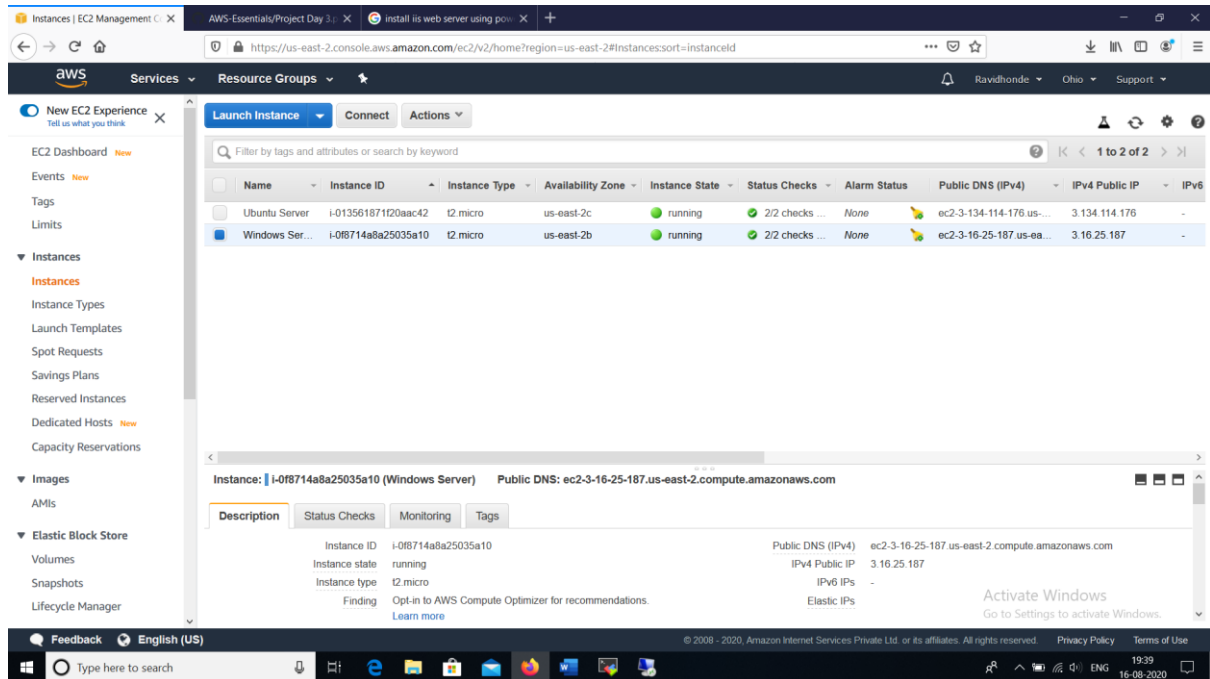


PROJECT 1:

Deploying a web server in Windows instanceTask

1:Create a windows instance using AMI :Windows 2012 R2 base



The screenshot displays the AWS Management Console interface. The left sidebar shows navigation options like EC2 Dashboard, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main content area shows a list of EC2 instances. Below the list, the details for a specific Windows Server instance are shown, including its ID, state, type, and public DNS information.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
Ubuntu Server	i-013561871f20aac42	t2.micro	us-east-2c	running	2/2 checks ...	None	ec2-3-134-114-176 us-...	3.134.114.176	-
Windows Ser...	i-0f8714a8a25035a10	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-3-16-25-187 us-ee...	3.16.25.187	-

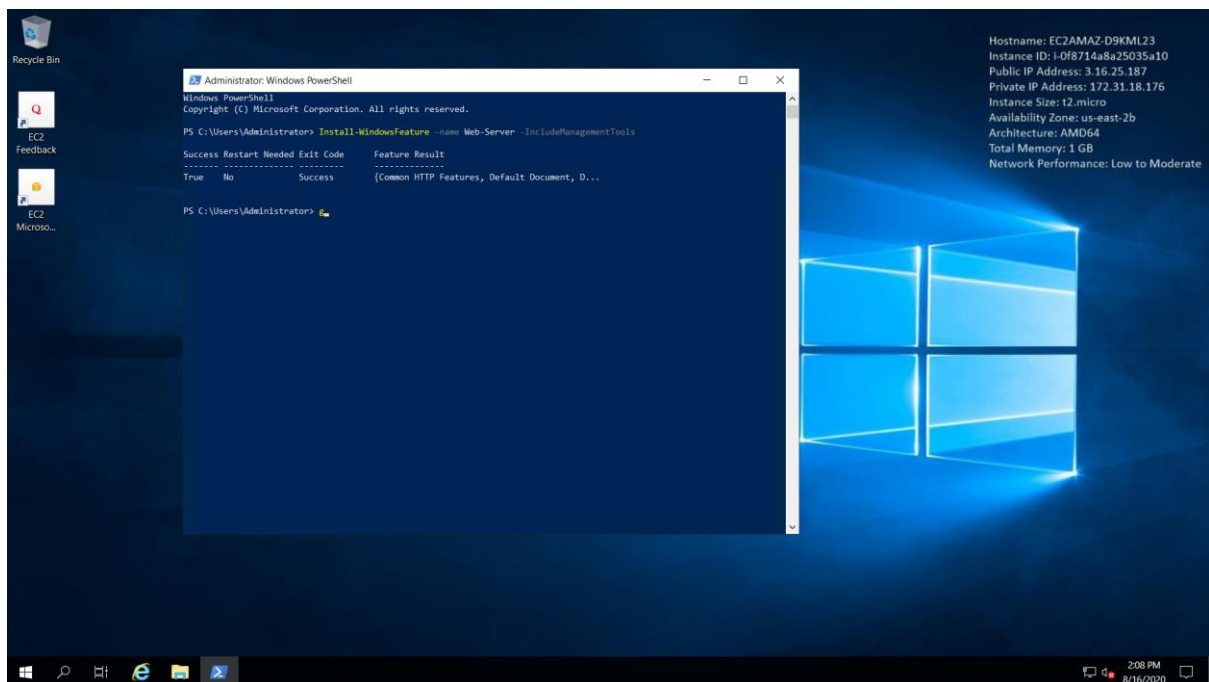
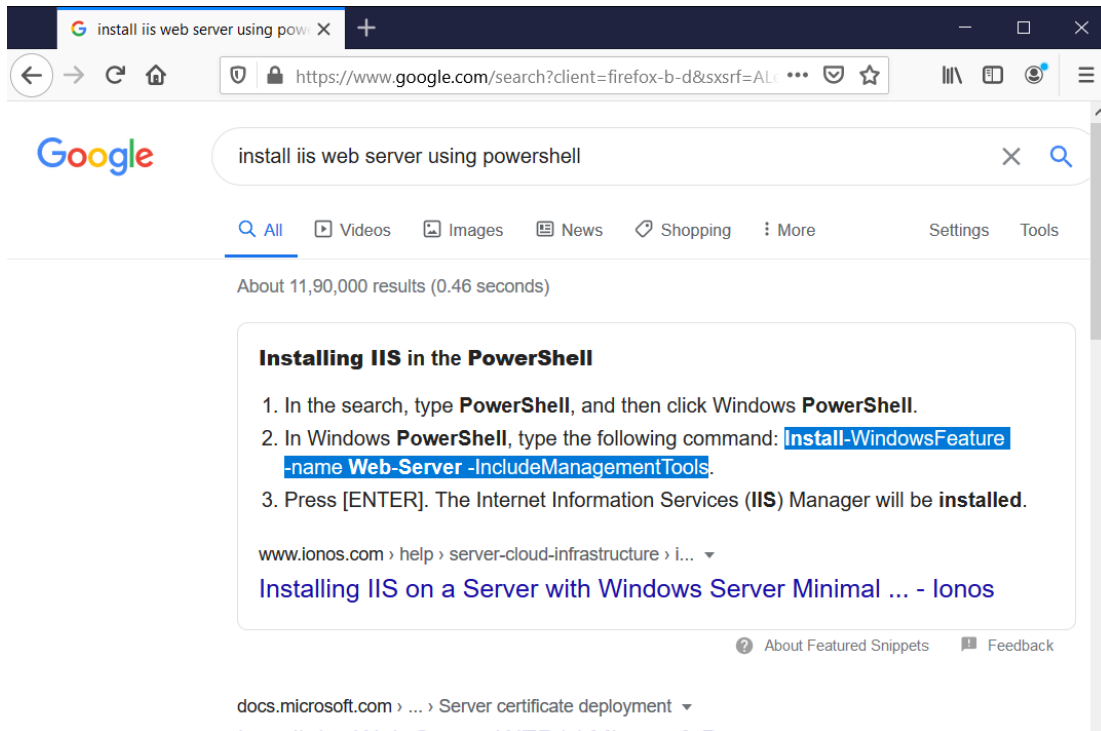
Instance: i-0f8714a8a25035a10 (Windows Server) Public DNS: ec2-3-16-25-187.us-east-2.compute.amazonaws.com

Description	Status Checks	Monitoring	Tags
Instance ID	i-0f8714a8a25035a10	Public DNS (IPv4)	ec2-3-16-25-187.us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	3.16.25.187
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for recommendations.	Elastic IPs	-

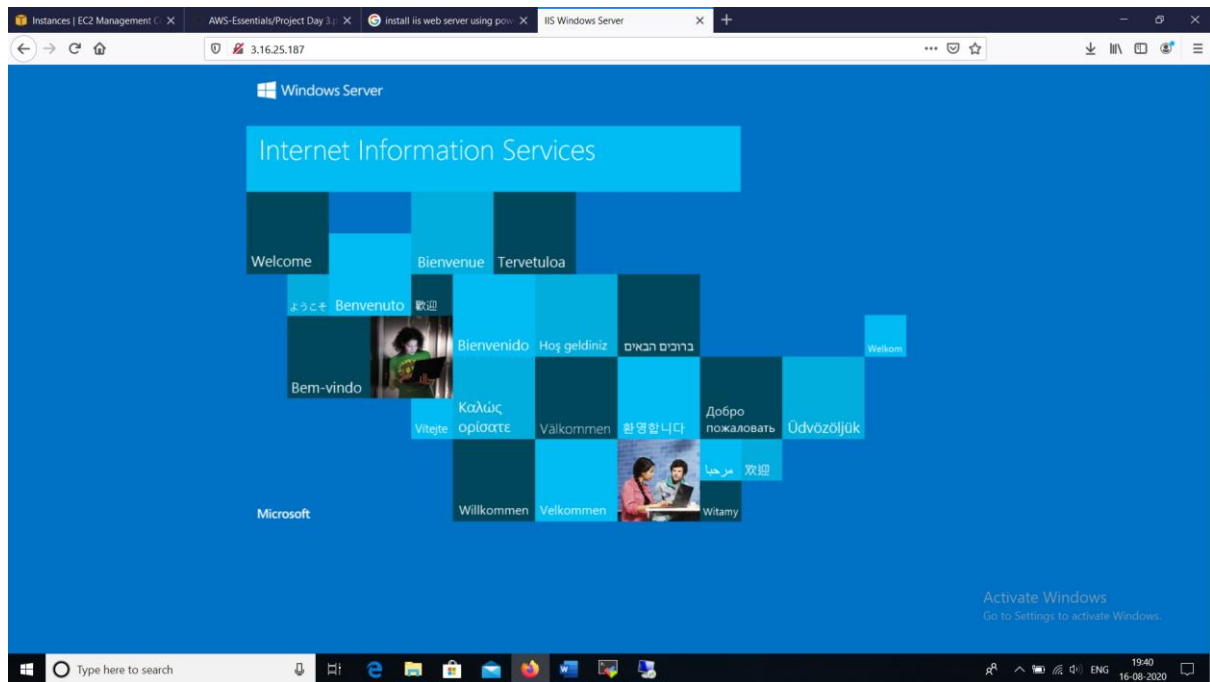
Activate Windows
Go to Settings to activate Windows.

Task 2: Launch the Windows instance using RDP

Task 3: Install IIS web server using Powershell ISE



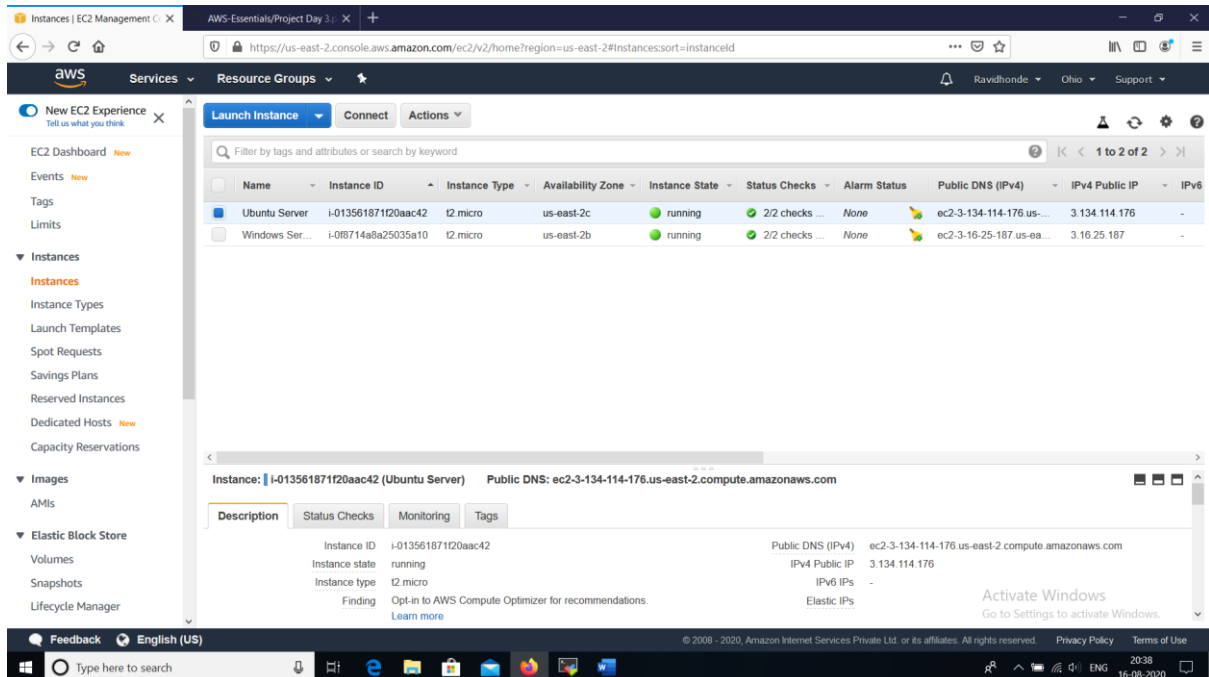
Task 4: Verify successful installation of IIS Web Server



PROJECT 2:

Deploying a web server in Windows instance

Task 1: Create a windows instance using AMI :Ubuntu Server 18.04 LTS (HVM)



The screenshot displays the AWS Management Console's EC2 Instances page. The left sidebar shows navigation options like 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances', 'Images', and 'Elastic Block Store'. The main content area shows a table of instances. Two instances are listed: 'Ubuntu Server' (Instance ID: i-013561871f20aac42) and 'Windows Ser...' (Instance ID: i-0B8714a8a25035a10). Both are in the 'running' state. The 'Ubuntu Server' instance is selected, and its details are shown in the 'Description' tab. The details include the Instance ID, Instance state (running), Instance type (t2.micro), and a finding (Opt-in to AWS Compute Optimizer for recommendations). The Public DNS (IPv4) is ec2-3-134-114-176.us-east-2.compute.amazonaws.com, and the IPv4 Public IP is 3.134.114.176. An 'Activate Windows' watermark is visible in the bottom right corner of the console window.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
Ubuntu Server	i-013561871f20aac42	t2.micro	us-east-2c	running	2/2 checks ...	None	ec2-3-134-114-176 us-...	3.134.114.176	-
Windows Ser...	i-0B8714a8a25035a10	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-3-16-25-187 us-ee...	3.16.25.187	-

Instance: **i-013561871f20aac42 (Ubuntu Server)** Public DNS: ec2-3-134-114-176.us-east-2.compute.amazonaws.com

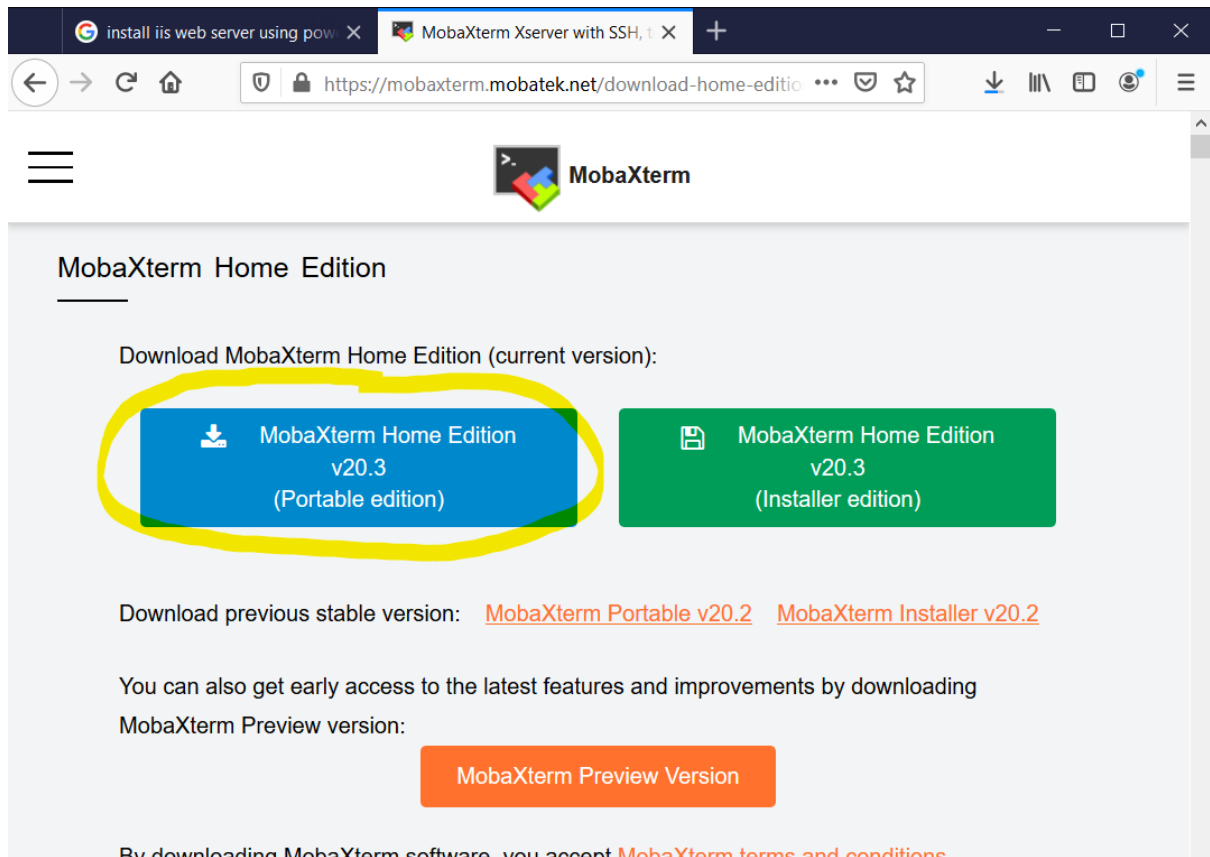
Description | Status Checks | Monitoring | Tags

Instance ID: i-013561871f20aac42
Instance state: running
Instance type: t2.micro
Finding: Opt-in to AWS Compute Optimizer for recommendations.
[Learn more](#)

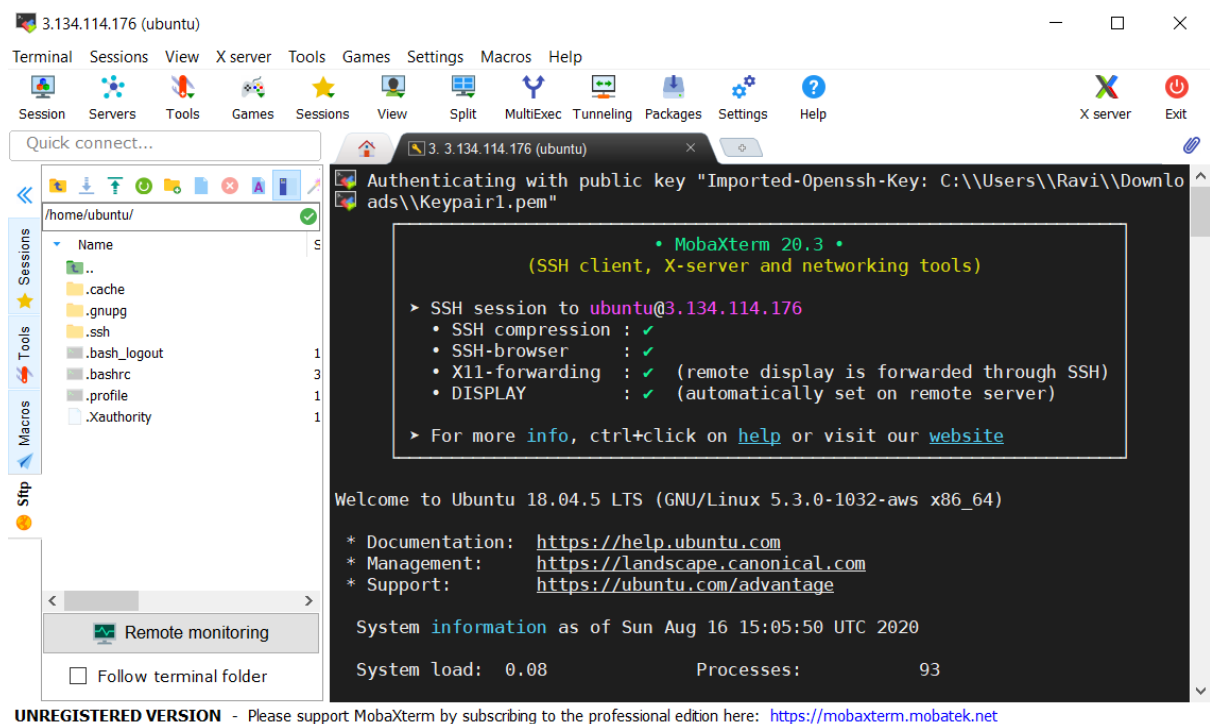
Public DNS (IPv4): ec2-3-134-114-176.us-east-2.compute.amazonaws.com
IPv4 Public IP: 3.134.114.176
IPv6 IPs: -
Elastic IPs: -

Activate Windows
Go to Settings to activate Windows.

Task 2:Download and install MobaXterm Portable Edition

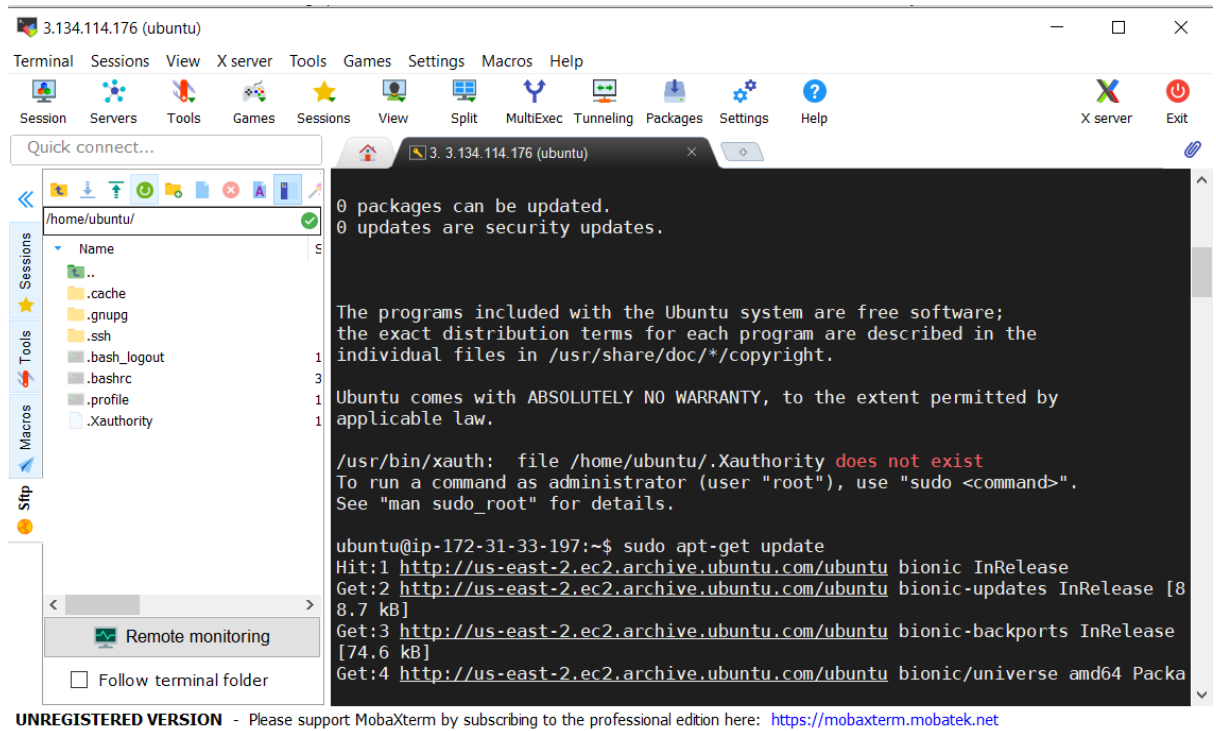


Task 2:Launch the Ubuntu instance using SSH



Task 3: Install nginx web server using bash

- Update Settings Of Ubuntu using : `sudo apt-get update`



The screenshot shows a MobaXterm window titled '3.134.114.176 (ubuntu)'. The terminal displays the output of the command `sudo apt-get update`. The output indicates that 0 packages can be updated and that the updates are security updates. It also displays the Ubuntu license information and the path to the Xauthority file. The terminal output is as follows:

```
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.

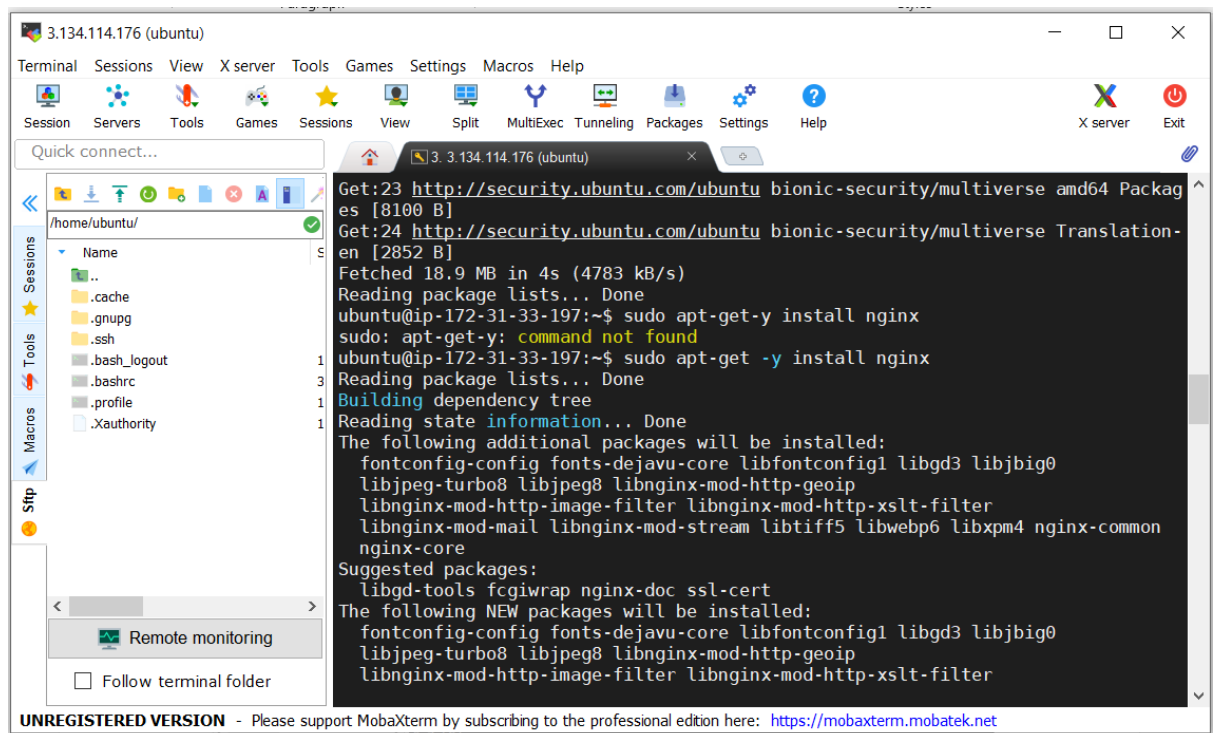
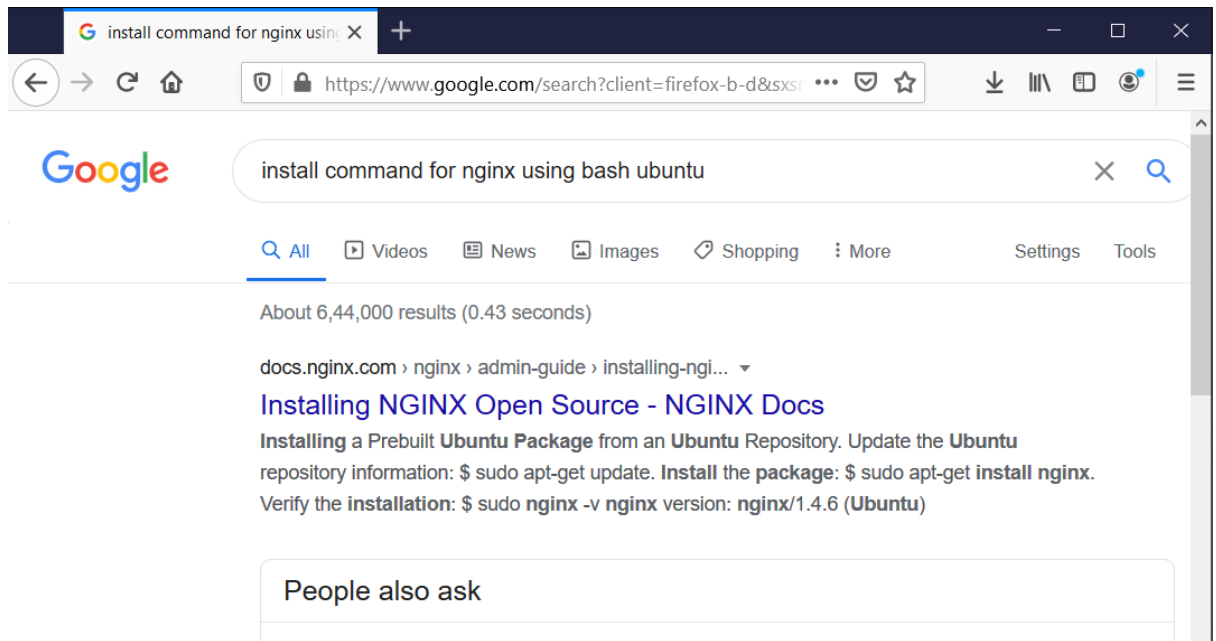
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

/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.

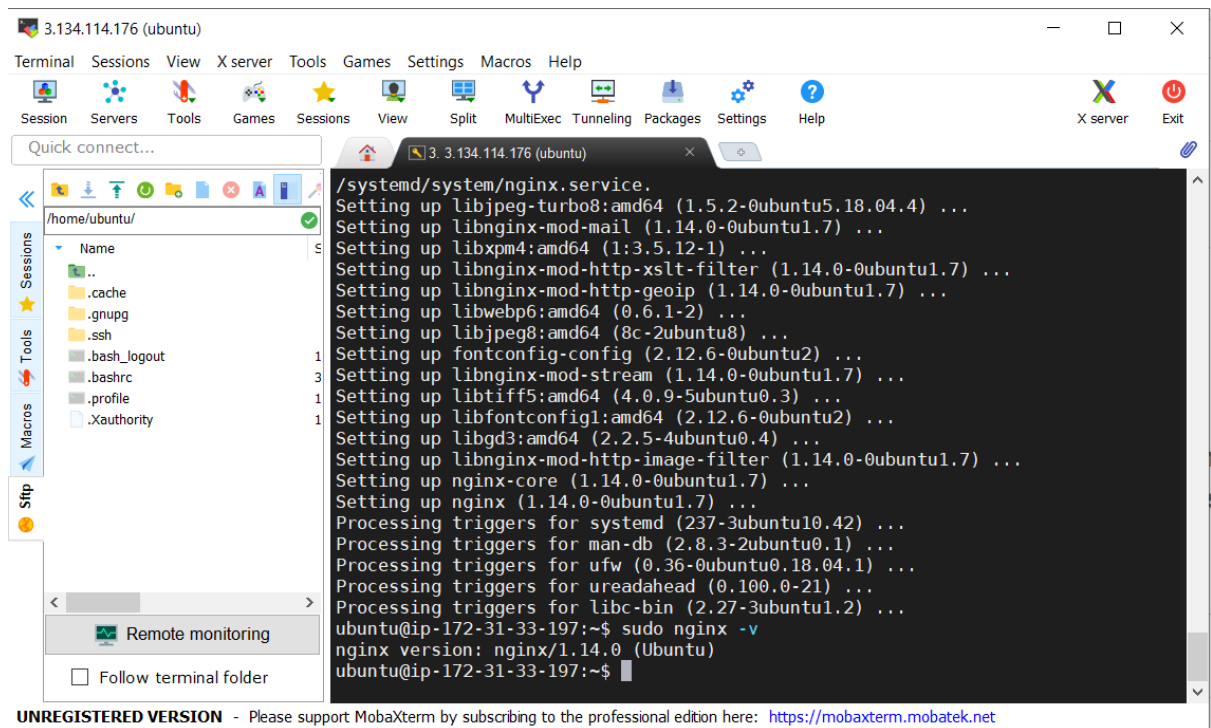
ubuntu@ip-172-31-33-197:~$ sudo apt-get update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [8
8.7 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease
[74.6 kB]
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 Packa
```

At the bottom of the window, there is a notice: **UNREGISTERED VERSION** - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

- Command For nginx:



- Command For Verify nginx properly installed : `sudo nginx -v`



```
/systemd/system/nginx.service.  
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-172-31-33-197:~$ sudo nginx -v  
nginx version: nginx/1.14.0 (Ubuntu)  
ubuntu@ip-172-31-33-197:~$
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Task 4: Verify successful installation of nginx

