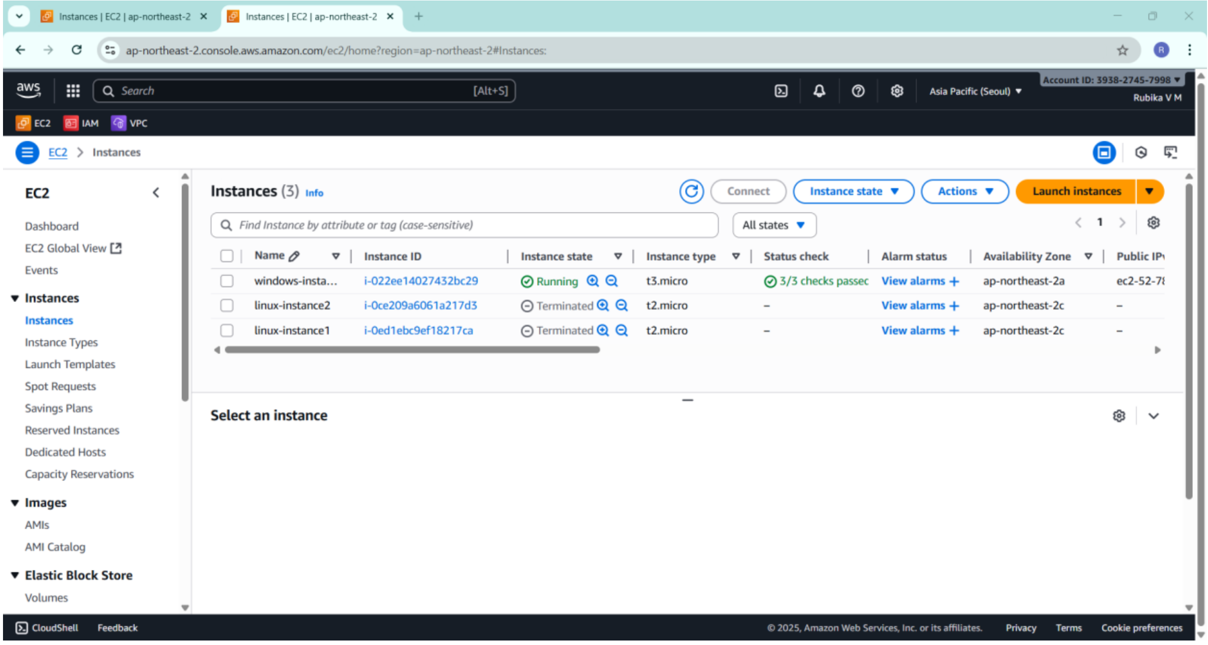
# TASK – 7

## Elastic block storage (windows)….

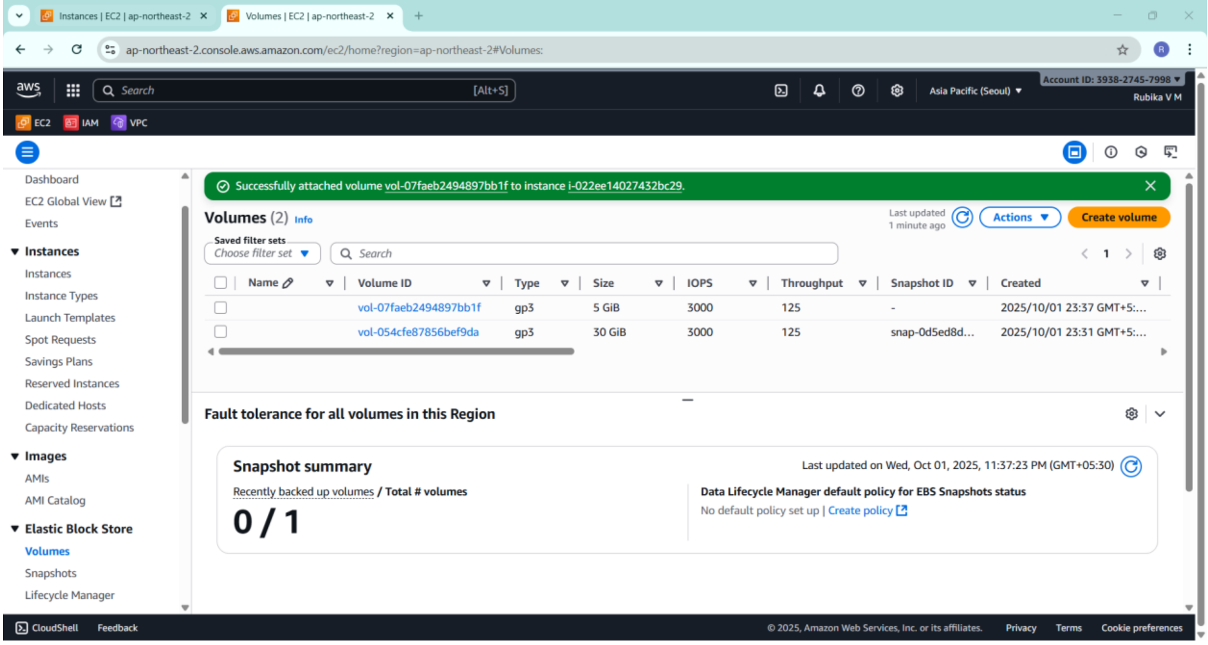


ap-northeast-2.console.aws.amazon.com/ec2/home?region=ap-northeast-2#Instances:

Instances (3) Info

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IP |
|---|---|---|---|---|---|---|---|
| windows-insta… | i-022ee14027432bc29 | Running | t3.micro | 3/3 checks passec | View alarms + | ap-northeast-2a | ec2-52-7 |
| linux-instance2 | i-0ce209a6061a217d3 | Terminated | t2.micro | – | View alarms + | ap-northeast-2c | – |
| linux-instance1 | i-0ed1ebc9ef18217ca | Terminated | t2.micro | – | View alarms + | ap-northeast-2c | – |

Select an instance



ap-northeast-2.console.aws.amazon.com/ec2/home?region=ap-northeast-2#Volumes:

Successfully attached volume vol-07faeb2494897bb1f to instance i-022ee14027432bc29.

Volumes (2) Info

| Name | Volume ID | Type | Size | IOPS | Throughput | Snapshot ID | Created |
|---|---|---|---|---|---|---|---|
| | vol-07faeb2494897bb1f | gp3 | 5 GiB | 3000 | 125 | - | 2025/10/01 23:37 GMT+5:… |
| | vol-054cfe87856bef9da | gp3 | 30 GiB | 3000 | 125 | snap-0d5ed8d… | 2025/10/01 23:31 GMT+5:… |

Fault tolerance for all volumes in this Region

Snapshot summary

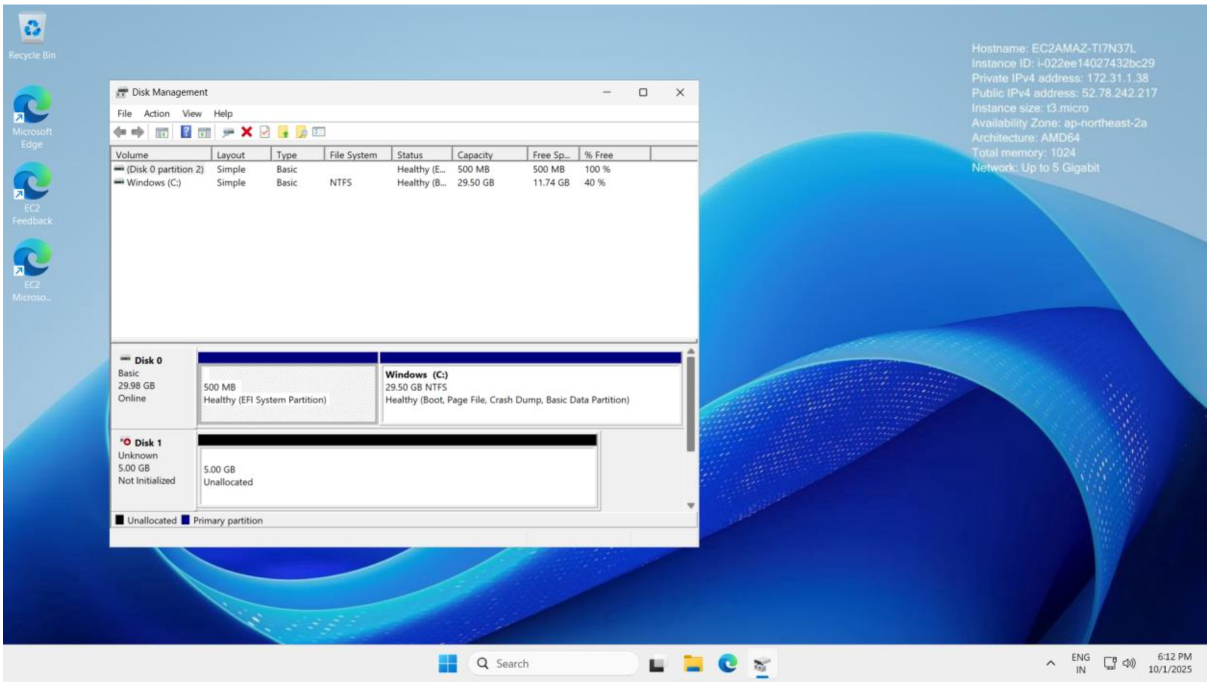
Last updated on Wed, Oct 01, 2025, 11:37:23 PM (GMT+05:30)

Recently backed up volumes / Total # volumes

0 / 1

Data Lifecycle Manager default policy for EBS Snapshots status

No default policy set up | Create policy



Disk Management

| Volume | Layout | Type | File System | Status | Capacity | Free Sp... | % Free |
|---|---|---|---|---|---|---|---|
| (Disk 0 partition 2) | Simple | Basic |  | Healthy (E... | 500 MB | 500 MB | 100 % |
| Windows (C:) | Simple | Basic | NTFS | Healthy (B... | 29.50 GB | 11.74 GB | 40 % |

Disk 0
Basic
29.98 GB
Online

500 MB
Healthy (EFI System Partition)

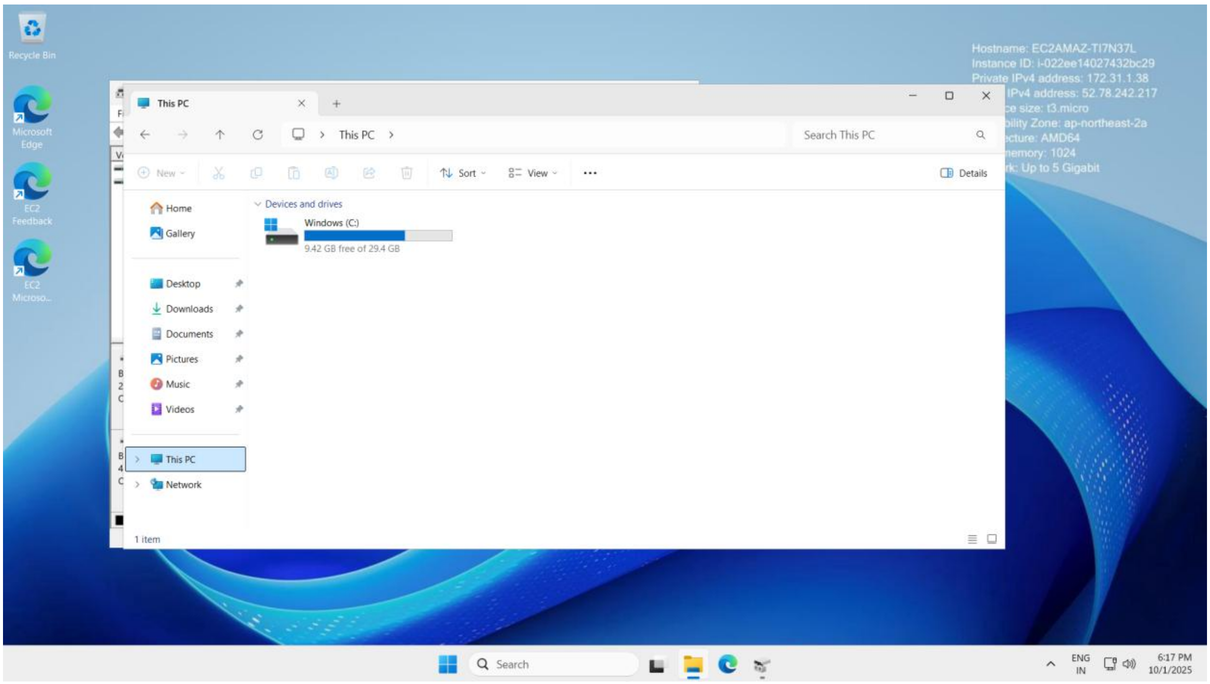
Windows (C:)
29.50 GB NTFS
Healthy (Boot, Page File, Crash Dump, Basic Data Partition)

Disk 1
Unknown
5.00 GB
Not Initialized

5.00 GB
Unallocated

■ Unallocated ■ Primary partition

Hostname: EC2AMAZ-TI7N37L
Instance ID: i-022ee14027432bc29
Private IPv4 address: 172.31.1.38
Public IPv4 address: 52.78.242.217
Instance size: t3.micro
Availability Zone: ap-northeast-2a
Architecture: AMD64
Total memory: 1024
Network: Up to 5 Gigabit

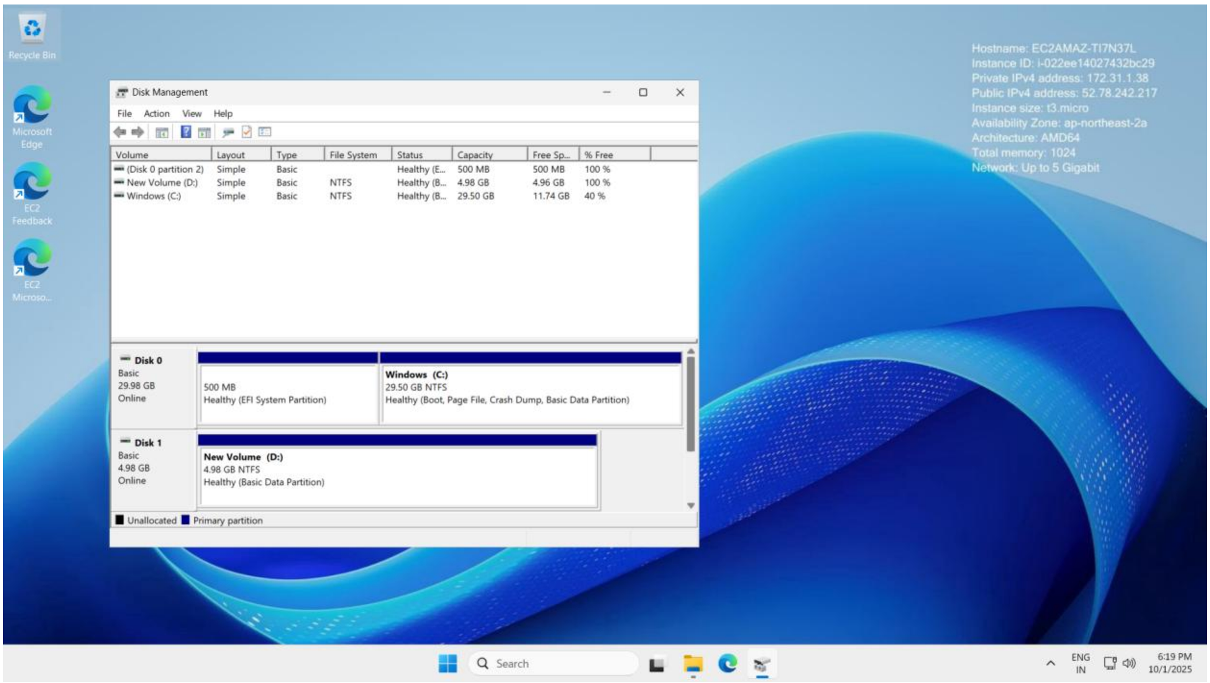


This PC

Devices and drives

Windows (C:)
9.42 GB free of 29.4 GB

1 item



Hostname: EC2AMAZ-TI7N37L
Instance ID: i-022ee14027432bc29
Private IPv4 address: 172.31.1.38
Public IPv4 address: 52.78.242.217
Instance size: t3.micro
Availability Zone: ap-northeast-2a
Architecture: AMD64
Total memory: 1024
Network: Up to 5 Gigabit

| Volume | Layout | Type | File System | Status | Capacity | Free Sp... | % Free |
|---|---|---|---|---|---|---|---|
| (Disk 0 partition 2) | Simple | Basic |  | Healthy (E... | 500 MB | 500 MB | 100 % |
| New Volume (D:) | Simple | Basic | NTFS | Healthy (B... | 4.98 GB | 4.96 GB | 100 % |
| Windows (C:) | Simple | Basic | NTFS | Healthy (B... | 29.50 GB | 11.74 GB | 40 % |

Disk 0
Basic
29.98 GB
Online

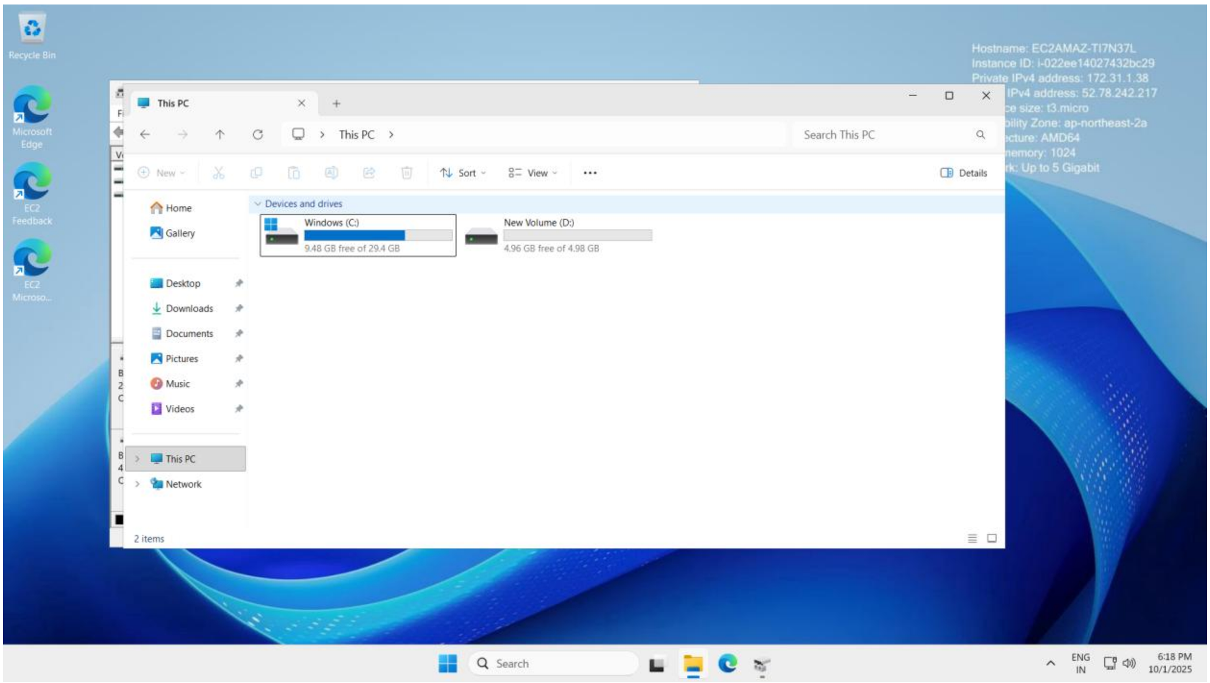
500 MB
Healthy (EFI System Partition)

Windows (C:)
29.50 GB NTFS
Healthy (Boot, Page File, Crash Dump, Basic Data Partition)

Disk 1
Basic
4.98 GB
Online

New Volume (D:)
4.98 GB NTFS
Healthy (Basic Data Partition)

■ Unallocated ■ Primary partition



Hostname: EC2AMAZ-TI7N37L
Instance ID: i-022ee14027432bc29
Private IPv4 address: 172.31.1.38
IPv4 address: 52.78.242.217
ce size: t3.micro
bility Zone: ap-northeast-2a
cture: AMD64
memory: 1024
k: Up to 5 Gigabit

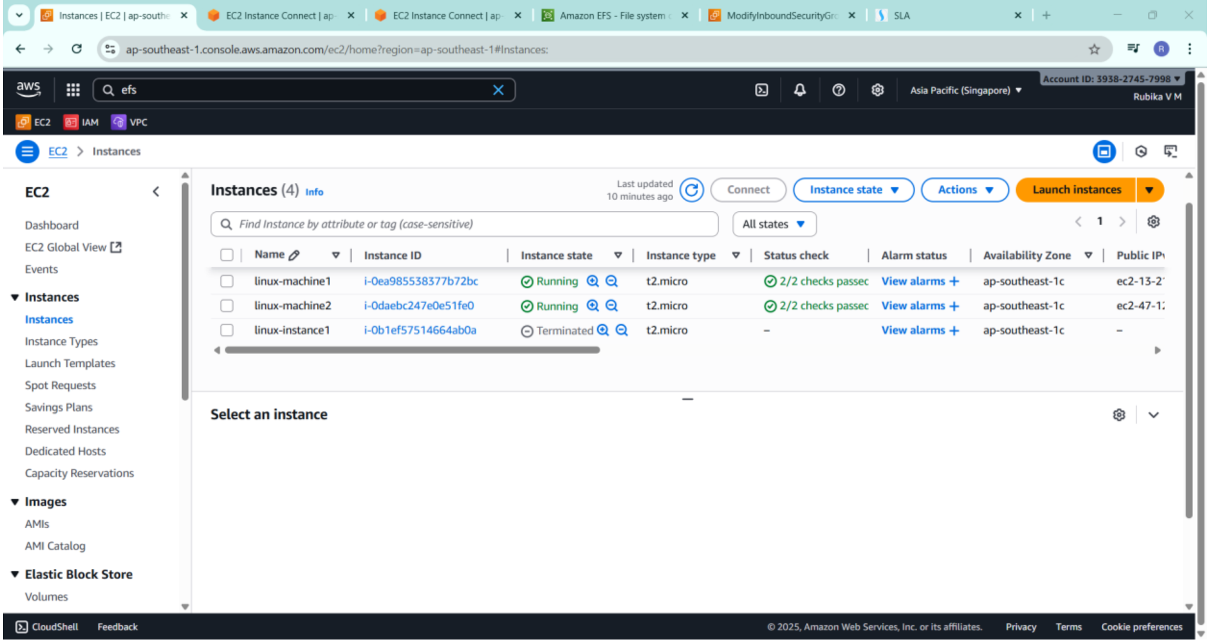
Devices and drives

Windows (C:)
9.48 GB free of 29.4 GB

New Volume (D:)
4.96 GB free of 4.98 GB

2 items

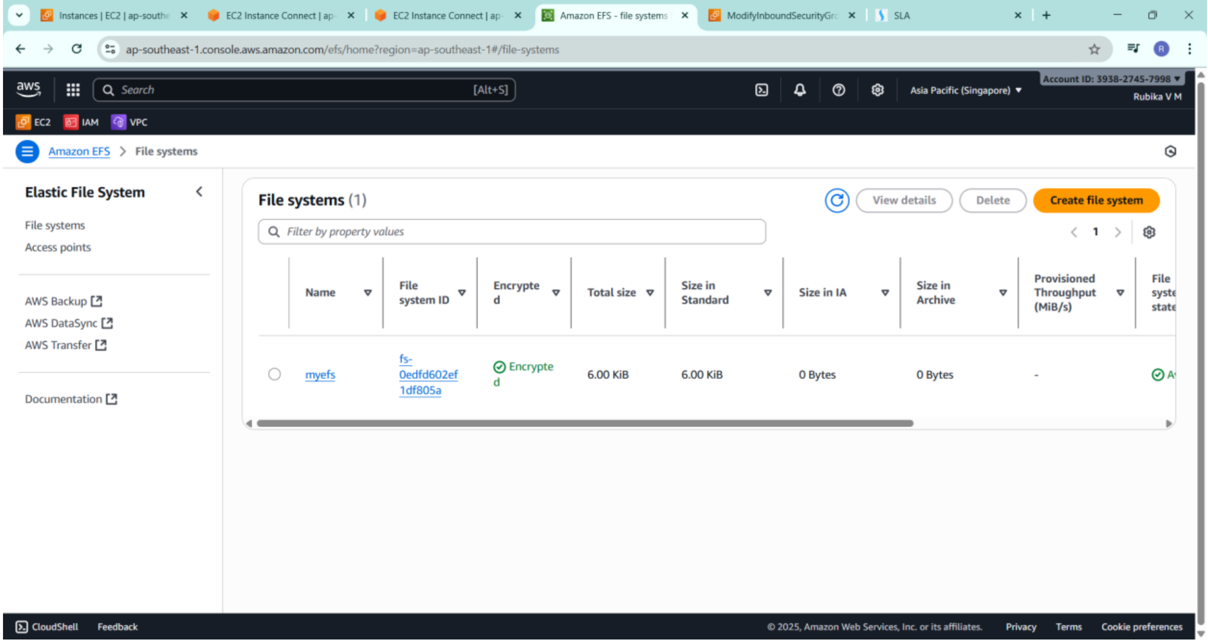
# Elastic File System….



Instances (4) Info

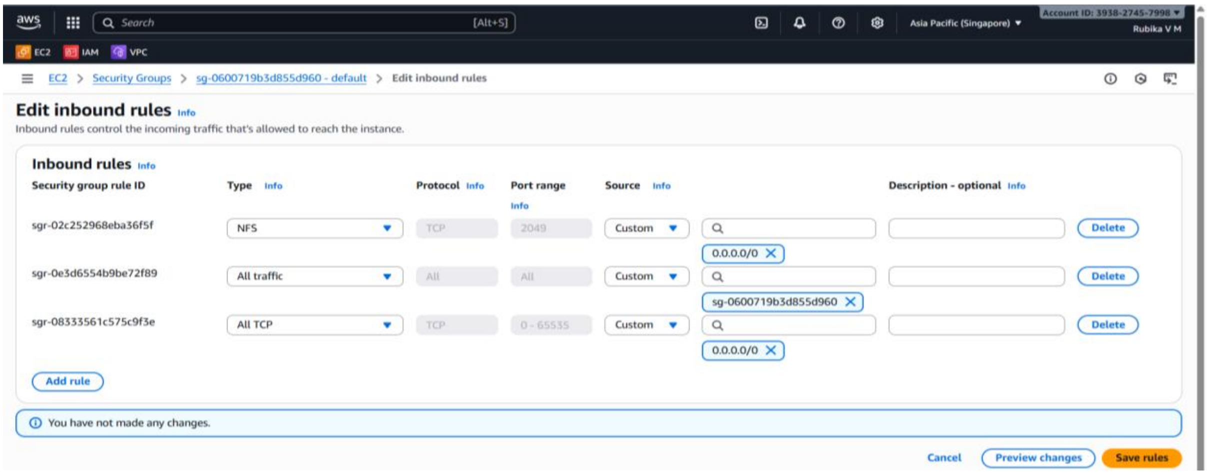
| □ | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IP |
|---|---|---|---|---|---|---|---|---|
| □ | linux-machine1 | i-0ea985538377b72bc | ✓ Running | t2.micro | ✓ 2/2 checks passec | View alarms + | ap-southeast-1c | ec2-13-2 |
| □ | linux-machine2 | i-0daebc247e0e51fe0 | ✓ Running | t2.micro | ✓ 2/2 checks passec | View alarms + | ap-southeast-1c | ec2-47-1 |
| □ | linux-instance1 | i-0b1ef57514664ab0a | ⊖ Terminated | t2.micro | – | View alarms + | ap-southeast-1c | – |

Select an instance


Instances | EC2 | ap-southe
EC2 Instance Connect | ap
EC2 Instance Connect | ap
Amazon EFS - file systems
ModifyInboundSecurityGr
SLA
ap-southeast-1.console.aws.amazon.com/efs/home?region=ap-southeast-1#/file-systems
Search
[Alt+S]
Asia Pacific (Singapore)
Account ID: 3938-2745-7998
Rubika V M
EC2
IAM
VPC
Amazon EFS > File systems
Elastic File System
File systems
Access points
AWS Backup
AWS DataSync
AWS Transfer
Documentation
View details
Delete
Create file system
Filter by property values
1
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

File systems (1)

| ○ | Name | File system ID | Encrypted | Total size | Size in Standard | Size in IA | Size in Archive | Provisioned Throughput (MiB/s) | File system state |
|---|---|---|---|---|---|---|---|---|---|
| ○ | myefs | fs-0edfd602ef1df805a | ✓ Encrypted | 6.00 KiB | 6.00 KiB | 0 Bytes | 0 Bytes | - | ✓ A |



EC2 > Security Groups > sg-0600719b3d855d960 - default > Edit inbound rules

## Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

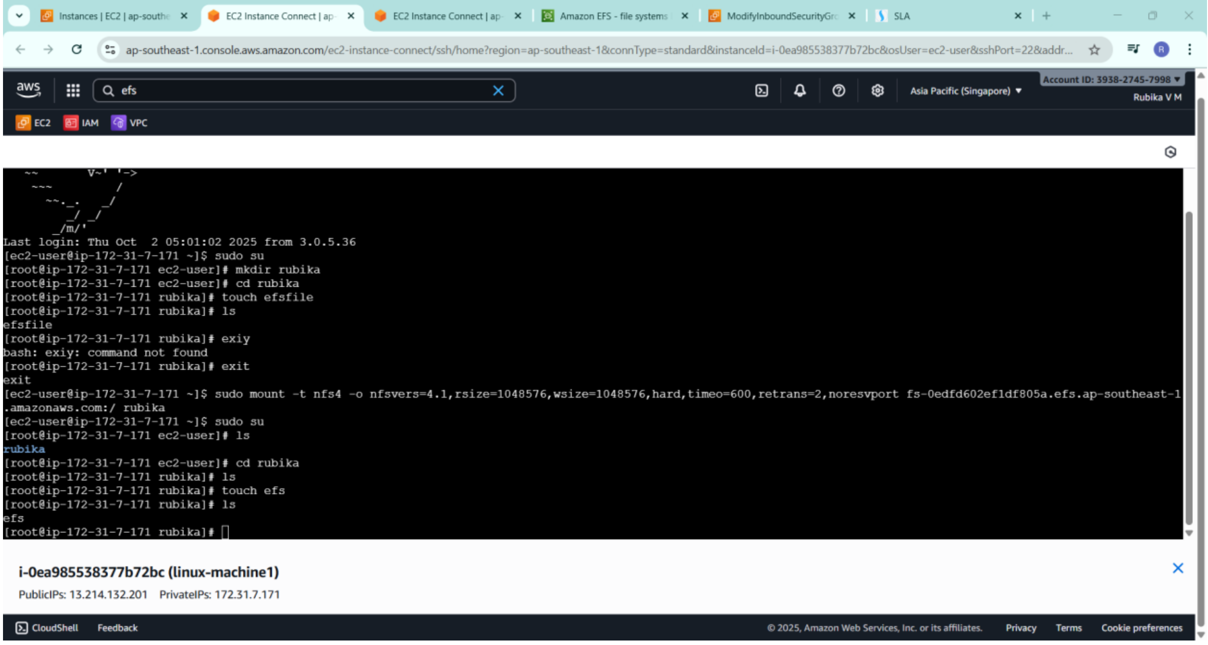
### Inbound rules Info

| Security group rule ID | Type | Protocol | Port range | Source | | Description - optional | |
|---|---|---|---|---|---|---|---|
| sgr-02c252968eba36f5f | NFS | TCP | 2049 | Custom | 0.0.0.0/0 | | Delete |
| sgr-0e3d6554b9be72f89 | All traffic | All | All | Custom | sg-0600719b3d855d960 | | Delete |
| sgr-08333561c575c9f3e | All TCP | TCP | 0 - 65535 | Custom | 0.0.0.0/0 | | Delete |

Add rule

ⓘ You have not made any changes.

Cancel　Preview changes　Save rules


Instances | EC2 | ap-southe
EC2 Instance Connect | ap-
EC2 Instance Connect | ap-
Amazon EFS - file systems
ModifyInboundSecurityGr
SLA
Account ID: 3938-2745-7998
Asia Pacific (Singapore)
Rubika V M
EC2
IAM
VPC
CloudShell
Feedback
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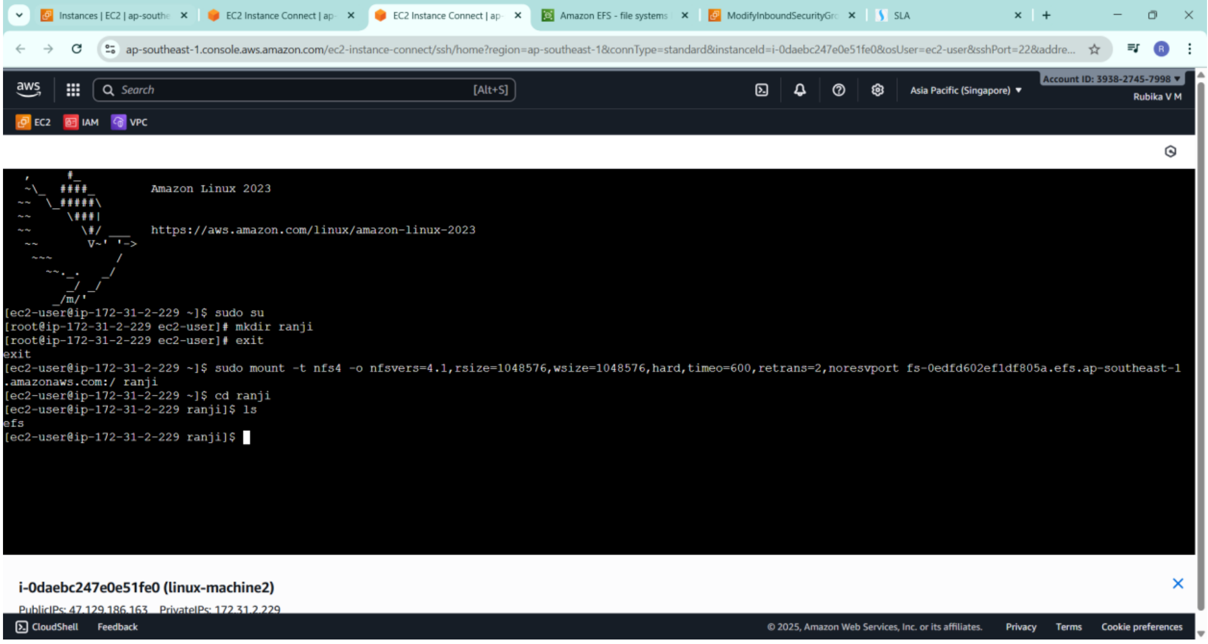
ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-southeast-1&connType=standard&instanceId=i-0ea985538377b72bc&osUser=ec2-user&sshPort=22&addr...

Search: efs

```
  ~~        V~' '->
   ~~~         /
     ~~._.   _/
        _/ _/
      _/m/'
Last login: Thu Oct  2 05:01:02 2025 from 3.0.5.36
[ec2-user@ip-172-31-7-171 ~]$ sudo su
[root@ip-172-31-7-171 ec2-user]# mkdir rubika
[root@ip-172-31-7-171 ec2-user]# cd rubika
[root@ip-172-31-7-171 rubika]# touch efsfile
[root@ip-172-31-7-171 rubika]# ls
efsfile
[root@ip-172-31-7-171 rubika]# exiy
bash: exiy: command not found
[root@ip-172-31-7-171 rubika]# exit
exit
[ec2-user@ip-172-31-7-171 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0edfd602ef1df805a.efs.ap-southeast-1
.amazonaws.com:/ rubika
[ec2-user@ip-172-31-7-171 ~]$ sudo su
[root@ip-172-31-7-171 ec2-user]# ls
rubika
[root@ip-172-31-7-171 ec2-user]# cd rubika
[root@ip-172-31-7-171 rubika]# ls
[root@ip-172-31-7-171 rubika]# touch efs
[root@ip-172-31-7-171 rubika]# ls
efs
[root@ip-172-31-7-171 rubika]#
```

**i-0ea985538377b72bc (linux-machine1)**

PublicIPs: 13.214.132.201　PrivateIPs: 172.31.7.171


Instances | EC2 | ap-southe
EC2 Instance Connect | ap-
EC2 Instance Connect | ap-
Amazon EFS - file systems
ModifyInboundSecurityGr
SLA
Search [Alt+S]
Account ID: 3938-2745-7998
Asia Pacific (Singapore)
Rubika V M
EC2
IAM
VPC
CloudShell
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ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-southeast-1&connType=standard&instanceId=i-0daebc247e0e51fe0&osUser=ec2-user&sshPort=22&addre...

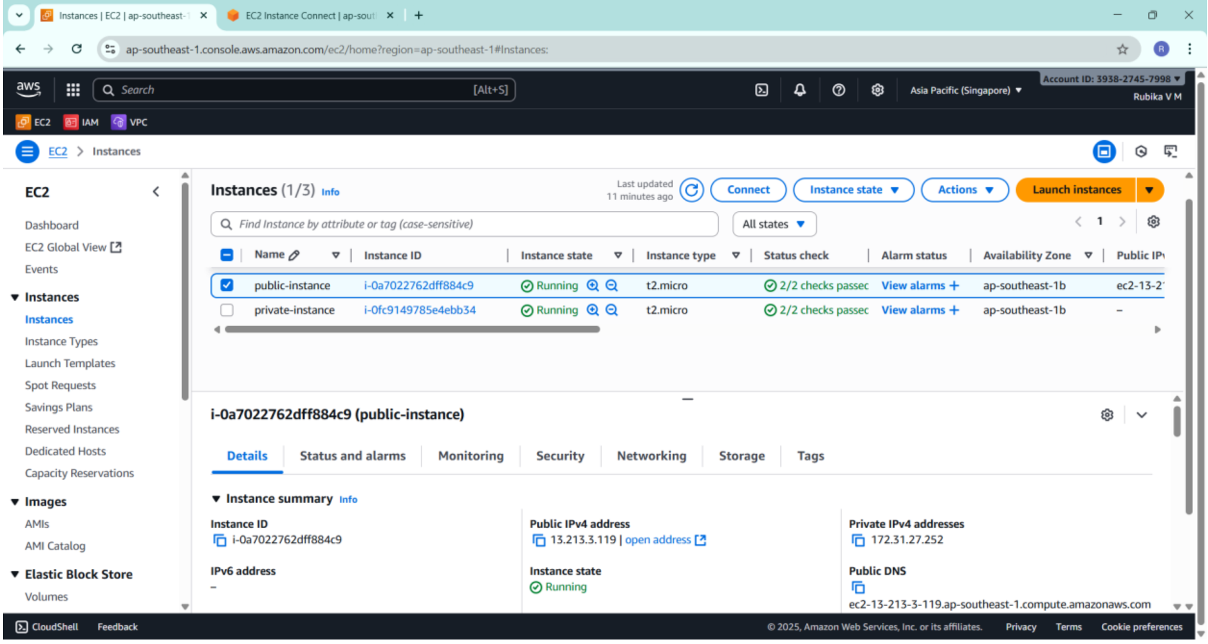
```
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-172-31-2-229 ~]$ sudo su
[root@ip-172-31-2-229 ec2-user]# mkdir ranji
[root@ip-172-31-2-229 ec2-user]# exit
exit
[ec2-user@ip-172-31-2-229 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0edfd602ef1df805a.efs.ap-southeast-1
.amazonaws.com:/ ranji
[ec2-user@ip-172-31-2-229 ~]$ cd ranji
[ec2-user@ip-172-31-2-229 ranji]$ ls
efs
[ec2-user@ip-172-31-2-229 ranji]$
```

**i-0daebc247e0e51fe0 (linux-machine2)**

PublicIPs: 47.129.186.163　PrivateIPs: 172.31.2.229

## Connecting the private instance inside the public instance….

## Public instance:



Instances (1/3) Info

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IP |
|---|---|---|---|---|---|---|---|---|
| ☑ | public-instance | i-0a7022762dff884c9 | Running | t2.micro | 2/2 checks passec | View alarms + | ap-southeast-1b | ec2-13-2 |
| □ | private-instance | i-0fc9149785e4ebb34 | Running | t2.micro | 2/2 checks passec | View alarms + | ap-southeast-1b | – |

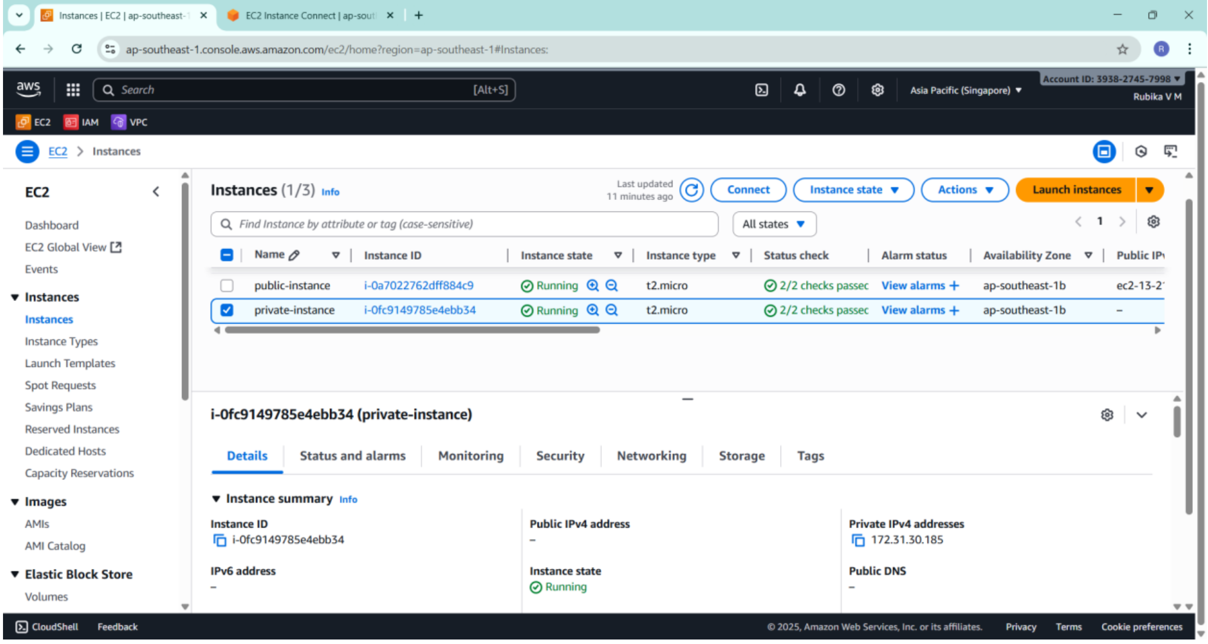
i-0a7022762dff884c9 (public-instance)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary Info

| | | |
|---|---|---|
| Instance ID<br>i-0a7022762dff884c9 | Public IPv4 address<br>13.213.3.119 \| open address | Private IPv4 addresses<br>172.31.27.252 |
| IPv6 address<br>– | Instance state<br>Running | Public DNS<br>ec2-13-213-3-119.ap-southeast-1.compute.amazonaws.com |

## Private instance:



Instances (1/3) Info

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IP |
|---|---|---|---|---|---|---|---|---|
| □ | public-instance | i-0a7022762dff884c9 | Running | t2.micro | 2/2 checks passec | View alarms + | ap-southeast-1b | ec2-13-2 |
| ☑ | private-instance | i-0fc9149785e4ebb34 | Running | t2.micro | 2/2 checks passec | View alarms + | ap-southeast-1b | – |

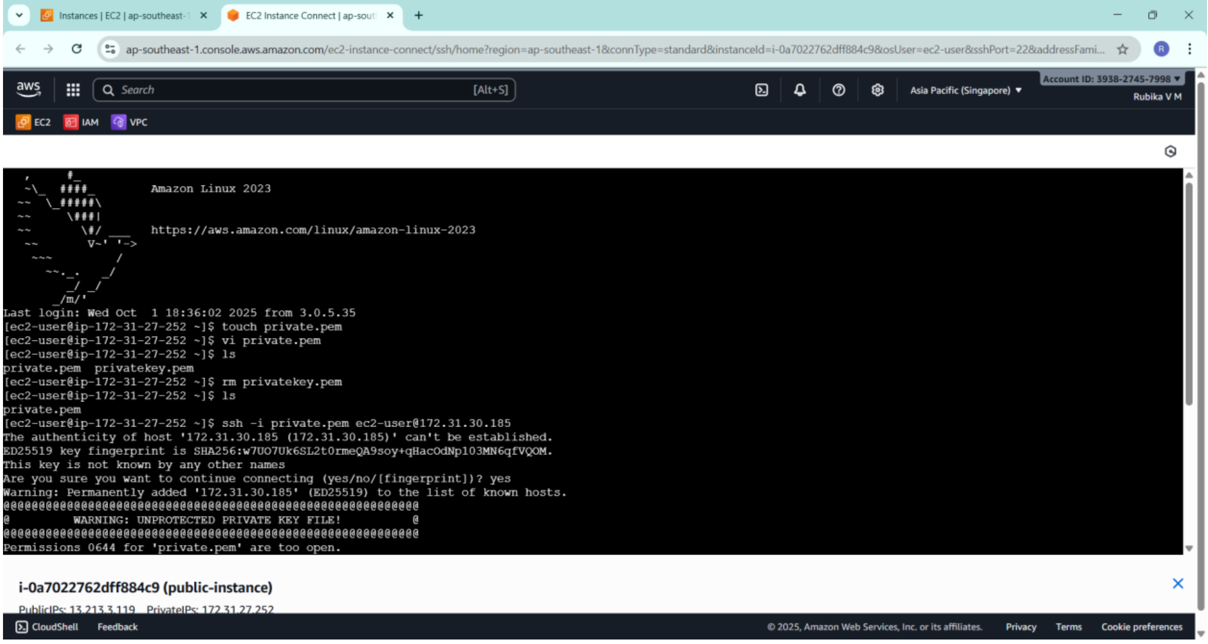
i-0fc9149785e4ebb34 (private-instance)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary Info

| | | |
|---|---|---|
| Instance ID<br>i-0fc9149785e4ebb34 | Public IPv4 address<br>– | Private IPv4 addresses<br>172.31.30.185 |
| IPv6 address<br>– | Instance state<br>Running | Public DNS<br>– |

## Connecting private instance into public….


Instances | EC2 | ap-southeast-
EC2 Instance Connect | ap-sout
ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-southeast-1&connType=standard&instanceId=i-0a7022762dff884c9&osUser=ec2-user&sshPort=22&addressFami...
aws
Search
[Alt+S]
Asia Pacific (Singapore) ▾
Account ID: 3938-2745-7998 ▾
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EC2
IAM
VPC
CloudShell
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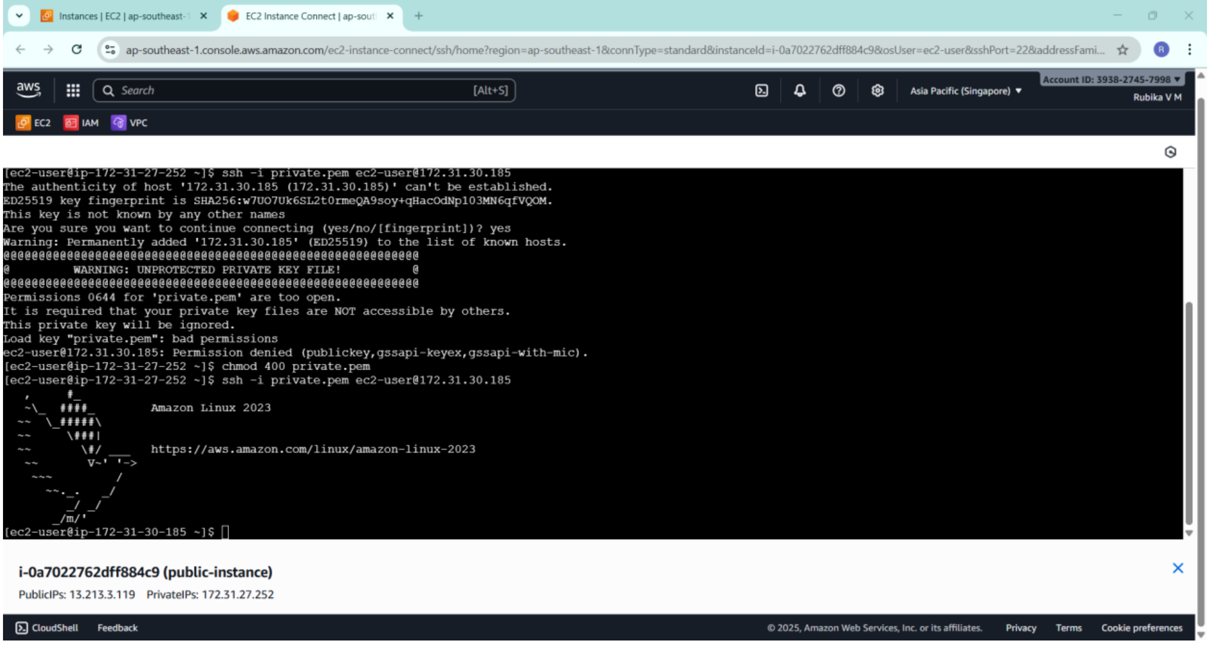
```
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Wed Oct  1 18:36:02 2025 from 3.0.5.35
[ec2-user@ip-172-31-27-252 ~]$ touch private.pem
[ec2-user@ip-172-31-27-252 ~]$ vi private.pem
[ec2-user@ip-172-31-27-252 ~]$ ls
private.pem  privatekey.pem
[ec2-user@ip-172-31-27-252 ~]$ rm privatekey.pem
[ec2-user@ip-172-31-27-252 ~]$ ls
private.pem
[ec2-user@ip-172-31-27-252 ~]$ ssh -i private.pem ec2-user@172.31.30.185
The authenticity of host '172.31.30.185 (172.31.30.185)' can't be established.
ED25519 key fingerprint is SHA256:w7UO7Uk6SL2t0rmeQA9soy+qHacOdNp103MN6qfVQOM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.31.30.185' (ED25519) to the list of known hosts.
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@         WARNING: UNPROTECTED PRIVATE KEY FILE!          @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions 0644 for 'private.pem' are too open.
```

**i-0a7022762dff884c9 (public-instance)**

PublicIPs: 13.213.3.119  PrivateIPs: 172.31.27.252


Instances | EC2 | ap-southeast-
EC2 Instance Connect | ap-sout
ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-southeast-1&connType=standard&instanceId=i-0a7022762dff884c9&osUser=ec2-user&sshPort=22&addressFami...
aws
Search
[Alt+S]
Asia Pacific (Singapore) ▾
Account ID: 3938-2745-7998 ▾
Rubika V M
EC2
IAM
VPC
CloudShell
Feedback
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Cookie preferences

```
[ec2-user@ip-172-31-27-252 ~]$ ssh -i private.pem ec2-user@172.31.30.185
The authenticity of host '172.31.30.185 (172.31.30.185)' can't be established.
ED25519 key fingerprint is SHA256:w7UO7Uk6SL2t0rmeQA9soy+qHacOdNp103MN6qfVQOM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.31.30.185' (ED25519) to the list of known hosts.
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@         WARNING: UNPROTECTED PRIVATE KEY FILE!          @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions 0644 for 'private.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "private.pem": bad permissions
ec2-user@172.31.30.185: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
[ec2-user@ip-172-31-27-252 ~]$ chmod 400 private.pem
[ec2-user@ip-172-31-27-252 ~]$ ssh -i private.pem ec2-user@172.31.30.185
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-172-31-30-185 ~]$ 
```

**i-0a7022762dff884c9 (public-instance)**

PublicIPs: 13.213.3.119  PrivateIPs: 172.31.27.252