



Andhra Pradesh State Skill Development Corporation



AWS CLOUD COMPUTING

CONFIGURATION OF LIGHTSAIL WITH APACHE2



Configuration of Lightsail with Apache2



Configuration of lightsail with apache2

Amazon Lightsail is the easiest way to get started with AWS if you just need virtual private servers. Lightsail includes everything you need to launch your project quickly – a virtual machine, SSD-based storage, data transfer, DNS management, and a static IP – for a low, predictable price. After you create your instance, you can easily connect to it. You can manage your instances using the Lightsail console, Lightsail API, or Lightsail command line interface (CLI).

Step 1: Sign up for AWS

Requires an AWS account. Sign up for AWS, or sign in to AWS if you already have an account.

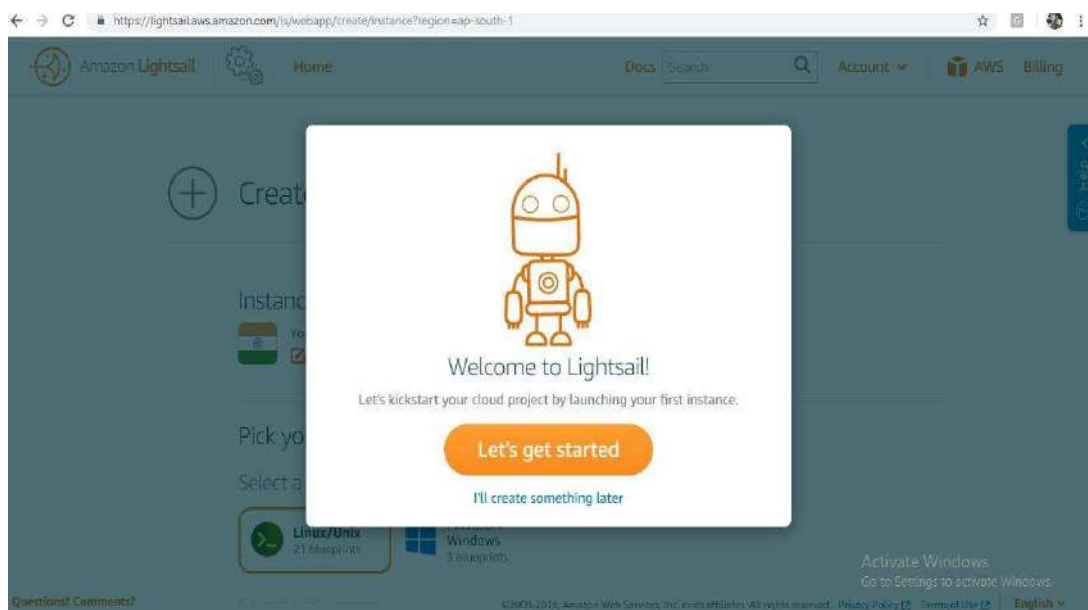
Step 2: Create an Ubuntu 18.04 LTS instance in Lightsail

Get your Ubuntu 18.04 LTS instance up and running in Lightsail.

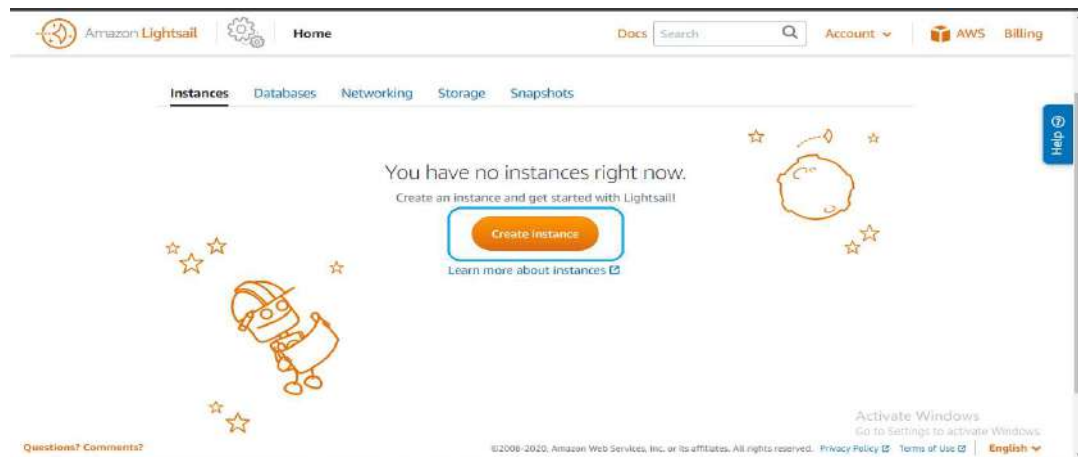
Ubuntu 18.04 LTS – Bionic. Lean, fast and powerful, Ubuntu Server delivers services reliably, predictably and economically. It is the perfect base on which to build your instances. Ubuntu is free and will always be, and you have the option to get support and Landscape from Canonical.

→ You can add a shell script that will run on your instance the first time it launches.

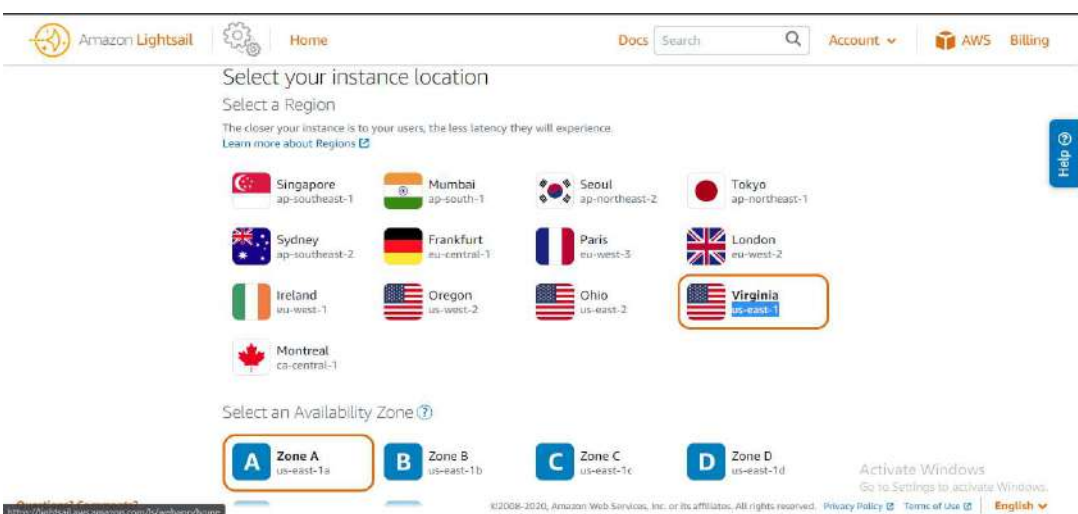
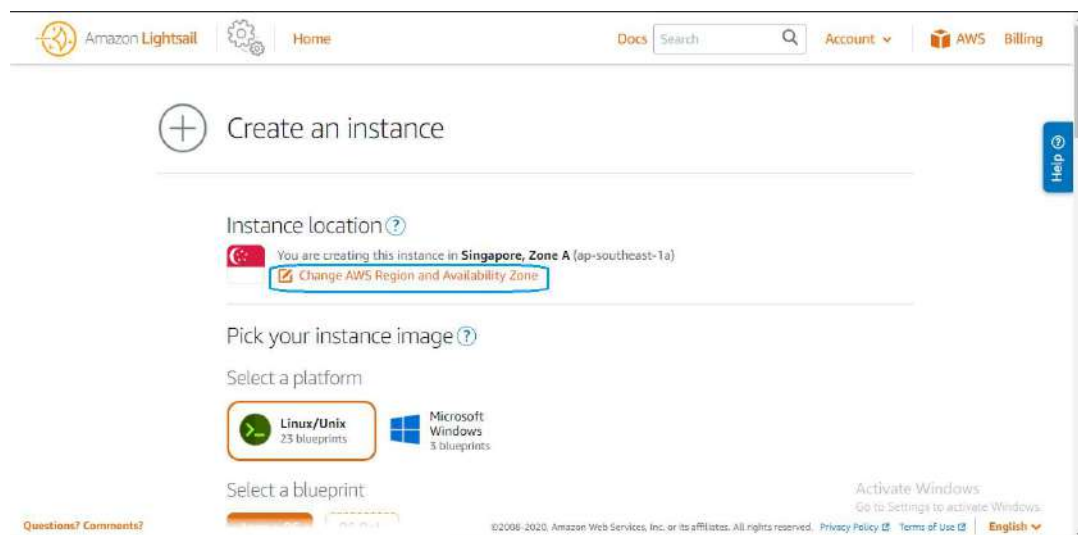
1. Sign in to the Lightsail console.



2. On the Instances tab of the Lightsail home page, choose Create instance.



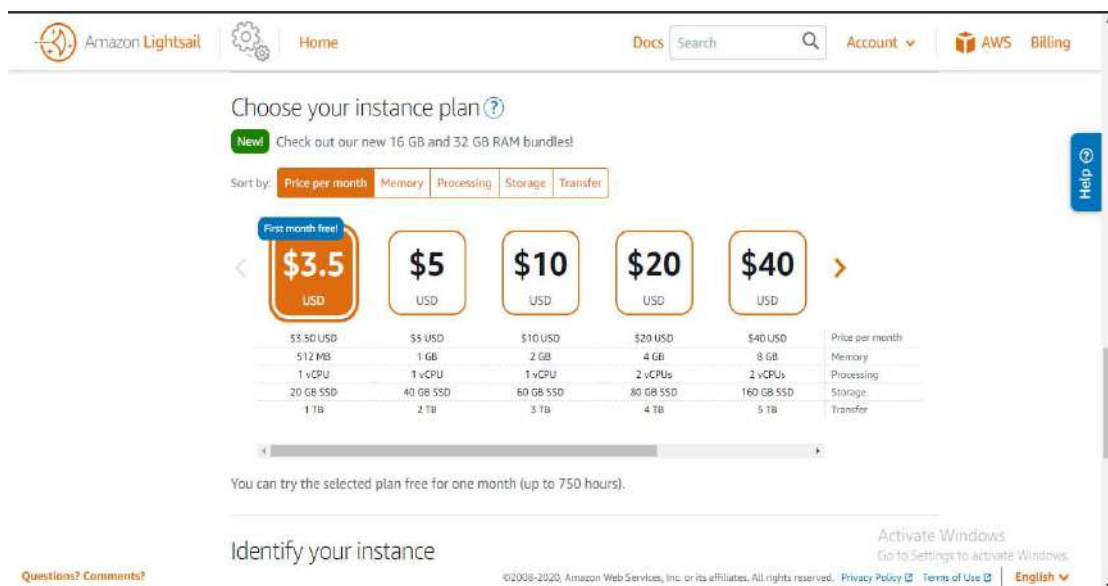
3. Select a location for your instance (an AWS Region and Availability Zone). Choose Change Region and zone to create your instance in another location.



- Optionally, you can change the Availability Zone. Choose an Availability Zone from the dropdown list. Choose the Linux platform. Pick an application (Apps + OS) or an operating system (OS Only).

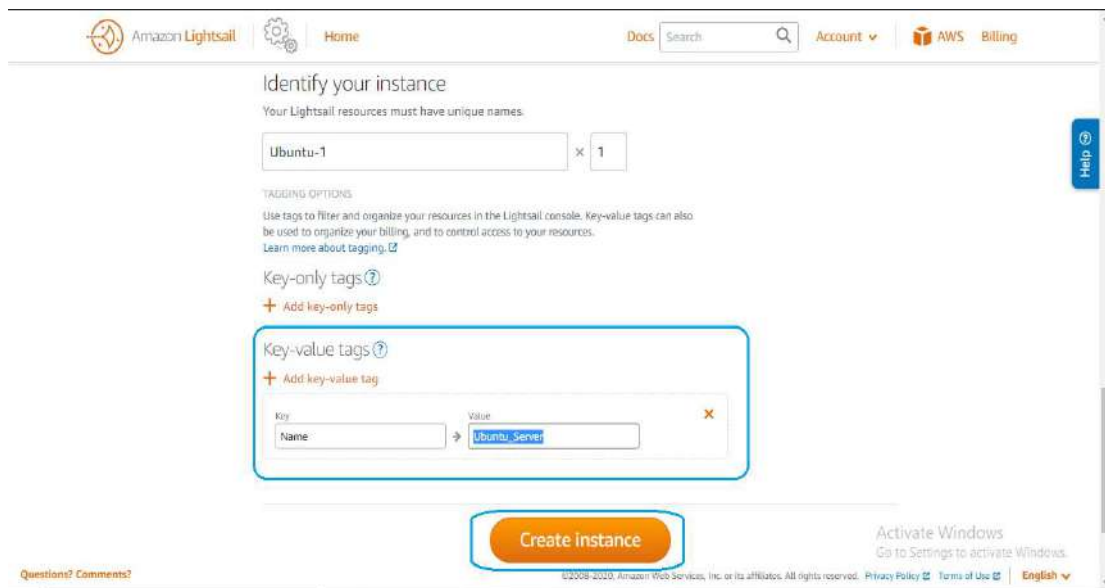


- Choose your instance plan. You can try the \$3.50 USD Lightsail plan free for one month (up to 750 hours).



Enter a unique name for your instance.

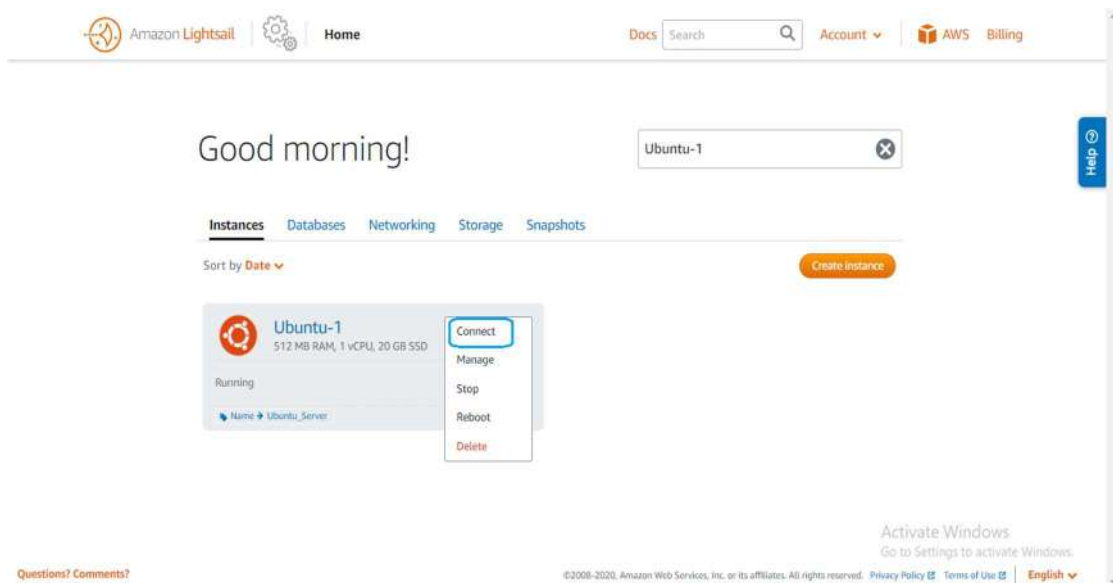
Create a **Key-Value tag**, then enter a key into the Key text box, and a value into the Value text box. Choose Save when you're done entering the tag, or choose Cancel to not add the tag. Key-value tags can only be added one at a time. To add more than one key-value tag, repeat the previous steps.



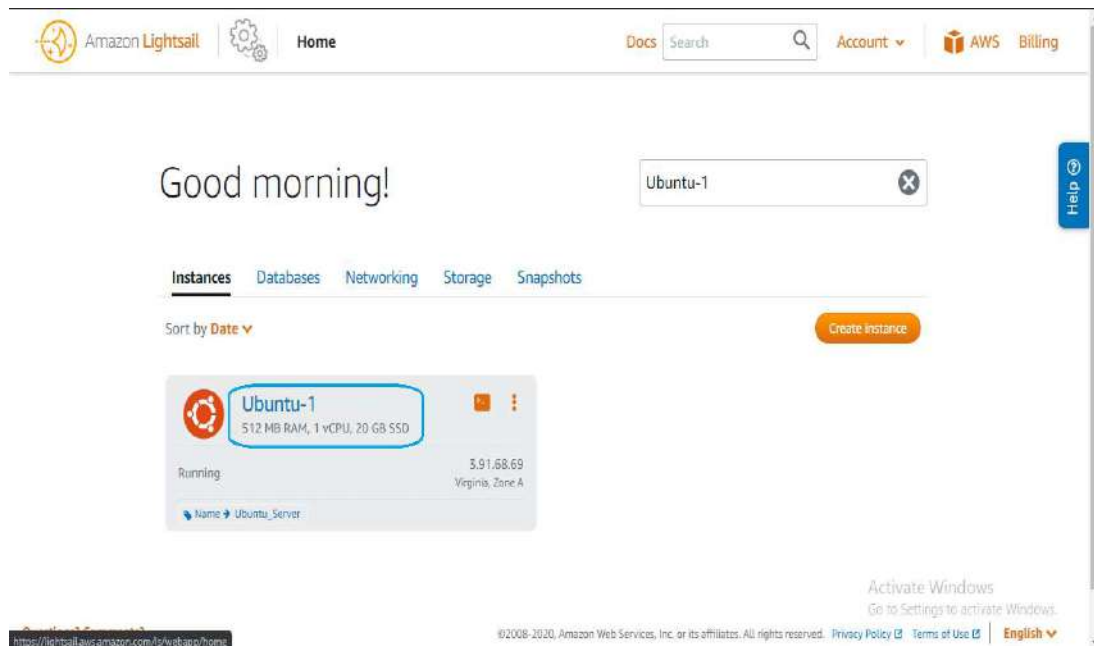
Choose Create instance. Within minutes, your Lightsail instance is ready and you can connect to it via SSH, without leaving Lightsail.

Connect to your instance

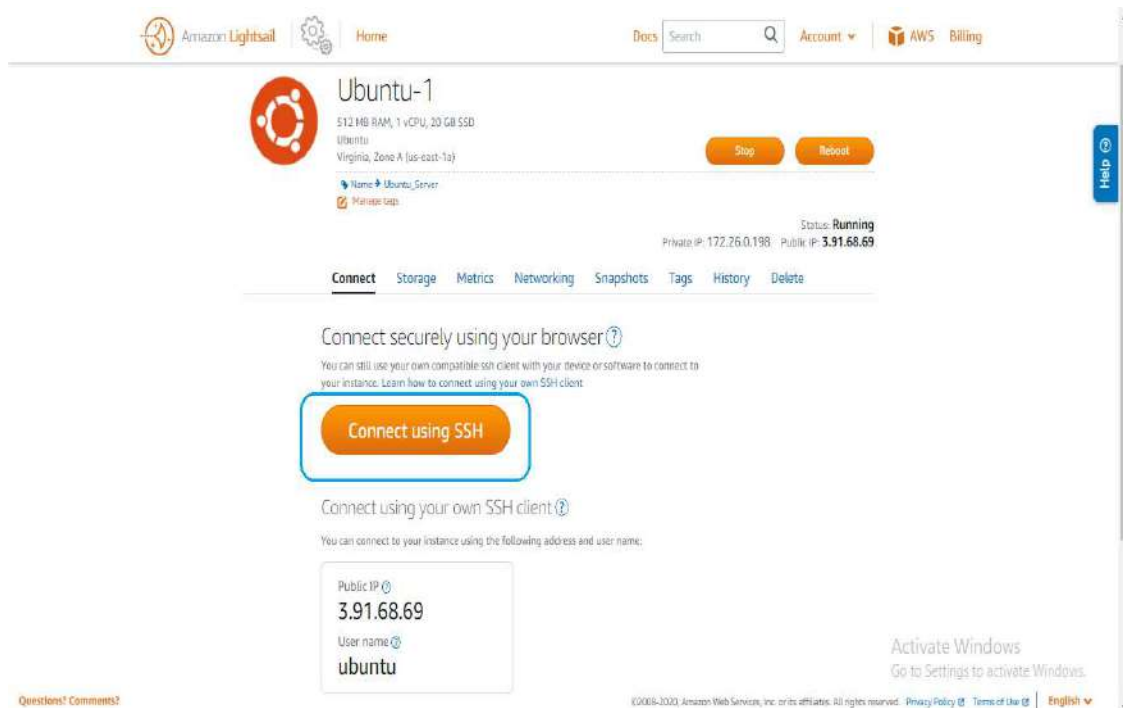
1. On the Lightsail home page, choose the menu on the right of your instance's name, and then choose Connect



Alternately, you can open your instance management page and choose the Connect tab.



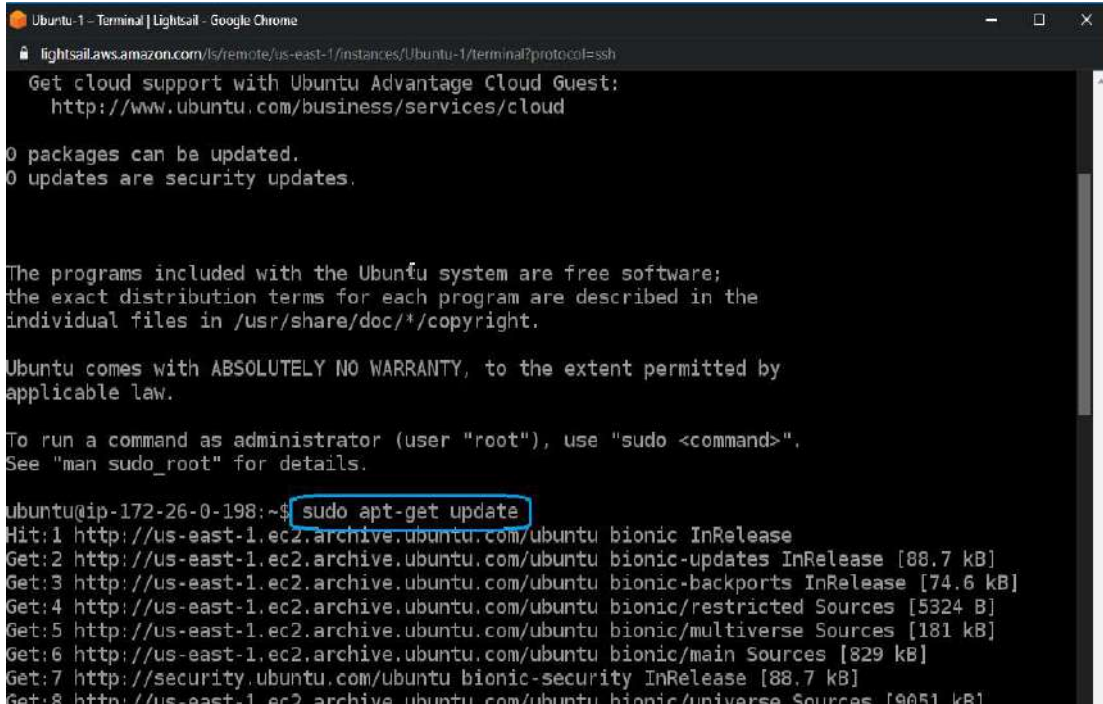
Note: You can also connect your instance using an SSH client such as PuTTY, by using private key files.



Now you can type commands into the terminal and manage your Lightsail instance without setting up an SSH client.

- To ensure that all of your software packages are up to date, perform a quick software update on your instance.

\$ sudo apt-get update



```
Ubuntu-1 - Terminal | Lightsail - Google Chrome
lightsail.aws.amazon.com/ls/remote/us-east-1/instances/Ubuntu-1/terminal?protocol=ssh

Get cloud support with Ubuntu Advantage Cloud Guest:
http://www.ubuntu.com/business/services/cloud

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.

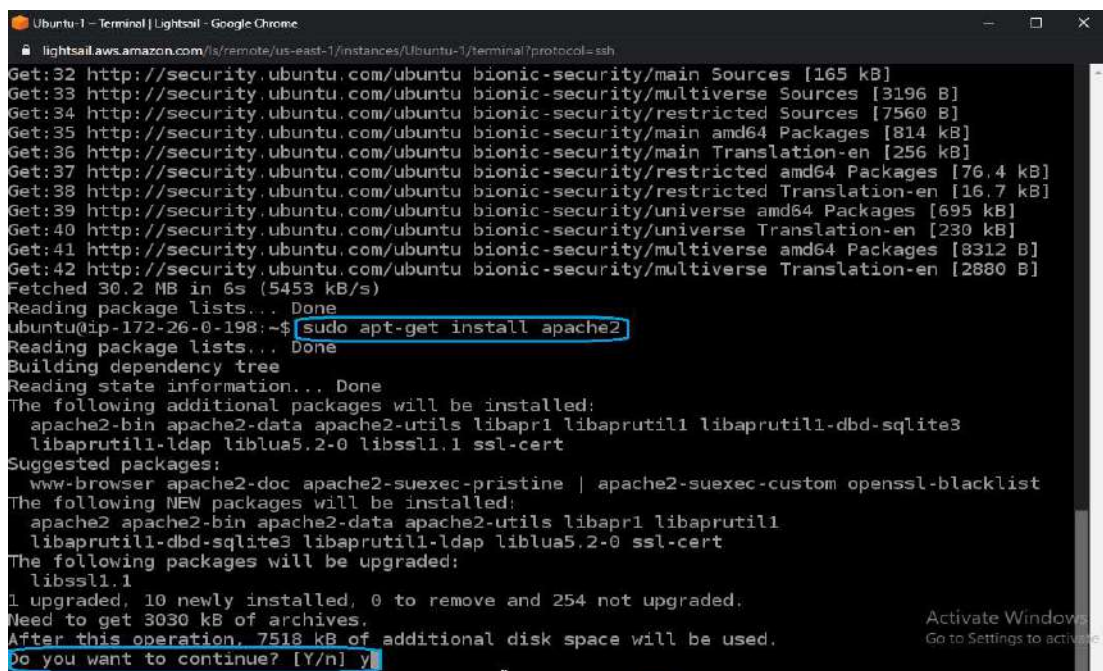
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-26-0-198:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/restricted Sources [5324 B]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/multiverse Sources [181 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/main Sources [829 kB]
Get:7 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/universe Sources [9051 kB]
```

- Now that your instance is current, you can install the Apache web server.

\$ sudo apt-get install apache2



```
Ubuntu-1 - Terminal | Lightsail - Google Chrome
lightsail.aws.amazon.com/ls/remote/us-east-1/instances/Ubuntu-1/terminal?protocol=ssh

Get:32 http://security.ubuntu.com/ubuntu bionic-security/main Sources [165 kB]
Get:33 http://security.ubuntu.com/ubuntu bionic-security/multiverse Sources [3196 B]
Get:34 http://security.ubuntu.com/ubuntu bionic-security/restricted Sources [7560 B]
Get:35 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [814 kB]
Get:36 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [256 kB]
Get:37 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [76.4 kB]
Get:38 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [16.7 kB]
Get:39 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [695 kB]
Get:40 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [230 kB]
Get:41 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [8312 B]
Get:42 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-en [2880 B]
Fetched 30.2 MB in 6s (5453 kB/s)
Reading package lists... Done
ubuntu@ip-172-26-0-198:~$ sudo apt-get install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap liblua5.2-0 libssl1.1 ssl-cert
Suggested packages:
  www-browser apache2-doc apache2-suexec-pristine | apache2-suexec-custom openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0 ssl-cert
The following packages will be upgraded:
  libssl1.1
1 upgraded, 10 newly installed, 0 to remove and 254 not upgraded.
Need to get 3030 kB of archives.
After this operation, 7518 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
```


- Restart the Apache web server.
\$ sudo service apache2 restart
- Also start all the web servers by executing its commands.
- In the web browser, type the URL of the file that you just created. This URL is the public DNS or IP address of your instance followed by a forward slash and the file name.

