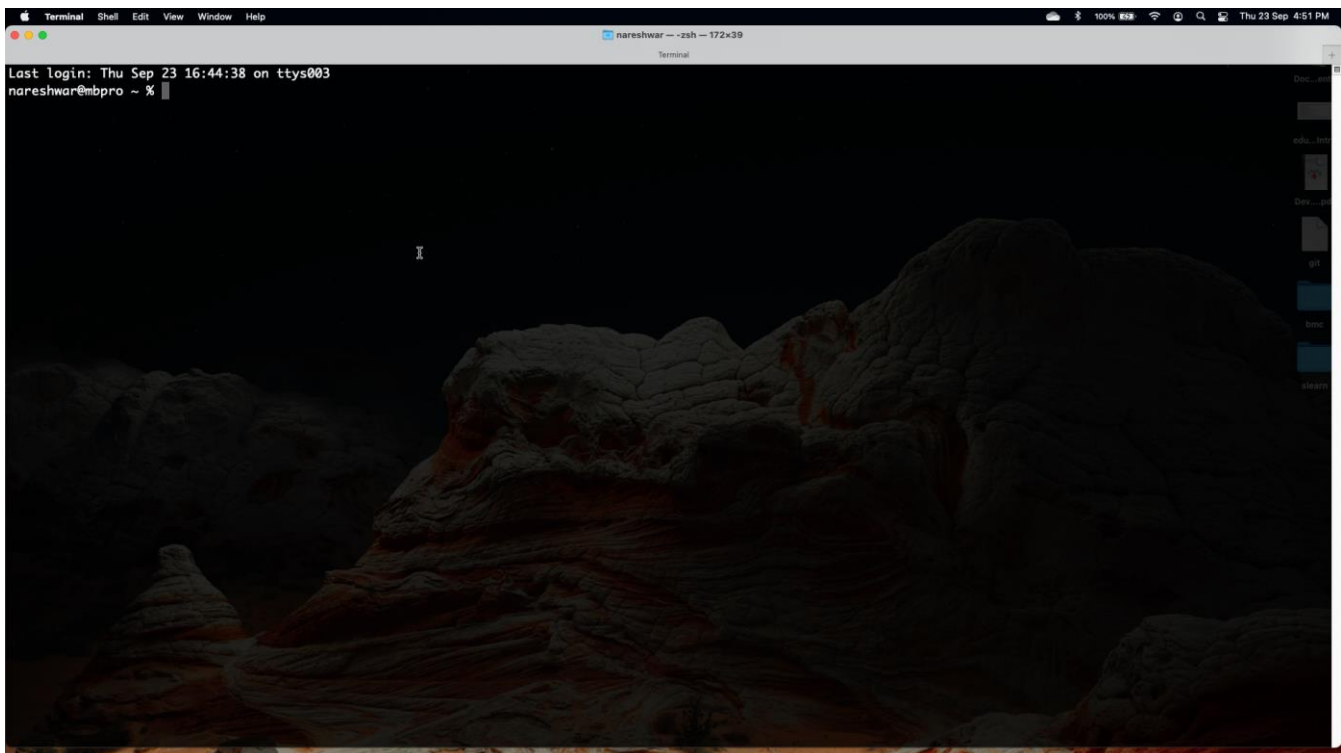
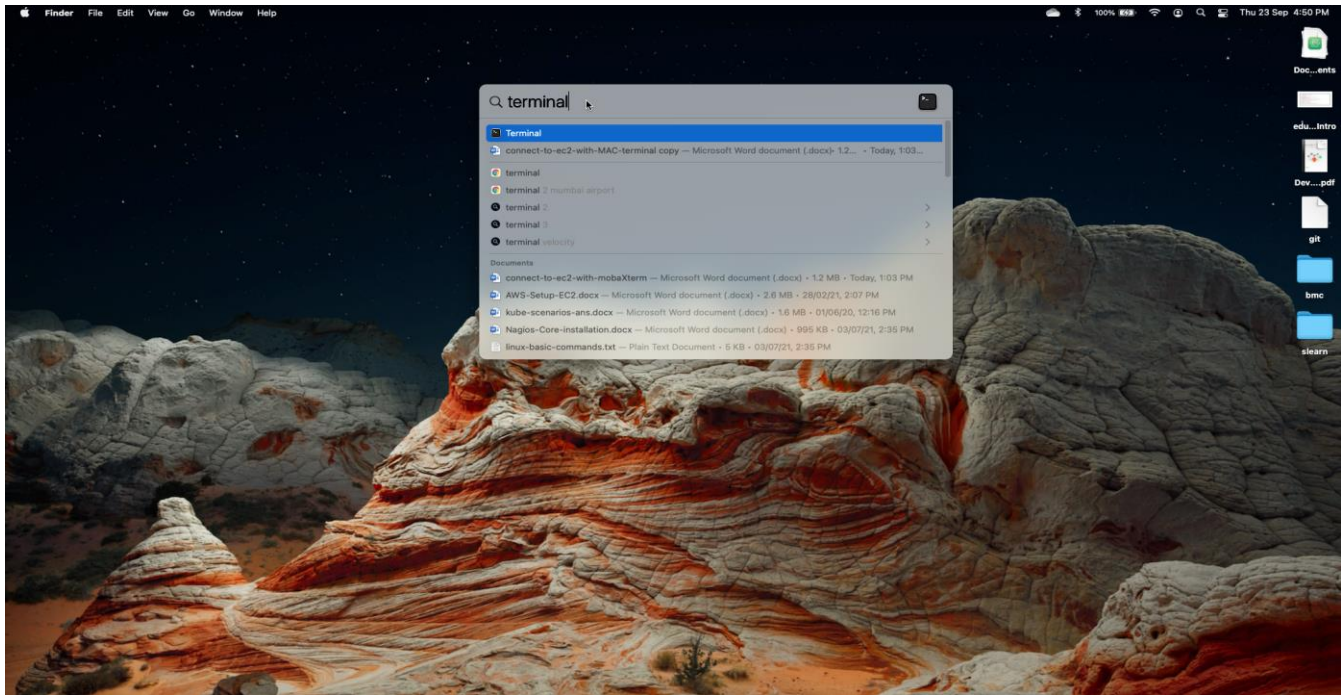


## For MAC Users

## Steps to Login to EC2 Using MAC Terminal SSH Client

Mac Terminal is default with MAC Laptops, no need to install any additional tool

use the spotlight search to search for terminal & open



## Connect to EC2 Instance with .pem file

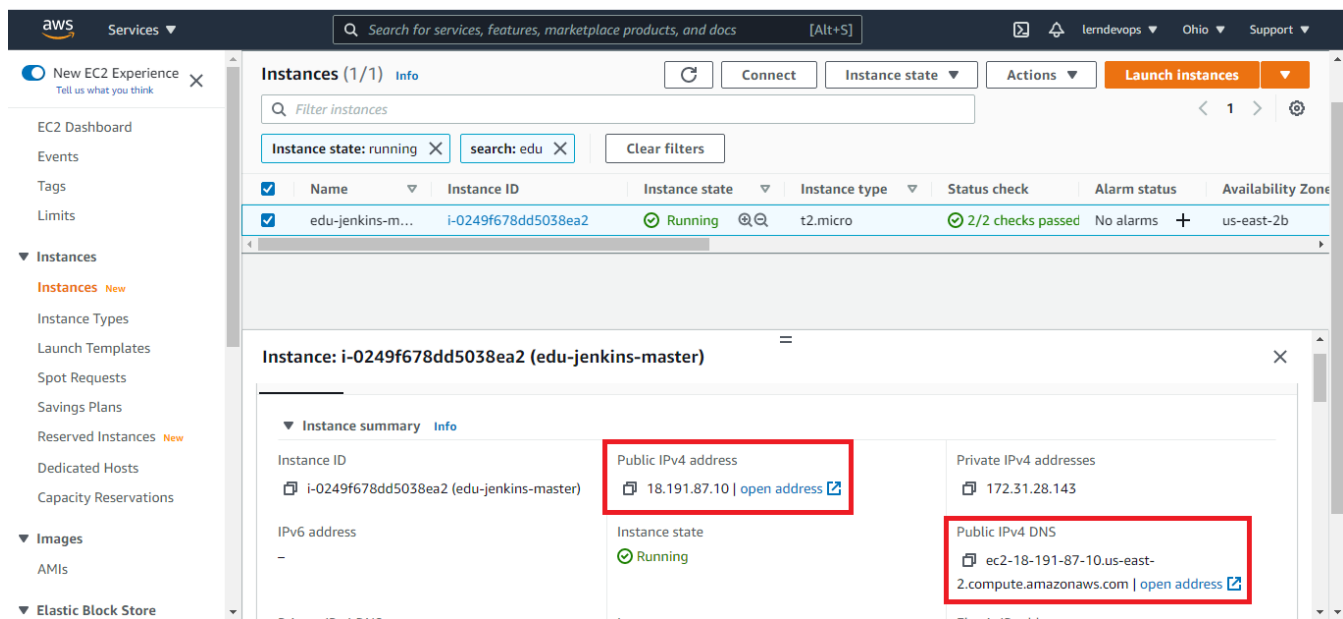
locate the **“.pem”** downloaded during ec2 creation – usually it will be in downloads folder of the user

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

you can find the downloads folder on MAC terminal as below

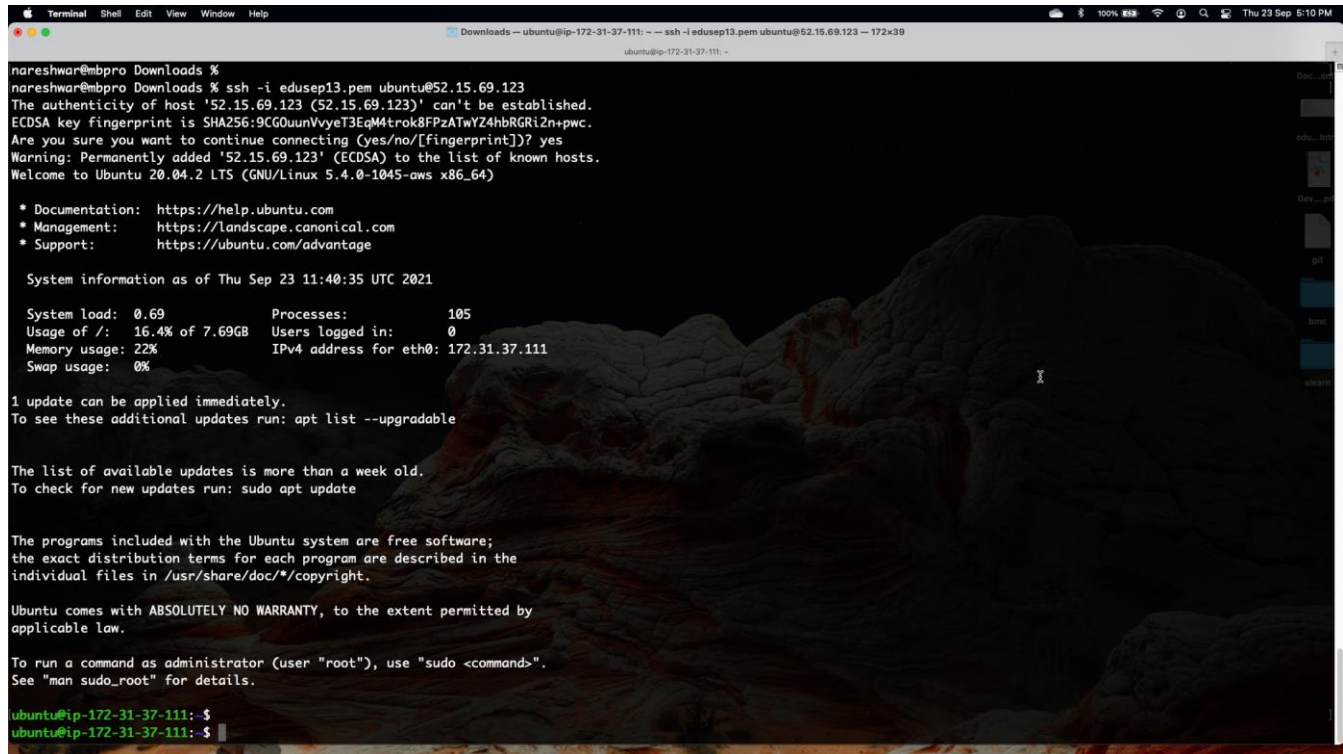
```
nareshwar@mbpro ~ %  
nareshwar@mbpro ~ % pwd  
/Users/nareshwar  
nareshwar@mbpro ~ % ls -l /Users  
total 0  
drwxrwxrwt 10 root      wheel   320 Jun 21 22:52 Shared  
drwxr-xr-x+ 25 devops   staff   800 Sep  7 20:29 devops  
drwxr-xr-x+ 40 nareshwar staff 1280 Sep 23 16:50 nareshwar  
drwxr-xr-x  10 nareshwar staff  320 Aug 23 09:19 tdata  
nareshwar@mbpro ~ %  
nareshwar@mbpro ~ % cd /Users/USERNAME # goto the user home where the .pem is downloaded  
nareshwar@mbpro ~ %  
nareshwar@mbpro ~ % cd /Users/nareshwar  
nareshwar@mbpro ~ % ls -ld Downloads  
drwx-----@ 19 nareshwar staff 608 Sep 23 13:03 Downloads  
nareshwar@mbpro ~ %  
nareshwar@mbpro ~ % cd Downloads  
nareshwar@mbpro Downloads % pwd  
/Users/nareshwar/Downloads  
nareshwar@mbpro Downloads %  
nareshwar@mbpro Downloads % ls -l edusep13.pem  
-rw-----@ 1 nareshwar staff 1700 Sep 14 20:54 edusep13.pem  
nareshwar@mbpro Downloads % chmod 400 edusep13.pem  
nareshwar@mbpro Downloads %  
nareshwar@mbpro Downloads %
```

## 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`



The screenshot shows a terminal window on a Mac. The user 'nareshwar@mbpro' is in the 'Downloads' directory. They execute the command `ssh -i edusep13.pem ubuntu@52.15.69.123`. The terminal displays the SSH warning about the host's authenticity, the ECDSA key fingerprint, and a confirmation to add the host to the known hosts list. After accepting, the user is logged into the Ubuntu 20.04.2 LTS instance. The terminal shows system information, including system load, processes, memory usage, and available updates. The user is prompted to run `apt update` to check for updates. The terminal ends with the prompt `ubuntu@ip-172-31-37-111:~$`.

```
nareshwar@mbpro Downloads %  
nareshwar@mbpro Downloads % ssh -i edusep13.pem ubuntu@52.15.69.123  
The authenticity of host '52.15.69.123 (52.15.69.123)' can't be established.  
ECDSA key fingerprint is SHA256:9CG0uunVvyeT3EqM4tr0k8FPzATwYZ4hbRGRi2n+pw.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '52.15.69.123' (ECDSA) to the list of known hosts.  
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-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 11:40:35 UTC 2021  
  
System load:  0.69           Processes:            105  
Usage of /:   16.4% of 7.69GB Users logged in:          0  
Memory usage: 22%           IPv4 address for eth0: 172.31.37.111  
Swap usage:   0%  
  
1 update can be applied immediately.  
To see these additional updates run: apt list --upgradable  
  
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.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-37-111:~$  
ubuntu@ip-172-31-37-111:~$
```

## setup custom hostname for linux machine

- 1) `sudo su -`
- 2) `hostnamectl set-hostname testnode01`
- 3) `logout` & `login` back

```
Terminal Shell Edit View Window Help
Downloads — ubuntu@testnode01: ~ — ssh -i edusep13.pem ubuntu@52.15.69.123 — 172x39
ubuntu@ip-172-31-37-111:~$
ubuntu@ip-172-31-37-111:~$ sudo su -
root@ip-172-31-37-111:~#
root@ip-172-31-37-111:~# hostnamectl set-hostname testnode01
root@ip-172-31-37-111:~#
root@ip-172-31-37-111:~# cat /etc/hostname
testnode01
root@ip-172-31-37-111:~#
root@ip-172-31-37-111:~# logout
ubuntu@ip-172-31-37-111:~$ logout
Connection to 52.15.69.123 closed.
nareshwar@mbpro Downloads % ssh -i edusep13.pem ubuntu@52.15.69.123
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-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 11:42:37 UTC 2021

System load:  0.09          Processes:      103
Usage of /:   16.5% of 7.69GB Users logged in:  0
Memory usage: 22%          IPv4 address for eth0: 172.31.37.111
Swap usage:   0%

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable

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

Last login: Thu Sep 23 11:40:37 2021 from 49.37.162.37
ubuntu@testnode01:~$
```

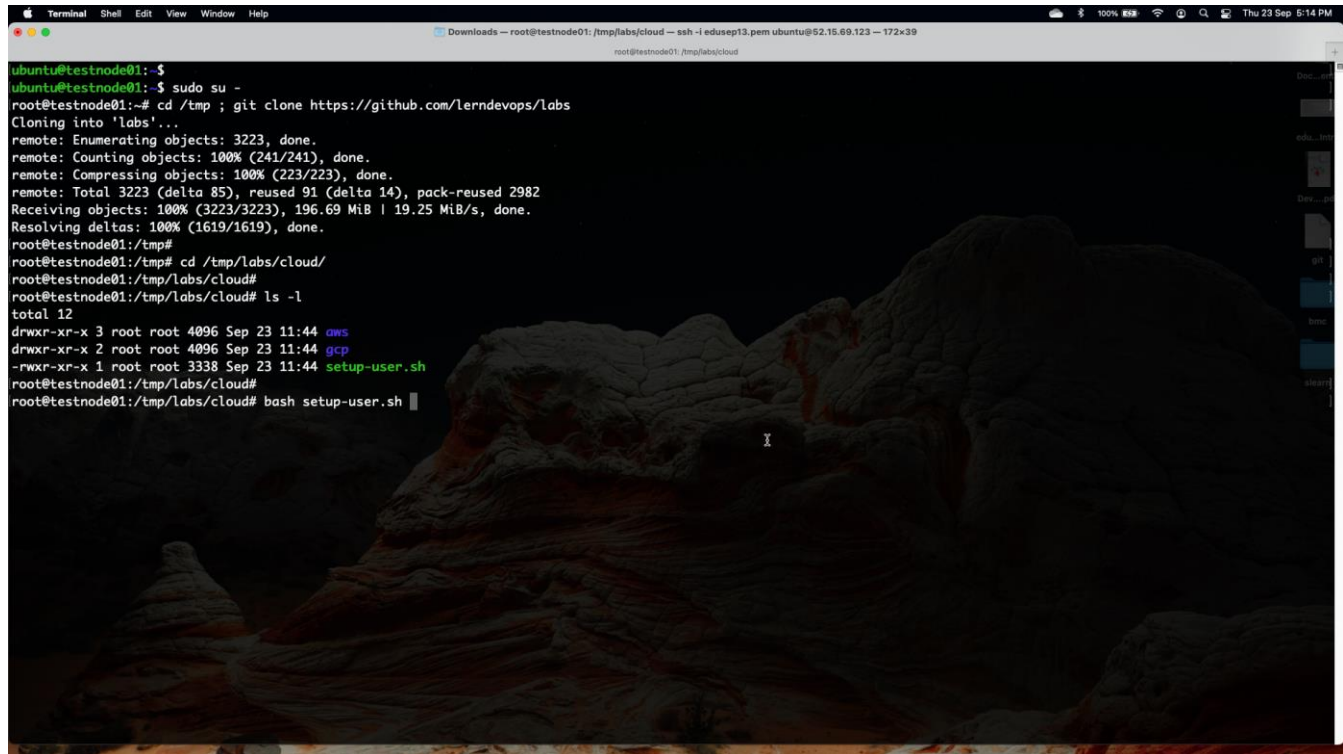


# setup a custom username & password for linux instance on Cloud

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

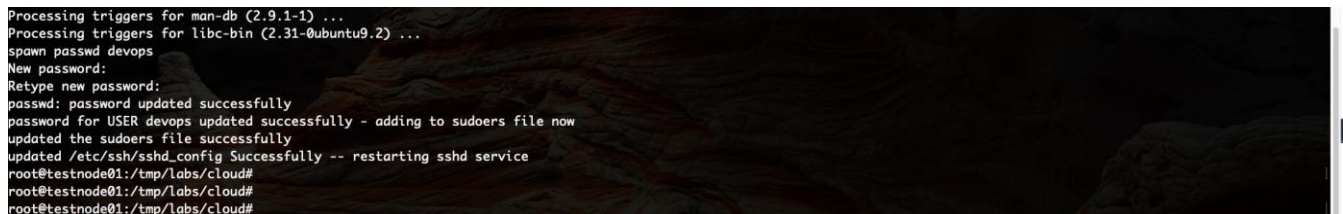
1. **sudo su -**
2. **cd /tmp ; git clone <https://github.com/lerndevops/labs>**
3. **cd /tmp/labs/cloud**
4. **bash setup-user.sh**

run the script

A terminal window screenshot showing the execution of the setup script. The terminal title is "Downloads - root@testnode01: /tmp/labs/cloud - ssh -i edusep13.pem ubuntu@52.15.69.123 - 172x39". The background of the terminal is a dark, rocky landscape. The commands and their outputs are as follows:

```
ubuntu@testnode01:~$ sudo su -
root@testnode01:~# cd /tmp ; git clone https://github.com/lerndevops/labs
Cloning into 'labs'...
remote: Enumerating objects: 3223, done.
remote: Counting objects: 100% (241/241), done.
remote: Compressing objects: 100% (223/223), done.
remote: Total 3223 (delta 85), reused 91 (delta 14), pack-reused 2982
Receiving objects: 100% (3223/3223), 196.69 MiB | 19.25 MiB/s, done.
Resolving deltas: 100% (1619/1619), done.
root@testnode01:/tmp#
root@testnode01:/tmp# cd /tmp/labs/cloud/
root@testnode01:/tmp/labs/cloud#
root@testnode01:/tmp/labs/cloud# ls -l
total 12
drwxr-xr-x 3 root root 4096 Sep 23 11:44 aws
drwxr-xr-x 2 root root 4096 Sep 23 11:44 gcp
-rwxr-xr-x 1 root root 3338 Sep 23 11:44 setup-user.sh
root@testnode01:/tmp/labs/cloud#
root@testnode01:/tmp/labs/cloud# bash setup-user.sh
```

logout of the server once the script executed successfully

A terminal window screenshot showing the successful execution of the setup script. The terminal title is "Downloads - root@testnode01: /tmp/labs/cloud - ssh -i edusep13.pem ubuntu@52.15.69.123 - 172x39". The background of the terminal is a dark, rocky landscape. The commands and their outputs are as follows:

```
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
spawn passwd devops
New password:
Retype new password:
passwd: password updated successfully
passwd for USER devops updated successfully - adding to sudoers file now
updated the sudoers file successfully
updated /etc/ssh/sshd_config Successfully -- restarting sshd service
root@testnode01:/tmp/labs/cloud#
root@testnode01:/tmp/labs/cloud#
root@testnode01:/tmp/labs/cloud#
```

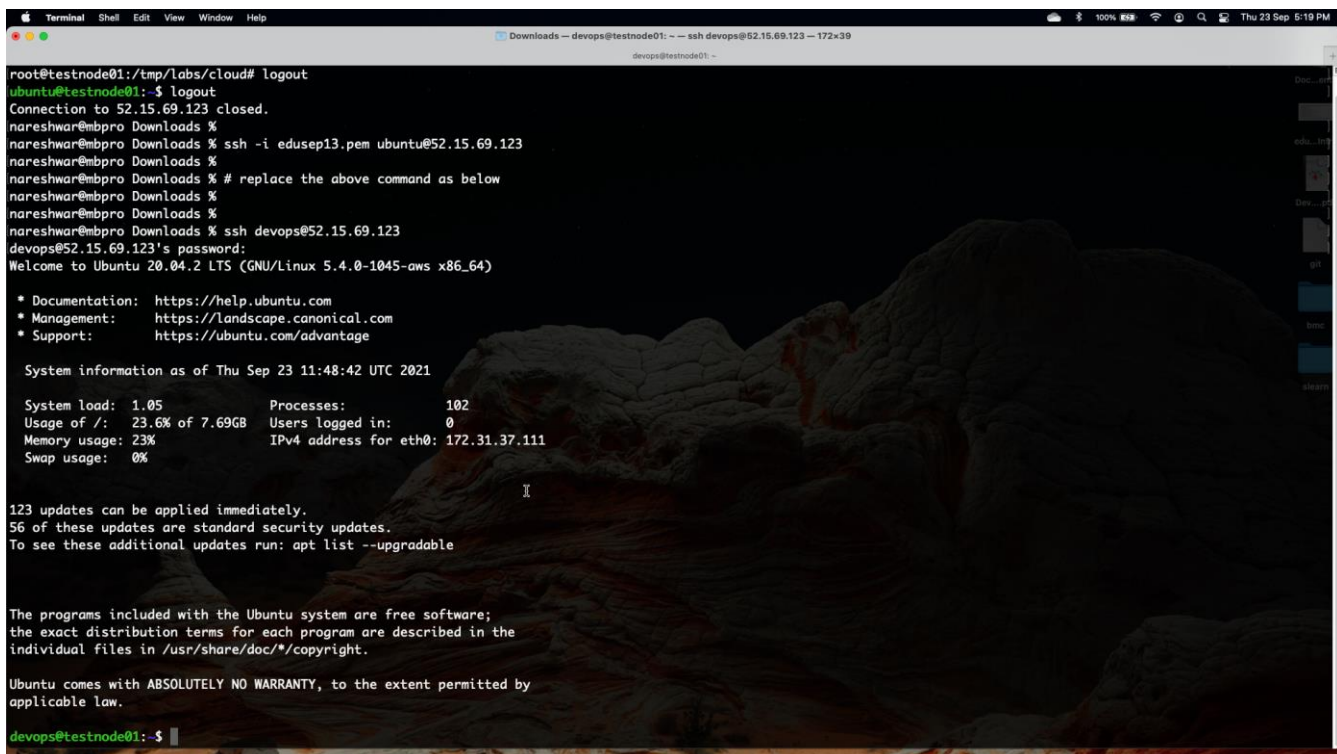
login back to the server using the username set by script

defaults are:

username: **devops**

password: **today@1234**

1. **ssh devops@publicip-of-ec2**
2. **enter the password when prompted**

A screenshot of a macOS Terminal window. The title bar shows 'Terminal' and standard menu options. The terminal content shows a user logging out of a previous session, then using 'ssh' to connect to '52.15.69.123' with a private key. After entering the password 'today@1234', the user is logged in as 'devops' on an Ubuntu 20.04.2 LTS system. The terminal displays system information, including system load, processes, memory usage, and available updates. The background of the terminal is a dark, rocky landscape.

```
root@testnode01:/tmp/labs/cloud# logout
ubuntu@testnode01:~$ logout
Connection to 52.15.69.123 closed.
nareshwar@mbpro Downloads % ssh -i edusep13.pem ubuntu@52.15.69.123
nareshwar@mbpro Downloads %
nareshwar@mbpro Downloads % # replace the above command as below
nareshwar@mbpro Downloads %
nareshwar@mbpro Downloads % ssh devops@52.15.69.123
devops@52.15.69.123's password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-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 11:48:42 UTC 2021

System load:  1.05          Processes:    102
Usage of /:   23.6% of 7.69GB Users logged in: 0
Memory usage: 23%          IPv4 address for eth0: 172.31.37.111
Swap usage:   0%

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

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.

devops@testnode01:~$
```