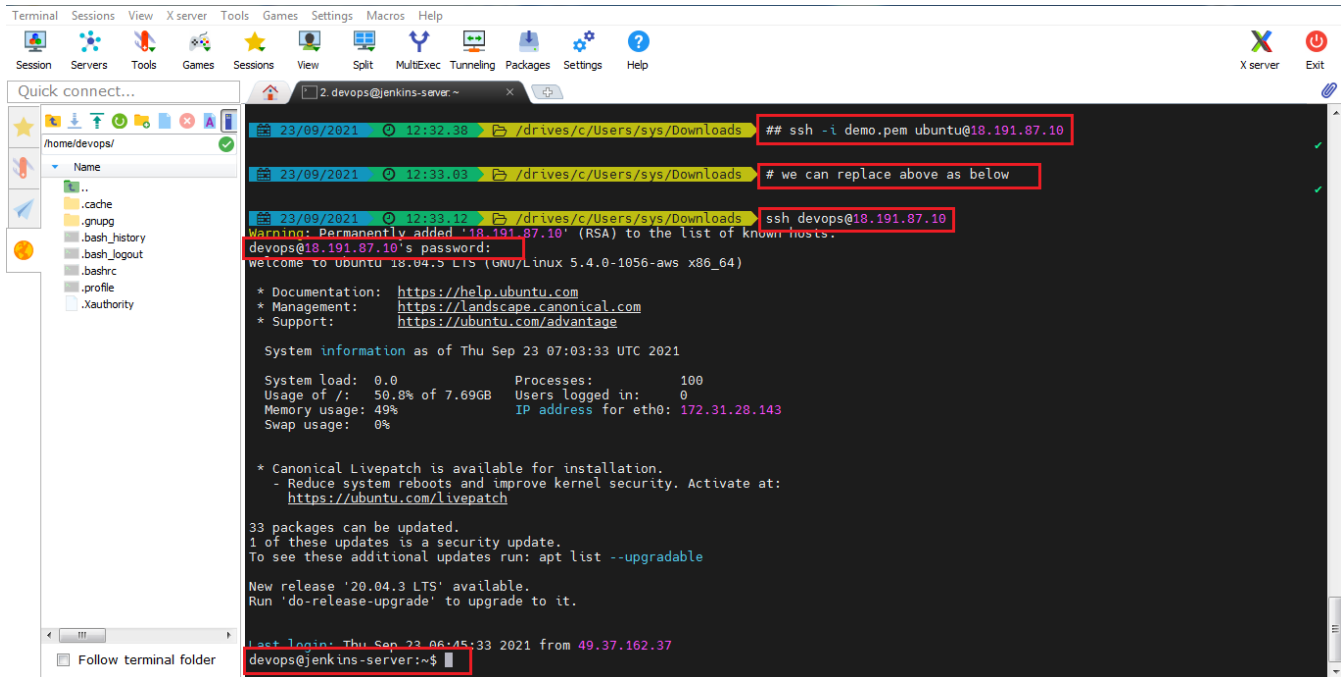
```
password for USER devops updated successfully - adding to sudoers file now
devops user already present in /etc/sudoers - no changes required
devops ALL=(ALL) NOPASSWD: ALL
updated /etc/ssh/sshd_config Successfully -- restarting sshd service
root@jenkins-server:/tmp/labs/cloud#
root@jenkins-server:/tmp/labs/cloud# exit
logout
ubuntu@jenkins-server:~$ exit
Connection to 18.191.87.10 closed.
```

login back to the server using the username set by script

defaults are:

username: **devops**

password: **today@1234**



The screenshot shows a terminal window with a menu bar (Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help) and a toolbar. On the left is a 'Quick connect...' sidebar with a file explorer showing the path /home/devops/. The terminal window title is '2. devops@jenkins-server: ~'. The terminal output shows the execution of the command `ssh -i demo.pem ubuntu@18.191.87.10`, followed by a warning about adding the host to the known hosts list, and the password prompt. The user then logs in as 'devops' on the '18.191.87.10' host. The terminal displays the Ubuntu 18.04.3 LTS welcome message, system information, and update notifications. The prompt at the bottom is `devops@jenkins-server:~$`.

```
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
/home/devops/
Name
.cache
.gnupg
.bash_history
.bash_logout
.bashrc
.profile
.Xauthority
2. devops@jenkins-server: ~
23/09/2021 12:32:38 /drives/c/Users/sys/Downloads ## ssh -i demo.pem ubuntu@18.191.87.10
23/09/2021 12:33:03 /drives/c/Users/sys/Downloads # we can replace above as below
23/09/2021 12:33:12 /drives/c/Users/sys/Downloads ssh devops@18.191.87.10
Warning: Permanently added '18.191.87.10' (RSA) to the list of known hosts.
devops@18.191.87.10's password:
welcome to Ubuntu 18.04.3 LTS (GNU/Linux 5.4.0-1056-aws x86_64)

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

System information as of Thu Sep 23 07:03:33 UTC 2021

System load:  0.0          Processes:      100
Usage of /:   50.8% of 7.69GB Users logged in: 0
Memory usage: 49%         IP address for eth0: 172.31.28.143
Swap usage:   0%

 * Canonical Livepatch is available for installation.
   - Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch

33 packages can be updated.
1 of these updates is a security update.
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: Thu Sep 23 06:45:33 2021 from 49.37.162.37
devops@jenkins-server:~$
```