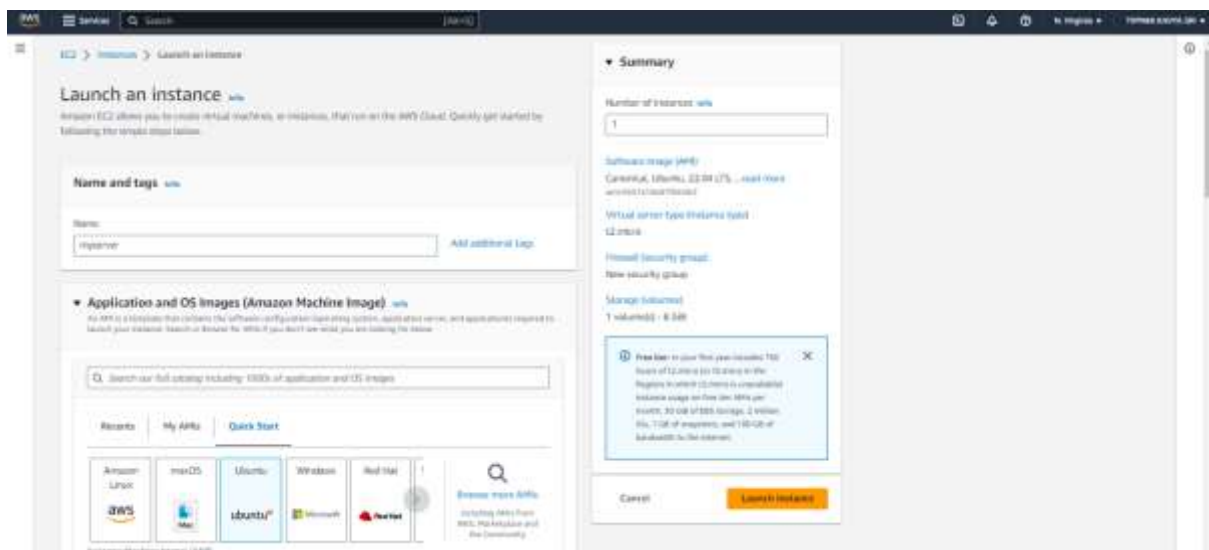
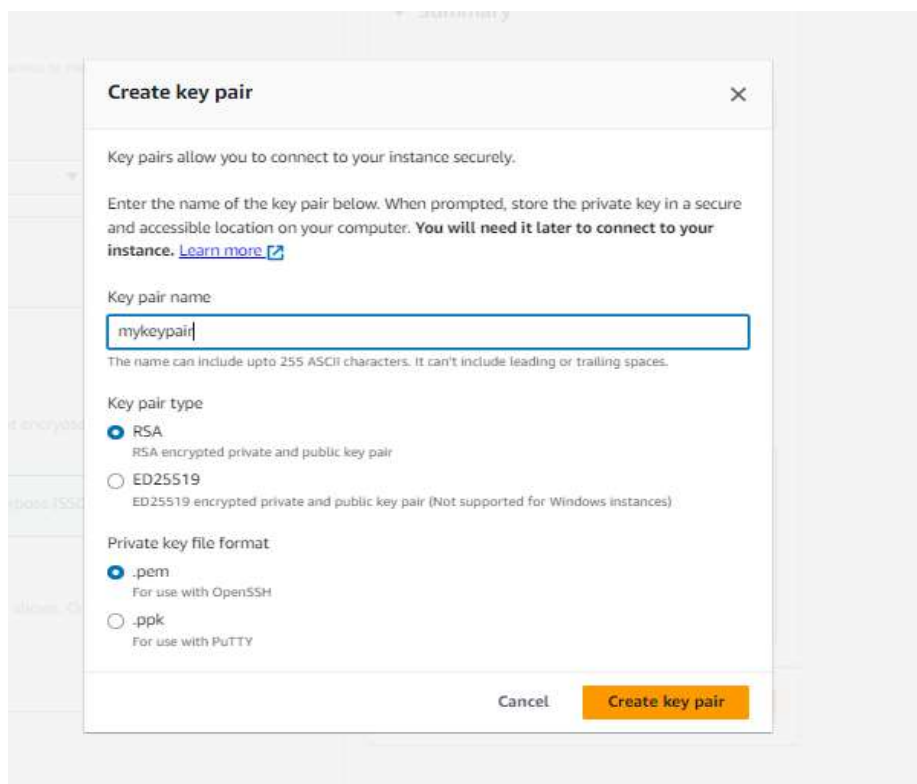
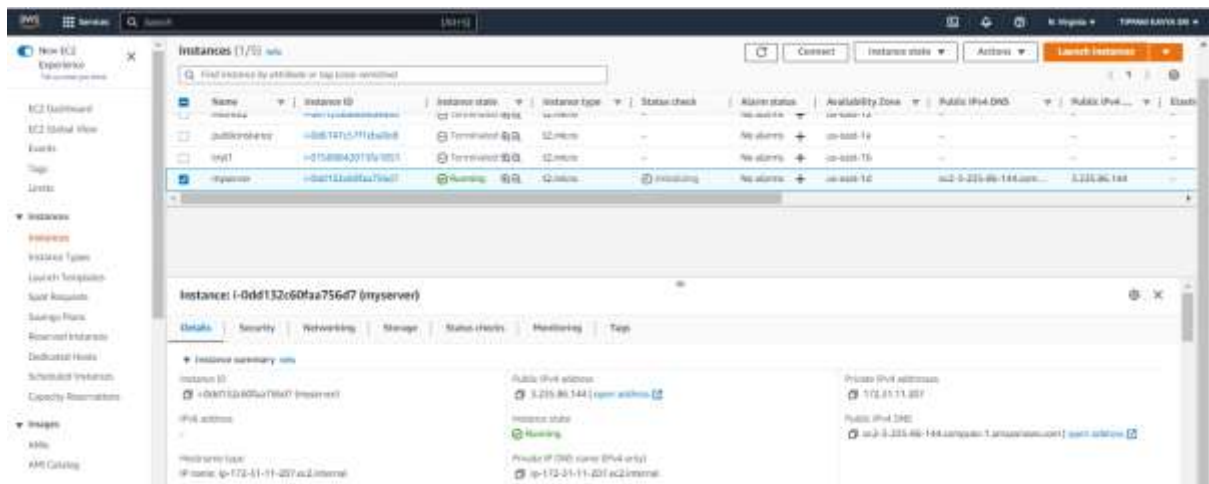


At first create an ec2 instance with the ubuntu operating system



Create a ssh keypair



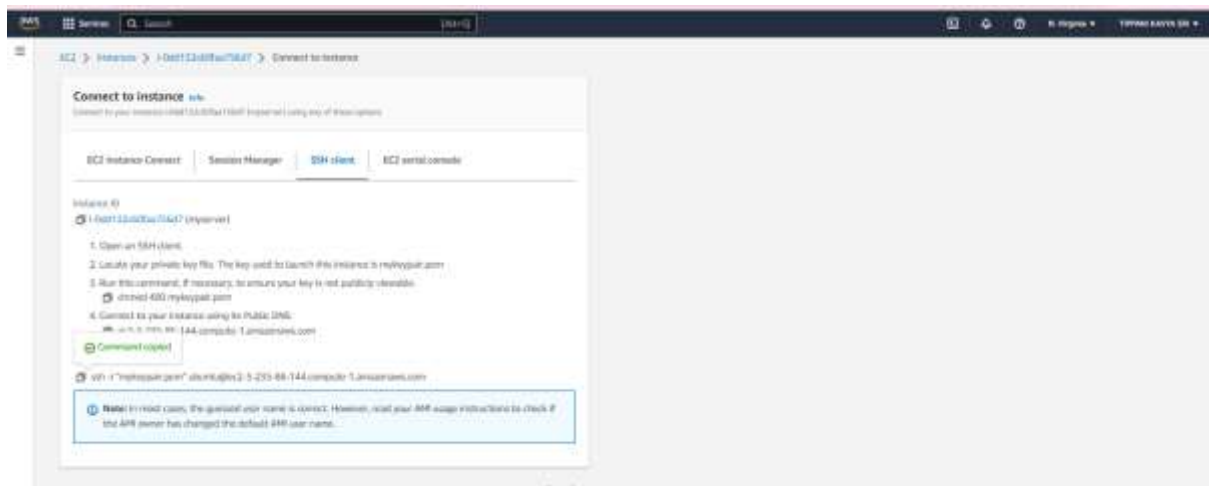


Now go to gitbash and type the command `chmod 400 keypairname.filetype`

MINGW64/c/Users/DELL/Downloads

```
tippanikavyasri@kavya MINGW64 ~/Downloads (master)
$ chmod 400 mykeypair.pem

tippanikavyasri@kavya MINGW64 ~/Downloads (master)
$
```



ubuntu@ip-172-31-11-207: ~

```
tippanikavyasri@kavya MINGW64 ~/Downloads (master)
$ ssh -i "mykeypair.pem" ubuntu@ec2-3-235-86-144.compute-1.amazonaws.com
The authenticity of host 'ec2-3-235-86-144.compute-1.amazonaws.com (3.235.86.144)' can't be established.
ED25519 key fingerprint is SHA256:d6NsrKq8Tf1A1e3QQyUqPsTCvGTnnbBQtCI558czCMY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-235-86-144.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1028-aws x86_64)

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

System information as of Sat Mar  4 17:22:51 UTC 2023

System load:  0.0185546875      Processes:           100
Usage of /:   19.8% of 7.57GB   Users logged in:    0
Memory usage: 19%              IPv4 address for eth0: 172.31.11.207
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

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-172-31-11-207:~$ |
```

Now after typing some commands install node js by using `sudo apt install nodejs` command.

```

ubuntu@ip-172-31-11-207:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [107 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [939 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [203 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [13.6 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [680 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [106 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [584 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [877 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [172 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [17.9 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [9696 B]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [3260 B]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [444 B]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [40.7 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [9800 B]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [392 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [19.5 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [14.0 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [392 B]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [680 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [139 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [8528 B]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [637 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [99.7 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [696 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [111 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4960 B]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [996 B]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [240 B]
Fetched 26.2 MB in 5s (5658 kB/s)

```

```

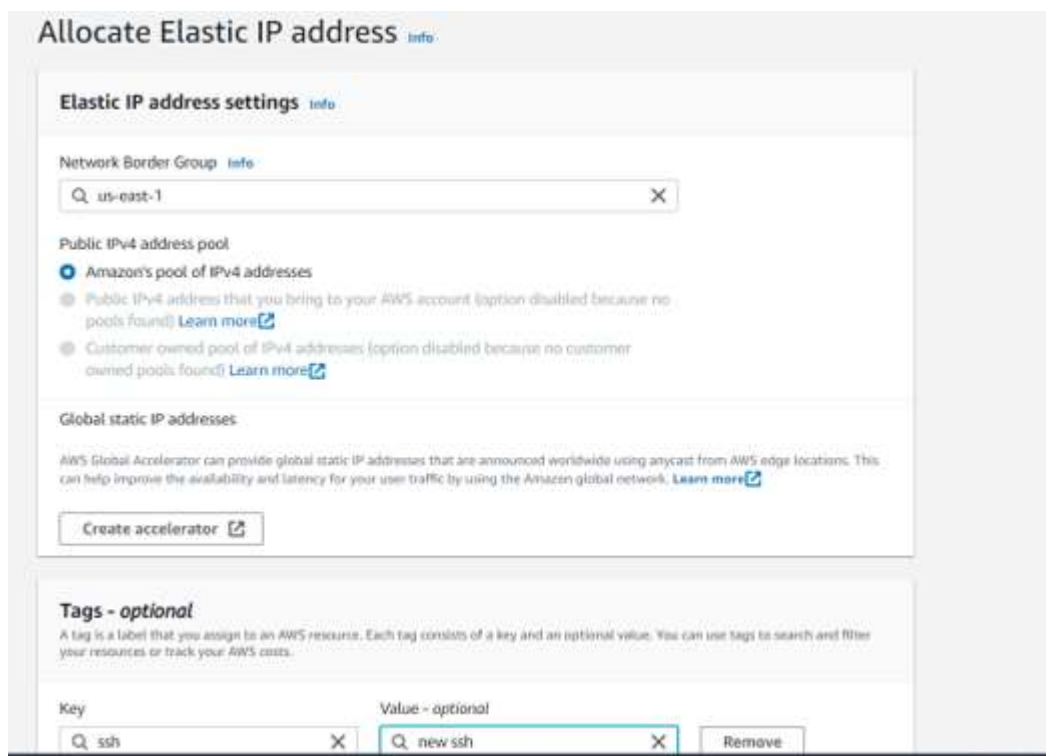
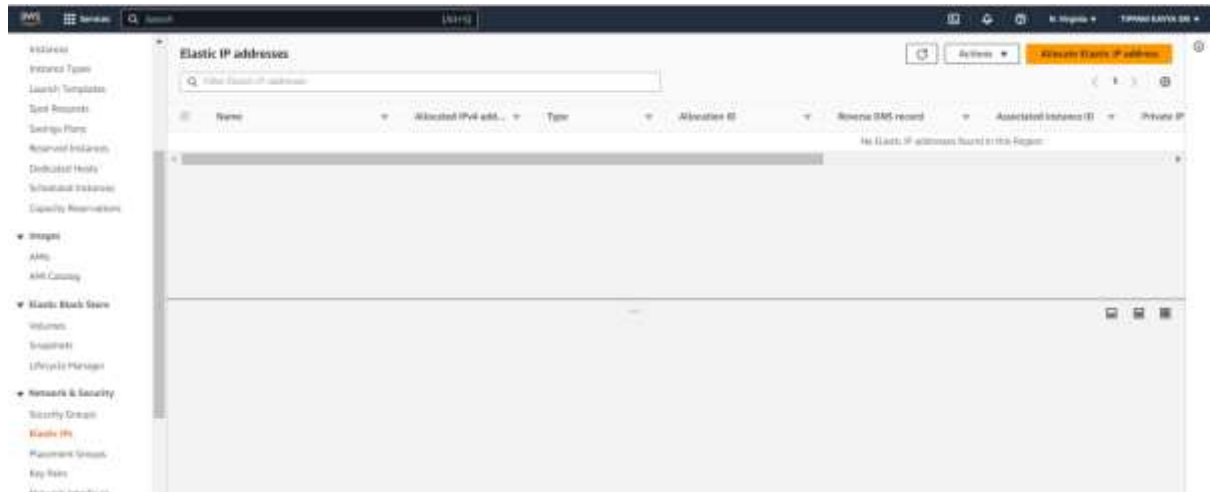
ubuntu@ip-172-31-11-207:~$ sudo apt install nodejs
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  javascript-common libc-ares2 libjs-highlight.js libnode72 nodejs-doc
Suggested packages:
  apache2 | lighttpd | httpd npm
The following NEW packages will be installed:
  javascript-common libc-ares2 libjs-highlight.js libnode72 nodejs nodejs-doc
0 upgraded, 6 newly installed, 0 to remove and 38 not upgraded.
Need to get 13.7 MB of archives.
After this operation, 53.9 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 javascript-common all 11+nmul [5936 B]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 libjs-highlight.js all 9.18.5+dfsg1-1 [367 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libc-ares2 amd64 1.18.1-1ubuntu0.22.04.1 [45.1 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 libnode72 amd64 12.22.9-dfsg-1ubuntu3 [10.8 MB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 nodejs-doc all 12.22.9-dfsg-1ubuntu3 [2409 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 nodejs amd64 12.22.9-dfsg-1ubuntu3 [122 kB]
Fetched 13.7 MB in 0s (47.8 MB/s)
Selecting previously unselected package javascript-common.
(Reading database ... 63605 files and directories currently installed.)
Preparing to unpack .../0-javascript-common_11+nmul_all.deb ...
Unpacking javascript-common (11+nmul) ...
Selecting previously unselected package libjs-highlight.js.
Preparing to unpack .../1-libjs-highlight.js_9.18.5+dfsg1-1_all.deb ...
Unpacking libjs-highlight.js (9.18.5+dfsg1-1) ...
Selecting previously unselected package libc-ares2:amd64.
Preparing to unpack .../2-libc-ares2_1.18.1-1ubuntu0.22.04.1_amd64.deb ...
Unpacking libc-ares2:amd64 (1.18.1-1ubuntu0.22.04.1) ...
Selecting previously unselected package libnode72:amd64.
Preparing to unpack .../3-libnode72_12.22.9-dfsg-1ubuntu3_amd64.deb ...
Unpacking libnode72:amd64 (12.22.9-dfsg-1ubuntu3) ...
Selecting previously unselected package nodejs-doc.
Preparing to unpack .../4-nodejs-doc_12.22.9-dfsg-1ubuntu3_all.deb ...
Unpacking nodejs-doc (12.22.9-dfsg-1ubuntu3) ...
Selecting previously unselected package nodejs.
Preparing to unpack .../5-nodejs_12.22.9-dfsg-1ubuntu3_amd64.deb ...
Unpacking nodejs (12.22.9-dfsg-1ubuntu3) ...
Setting up javascript-common (11+nmul) ...
Setting up libc-ares2:amd64 (1.18.1-1ubuntu0.22.04.1) ...
Setting up libnode72:amd64 (12.22.9-dfsg-1ubuntu3) ...
Setting up libjs-highlight.js (9.18.5+dfsg1-1) ...
Setting up nodejs (12.22.9-dfsg-1ubuntu3) ...
update-alternatives: using /usr/bin/nodejs to provide /usr/bin/js (js) in auto mode
Setting up nodejs-doc (12.22.9-dfsg-1ubuntu3) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu1.1) ...

```

To check the version of nodejs we use `node -v` . hence nodejs is successfully installed

```
ubuntu@ip-172-31-11-207:~$ node -v
v12.22.9
ubuntu@ip-172-31-11-207:~$ |
```

Also, configure the instance with an elastic ip and static public ip address.



AWS IAM Services Search [10/11] 10/11/2023 10:11

New EC2 Experience Full access per profile

EC2 Dashboard
EC2 Status View
Events
Tags
Limits

Instances
Instance Types
Launch Templates
Spot Requests
Reserved Instances
Predicted Hours
Scheduled Instances
Capacity Reservations

Images
AMI
AMI Catalog

Elastic Block Store
Volumes

Feedback Language

Elastic IP address allocated successfully
Elastic IP address: 100.24.218.138 Associate this Elastic IP address

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 100.24.218.138 Clear filters

Actions Associate Elastic IP address

View details
Release Elastic IP addresses
Associate Elastic IP address
Disassociate Elastic IP address
Unassociate Elastic IP address

Name	Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
ip-100.24.218.138	100.24.218.138	Public IP	elastic-2023-06-15-100.24.218.138	

Allocation ID: elastic-2023-06-15-100.24.218.138
Type: Public IP
Scope: VPC
Associated instance ID:
Network interface owner account ID:
Public DNS:
Reverse DNS record:
Private IP address:
NAT gateway ID:
Disassociate Elastic IP address
Unassociate Elastic IP address

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AWS IAM Services Search [10/11] 10/11/2023 10:11

New EC2 Experience Full access per profile

EC2 Dashboard
EC2 Status View
Events
Tags
Limits

Instances
Instance Types
Launch Templates
Spot Requests

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 100.24.218.138 Clear filters

Actions Associate Elastic IP address

View details
Release Elastic IP addresses
Associate Elastic IP address
Disassociate Elastic IP address
Unassociate Elastic IP address

Name	Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
ip-100.24.218.138	100.24.218.138	Public IP	elastic-2023-06-15-100.24.218.138	

Allocation ID: elastic-2023-06-15-100.24.218.138
Type: Public IP
Scope: VPC
Associated instance ID:
Network interface owner account ID:
Public DNS:
Reverse DNS record:
Private IP address:
NAT gateway ID:
Disassociate Elastic IP address
Unassociate Elastic IP address

AWS IAM Services Search [10/11] 10/11/2023 10:11

Associate Elastic IP address [Help](#)

Choose the instance or network interface to associate to this Elastic IP address 100.24.218.138

Elastic IP address: 100.24.218.138

Resource type
Choose the type of resource with which to associate the Elastic IP address

☒ Instance
☐ Network interface

WARNING
If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. [Learn more](#)

If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.

Instance
Search: i-0A12345678901234567 Clear Filter

Private IP address
The private IP address with which to associate the Elastic IP address.
Search: Choose a private IP address

Reassociation
Specify whether the Elastic IP address can be reassociated with a different resource if it is already associated with a resource.
☒ Allow the Elastic IP address to be reassigned

Elastic IP address associated successfully.
Elastic IP address 100.24.218.138 has been associated with instance i-0dd132c60faa756d7.

Elastic IP addresses (1/1)

Public IPv4 address: 100.24.218.138 [Clear filters](#)

Name	Allocated IPv4 add...	Type	Allocation ID	Reverse DNS record	Associated instance ID	Private IP
-	100.24.218.138	Public IP	elastic-0aa20c96c756d7f1f	-	i-0dd132c60faa756d7	172.31.11...

100.24.218.138

[Summary](#) [Tags](#)

Summary

Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
100.24.218.138	Public IP	elastic-0aa20c96c756d7f1f	-

Elastic IP address associated successfully.
Elastic IP address 100.24.218.138 has been associated with instance i-0dd132c60faa756d7.

Elastic IP addresses (1/1)

Public IPv4 address: 100.24.218.138 [Clear filters](#)

Name	Allocated IPv4 add...	Type	Allocation ID	Reverse DNS record	Associated instance ID	Private IP
-	100.24.218.138	Public IP	elastic-0aa20c96c756d7f1f	-	i-0dd132c60faa756d7	172.31.11...

100.24.218.138

[Summary](#) [Tags](#)

Summary

Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
100.24.218.138	Public IP	elastic-0aa20c96c756d7f1f	-

Instances (1/5) vms

Find instance by ID, name or tag (case sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	State
inst1	i-0862a170322703ade	Terminated	t2.micro	-	No alarms	us-east-1a	-	-	-
instress2	i-0c7c2a0806a4993	Terminated	t2.micro	-	No alarms	us-east-1a	-	-	-
publicserver	i-0861a7d57710a0a08	Terminated	t2.micro	-	No alarms	us-east-1a	-	-	-
inst1	i-075899a30735a79c1	Terminated	t2.micro	-	No alarms	us-east-1a	-	-	-
myserver	i-0dd132c60faa756d7	Running	t2.micro	✓ All checks passed	No alarms	us-east-1d	ec2-5-225-85-144.com...	100.24.218.138	-

Instance: i-0dd132c60faa756d7 (myserver)

[Details](#) [Security](#) [Networking](#) [Storage](#) [Status checks](#) [Monitoring](#) [Tags](#)

Instance summary vms

Instance ID: i-0dd132c60faa756d7 [Instance](#)

IPv4 address: -

Instance type: t2.micro (us-east-1d-202 and internal)

Source: ec2-instance-profile-756d7

Public IPv4 address: 100.24.218.138 [Open address](#)

Instance state: [Running](#)

Private IP DNS name (IPv4 only): ip-172-31-11-207.ec2.internal

Instance name: -

Private IPv4 addresses: 172.31.11.207

Public IPv4 DNS: ec2-5-225-85-144.compute-1.amazonaws.com [Open address](#)

Private IP addresses: -


```

tippanikavyasri@kavya MINGW64 ~/Downloads (master)
$ ssh -i "mykeypair.pem" ubuntu@100.24.218.138
The authenticity of host '100.24.218.138 (100.24.218.138)' can't be established.
ED25519 key fingerprint is SHA256:d6NsrKq8Tf1A1e3QqYUqPsTCvGTnnbBQtCI558czCMY.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:2: ec2-3-235-86-144.compute-1.amazonaws.com
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '100.24.218.138' (ED25519) to the list of known hosts
.
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1028-aws x86_64)

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

System information as of Sat Mar  4 17:34:38 UTC 2023

System load:  0.0               Processes:           100
Usage of /:   23.1% of 7.57GB   Users logged in:    1
Memory usage: 22%              IPv4 address for eth0: 172.31.11.207
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

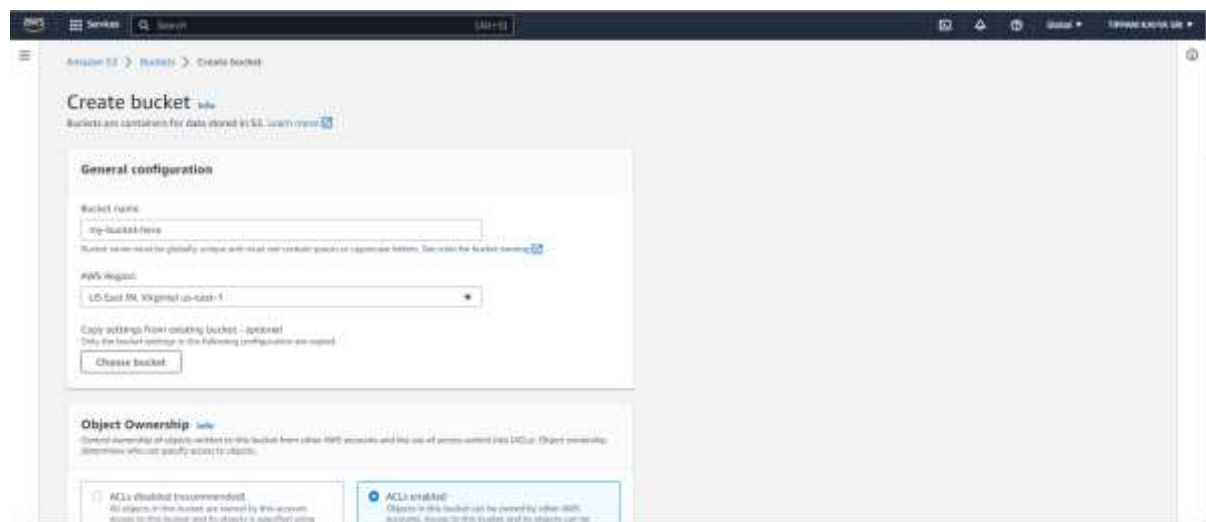
36 updates can be applied immediately.
18 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

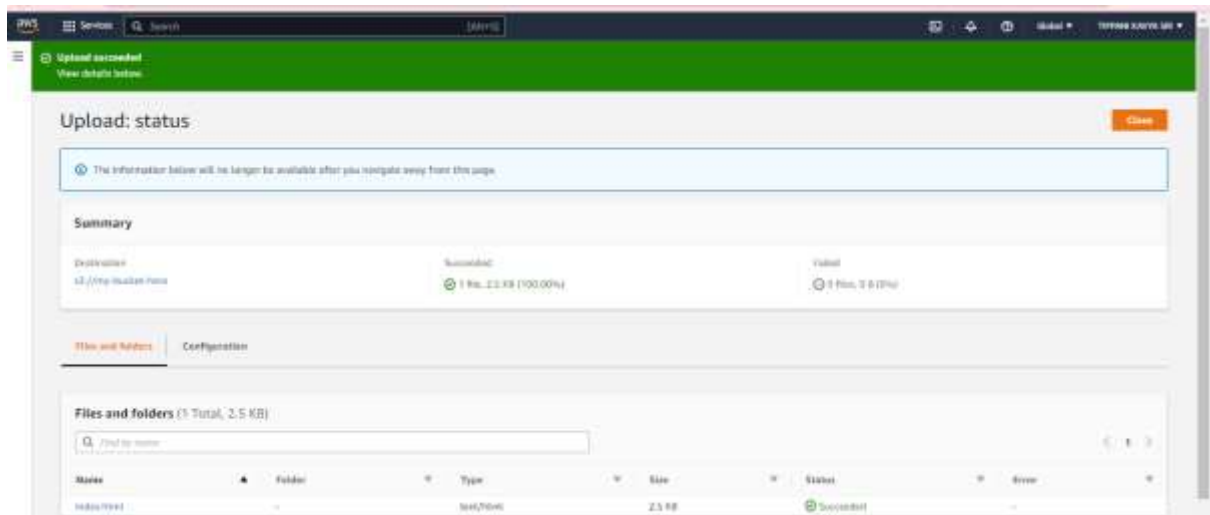
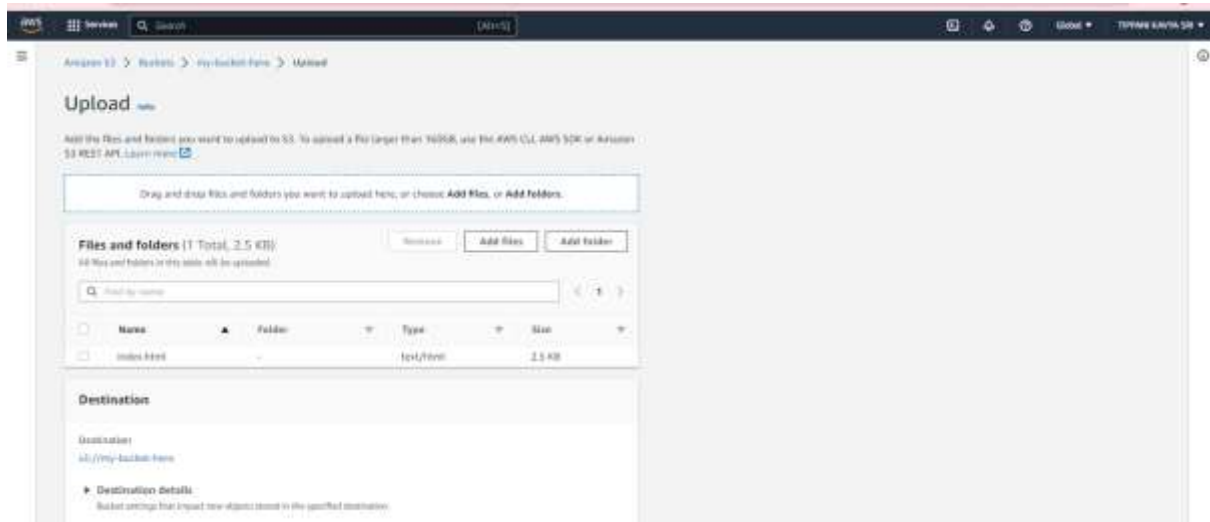
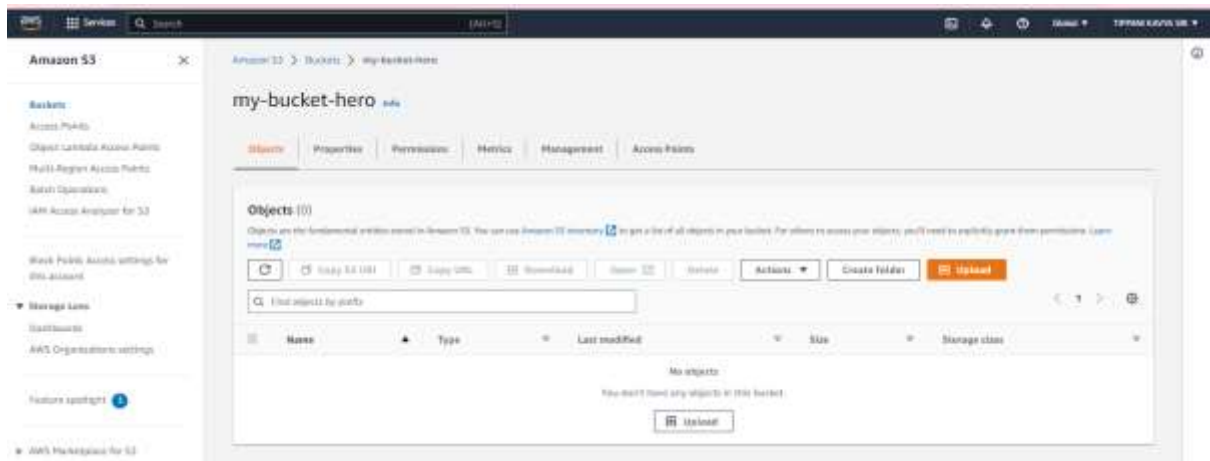
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

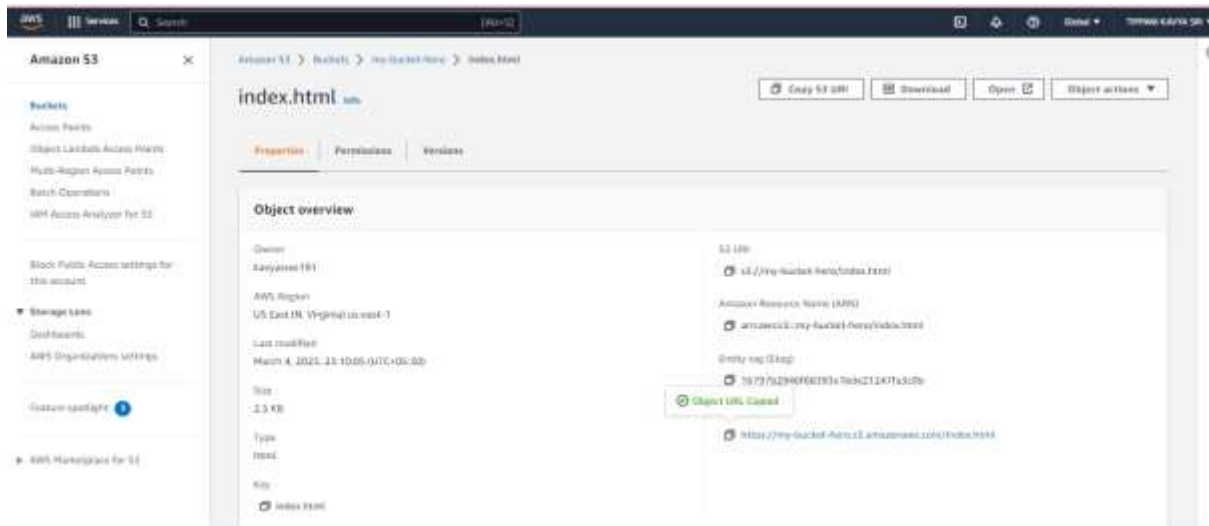
Last login: Sat Mar  4 17:22:52 2023 from 223.196.170.35
ubuntu@ip-172-31-11-207:~$

```

create an S3 bucket and upload an object to it







Copy the object reference url and paste it in the browser.



Now make the uploaded file into public by using ACL.

