

## LAUNCHING LINUX (UBUNTU ) INSTANCE :

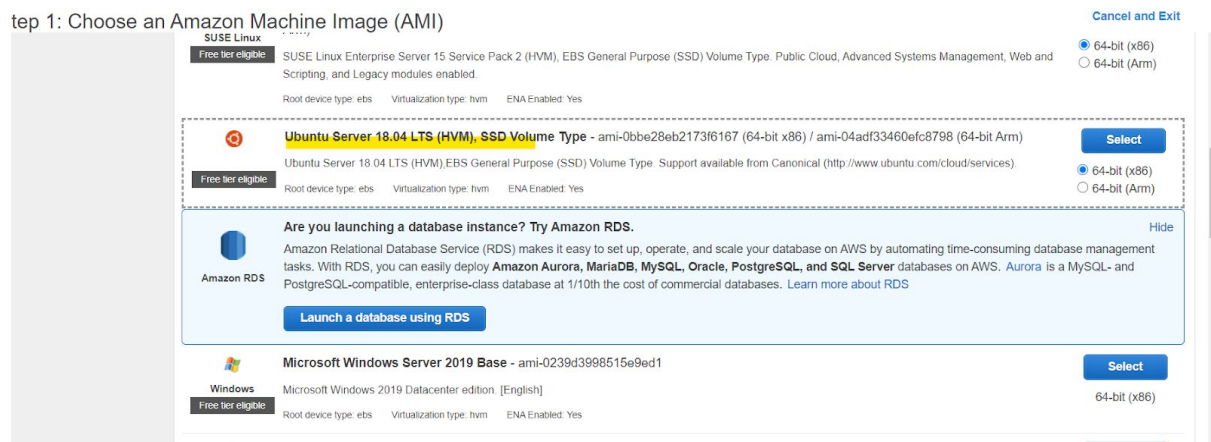
### STEP 1

Download and install MobaXterm and install -----> it will be used to start remote linux OS

### STEP 2

Launching instance (linux base ) Ubuntu OS

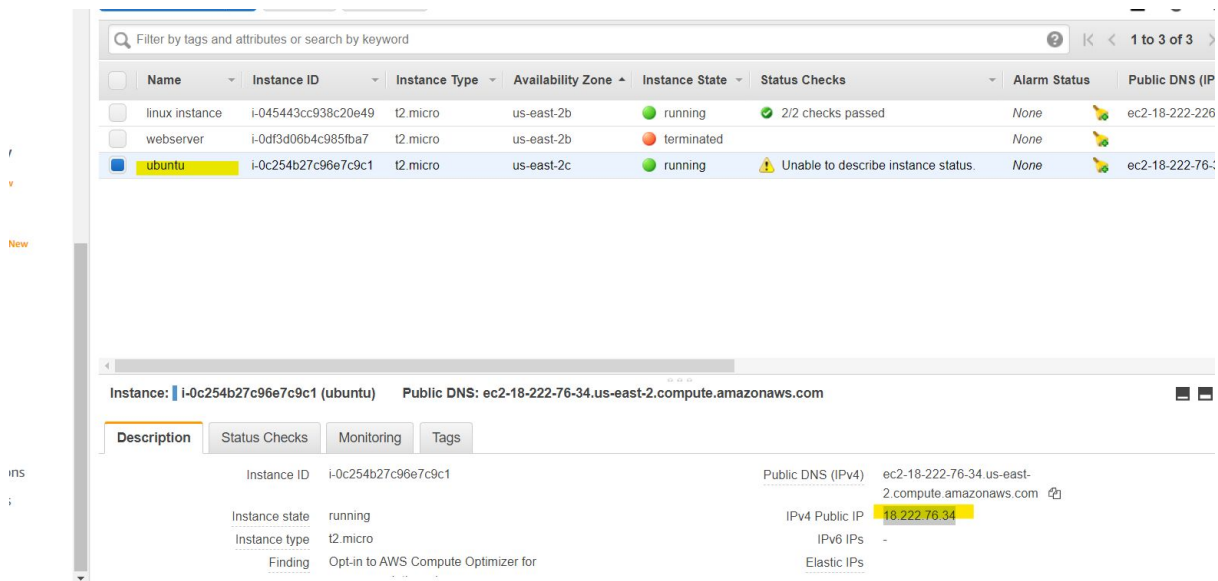
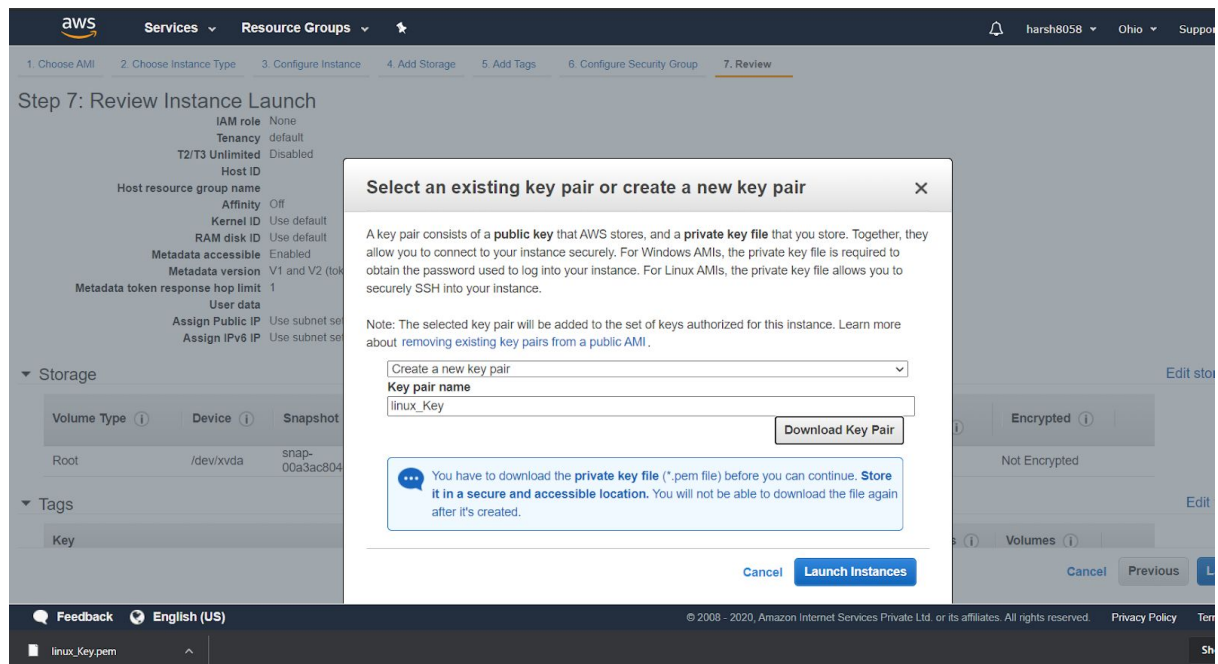
Step 1: Choose an Amazon Machine Image (AMI)



Choosing default settings:

- T2 micro (free tier instance ) 1 CPU / 1 GB RAM
- No. of instance = 1
- All traffic general firewall configuration
- Solid state volume 8 gb

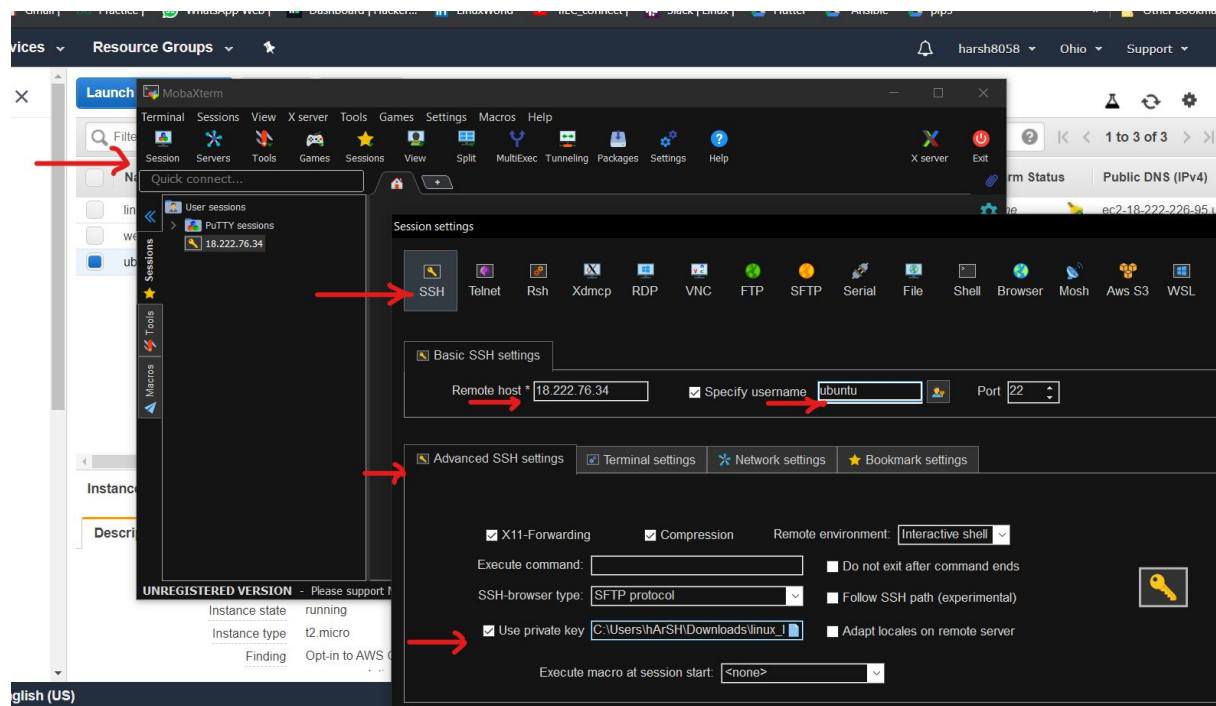
After configuring and review procedure ,Download authentication key  
And launch the instance !



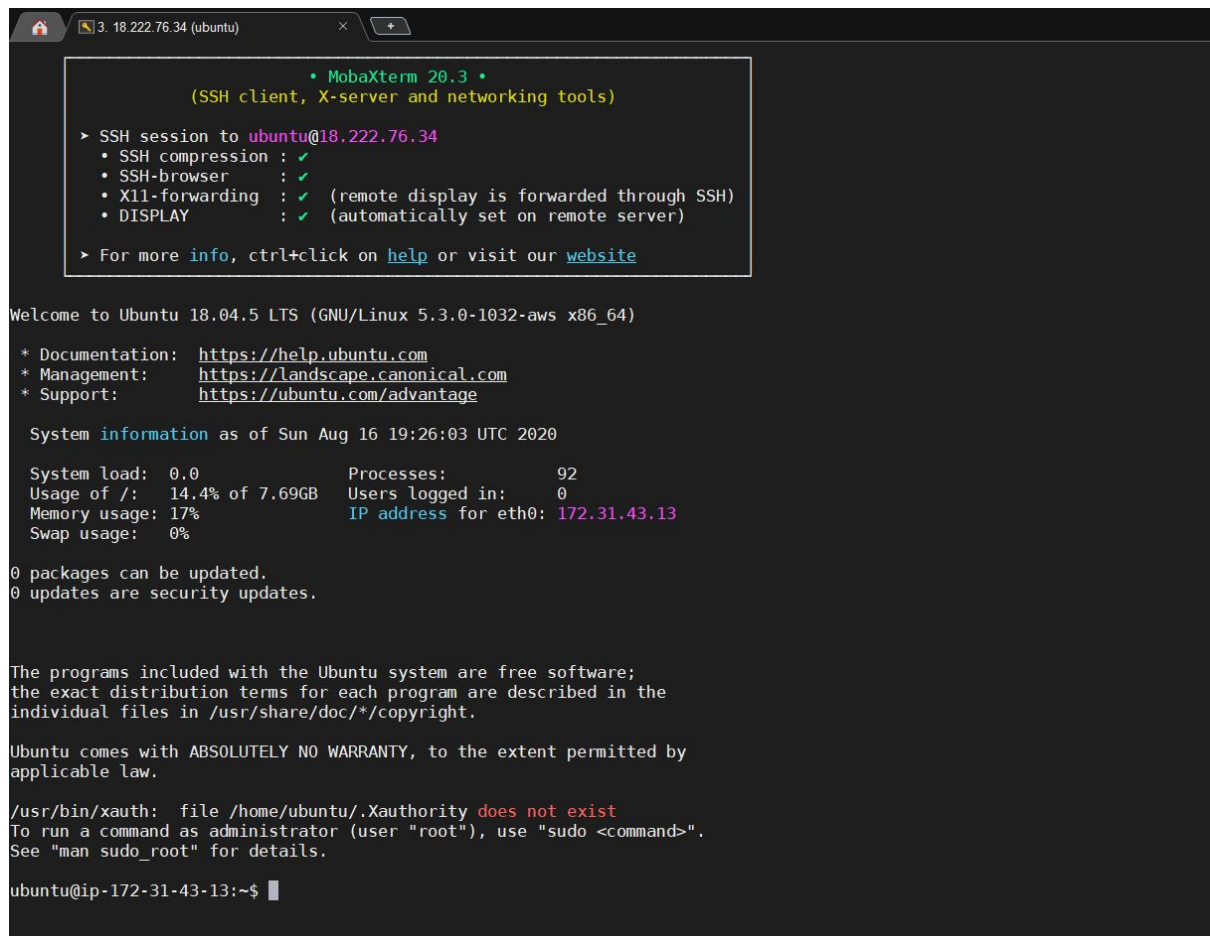
An ubuntu instance is launched with public IP 18.222.76.34

After this step in our MobXterm tool -----> for launching remote terminals is used

\*For connecting remotely SSH protocol is used :



- Under session option , choose SSH option !
- Add public IP address of ubuntu instance and user name as ubuntu
- Then under advance SSH settings use authentication key downloaded during instance creation
- Now , the instance is ready and launched remotely!



The screenshot shows a MobaXterm terminal window with a title bar indicating an SSH session to 18.222.76.34 (ubuntu). A yellow box highlights the MobaXterm version (20.3) and its features (SSH client, X-server, and networking tools). Below this, the terminal displays the SSH session details, including compression, browser, X11-forwarding, and DISPLAY settings. The Ubuntu welcome message follows, showing system information as of Sun Aug 16 19:26:03 UTC 2020. The system load, usage of /, memory usage, and swap usage are listed. The terminal also shows the number of packages that can be updated and the number of security updates. The Ubuntu disclaimer is displayed, followed by a message about the Xauthority file. The terminal prompt is ubuntu@ip-172-31-43-13:~\$.

```
• MobaXterm 20.3 •
(SSH client, X-server and networking tools)

> SSH session to ubuntu@18.222.76.34
• SSH compression : ✓
• SSH-browser      : ✓
• X11-forwarding   : ✓ (remote display is forwarded through SSH)
• DISPLAY          : ✓ (automatically set on remote server)

> For more info, ctrl+click on help or visit our website

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1032-aws x86_64)

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

System information as of Sun Aug 16 19:26:03 UTC 2020

System load:  0.0           Processes:            92
Usage of /:   14.4% of 7.69GB Users logged in:      0
Memory usage: 17%          IP address for eth0: 172.31.43.13
Swap usage:   0%

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

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-172-31-43-13:~$
```

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## TO INSTALL AND DEPLOY WEB SERVER :

### STEP 1

Install Nginx over ubuntu bash shell

### COMMANDS USED

```
sudo apt-get -y update
```

```
sudo apt-get -y install nginx
```

applicable law.

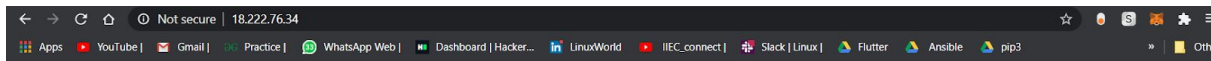
/usr/bin/xauth: file /home/ubuntu/.Xauthority does not exist  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo\_root" for details.

```
ubuntu@ip-172-31-43-13:~$ sudo apt-get -y update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 Packages [8570 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/universe Translation-en [4941 kB]
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse amd64 Packages [151 kB]
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse Translation-en [108 kB]
Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [1034 kB]
Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en [347 kB]
Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [1097 kB]
Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe Translation-en [342 kB]
Get:13 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 Packages [19.2 kB]
Get:14 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse Translation-en [6712 B]
Get:15 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/main amd64 Packages [7516 B]
Get:16 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/main Translation-en [4764 B]
Get:17 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe amd64 Packages [7736 B]
Get:18 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe Translation-en [4588 B]
Get:19 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [809 kB]
Get:20 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [254 kB]
Get:21 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [691 kB]
Get:22 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [229 kB]
Get:23 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [8100 B]
Get:24 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-en [2852 B]
Fetched 18.9 MB in 4s (4346 kB/s)
Reading package lists... Done
```



```
Preparing to unpack .../11-libnginx-mod-http-geoip_1.14.0-0ubuntu1.7_amd64.deb ...
Unpacking libnginx-mod-http-geoip (1.14.0-0ubuntu1.7) ...
Selecting previously unselected package libnginx-mod-http-image-filter.
Preparing to unpack .../12-libnginx-mod-http-image-filter_1.14.0-0ubuntu1.7_amd64.deb ...
Unpacking libnginx-mod-http-image-filter (1.14.0-0ubuntu1.7) ...
Selecting previously unselected package libnginx-mod-http-xslt-filter.
Preparing to unpack .../13-libnginx-mod-http-xslt-filter_1.14.0-0ubuntu1.7_amd64.deb ...
Unpacking libnginx-mod-http-xslt-filter (1.14.0-0ubuntu1.7) ...
Selecting previously unselected package libnginx-mod-mail.
Preparing to unpack .../14-libnginx-mod-mail_1.14.0-0ubuntu1.7_amd64.deb ...
Unpacking libnginx-mod-mail (1.14.0-0ubuntu1.7) ...
Selecting previously unselected package libnginx-mod-stream.
Preparing to unpack .../15-libnginx-mod-stream_1.14.0-0ubuntu1.7_amd64.deb ...
Unpacking libnginx-mod-stream (1.14.0-0ubuntu1.7) ...
Selecting previously unselected package nginx-core.
Preparing to unpack .../16-nginx-core_1.14.0-0ubuntu1.7_amd64.deb ...
Unpacking nginx-core (1.14.0-0ubuntu1.7) ...
Selecting previously unselected package nginx.
Preparing to unpack .../17-nginx_1.14.0-0ubuntu1.7_all.deb ...
Unpacking nginx (1.14.0-0ubuntu1.7) ...
Setting up libjbig0:amd64 (2.1-3.1build1) ...
Setting up fonts-dejavu-core (2.37-1) ...
Setting up nginx-common (1.14.0-0ubuntu1.7) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /lib/systemd/sy
Setting up libjpeg-turbo8:amd64 (1.5.2-0ubuntu5.18.04.4) ...
Setting up libnginx-mod-mail (1.14.0-0ubuntu1.7) ...
Setting up libxpm4:amd64 (1:3.5.12-1) ...
Setting up libnginx-mod-http-xslt-filter (1.14.0-0ubuntu1.7) ...
Setting up libnginx-mod-http-geoip (1.14.0-0ubuntu1.7) ...
Setting up libwebp6:amd64 (0.6.1-2) ...
Setting up libjpeg8:amd64 (8c-2ubuntu8) ...
Setting up fontconfig-config (2.12.6-0ubuntu2) ...
Setting up libnginx-mod-stream (1.14.0-0ubuntu1.7) ...
Setting up libtiff5:amd64 (4.0.9-5ubuntu0.3) ...
Setting up libfontconfig1:amd64 (2.12.6-0ubuntu2) ...
Setting up libgd3:amd64 (2.2.5-4ubuntu0.4) ...
Setting up libnginx-mod-http-image-filter (1.14.0-0ubuntu1.7) ...
Setting up nginx-core (1.14.0-0ubuntu1.7) ...
Setting up nginx (1.14.0-0ubuntu1.7) ...
Processing triggers for systemd (237-3ubuntu10.42) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for ufw (0.36-0ubuntu0.18.04.1) ...
Processing triggers for ureadahead (0.100.0-21) ...
Processing triggers for libc-bin (2.27-3ubuntu1.2) ...
ubuntu@ip-172-31-42-13:~$
```

After installation of nginx. Webserver will be deployed and can be viewed by public IP address 18.222.76.34 with default https port 8080



## Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to [nginx.org](https://nginx.org).  
Commercial support is available at [nginx.com](https://nginx.com).

*Thank you for using nginx.*

# TASK DONE

MAKE SURE THAT INSTANCE SHOULD BE TERMINATED AFTER USE TO  
AVOID UNNECESSARY CHARGES !!!