

EBS, Snapshot, EFS

The screenshot displays two main sections of the AWS console.

Console Home: This section includes:

- A "Recently visited" panel showing links to EC2 and S3.
- An "Applications" panel showing 0 applications in the US East (N. Virginia) region. It includes a "Create application" button and a message stating "The data couldn't be retrieved. Try again later."
- A "Welcome to AWS" panel with sections for "Getting started with AWS" (including a rocket icon and a link to learn fundamentals), "Training and certification" (including a graduation cap icon and a link to learn from experts), and "AWS Health" (showing "No health data").
- A "Cost and usage" panel showing current month costs, cost breakdown, forecasted month end costs, and savings opportunities, all of which are currently unable to load.

EC2 Page: This page is for the Amazon EC2 service.

- Left sidebar:** Includes sections for Dashboard, Instances (with sub-options like Instances, Instance Types, Launch Templates, etc.), Images, Elastic Block Store, Network & Security, and CloudShell/Feedback.
- Main content area:** A central panel shows a message: "You can change your default landing page for EC2." It contains sections for Resources (listing 0 instances, 0 auto scaling groups, 0 dedicated hosts, etc.), Launch instance (with "Launch instance" and "Migrate a server" buttons), Service health (status: "This service is operating normally"), and Instance alarms (with 0 in alarm, 0 OK, and 0 insufficient data).
- Right sidebar:** Account attributes settings, including sections for Settings (Data protection and security, Allowed AMIs, Zones, EC2 Serial Console, Default credit specification, EC2 console preferences), Additional information (Get started walkthroughs, Getting started guide, Documentation, All EC2 resources, Forums, Pricing, Contact us), and a "Change landing page" button.

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Screenshot of the AWS EC2 Instances Launch an instance page:

Name and tags: myebs1

Application and OS Images (Amazon Machine Image): Amazon Linux 2023 AMI

Quick Start: Quick links to various AMIs.

Description: Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable, and high-performance execution environment to develop and run your cloud applications.

Configure storage: 1x 8 GiB gp3 Root volume, 3000 IOPS, Not encrypted; 1x 5 GiB gp3 EBS volume, 3000 IOPS, Not encrypted.

Summary: Number of instances: 1

Software Image (AMI): Amazon Linux 2023 AMI 2023.6.2...read more

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Launch instance

Screenshot of the AWS EC2 Instances Launch an instance page (continued):

Allow HTTP traffic from the internet: To set up an endpoint, for example when creating a web server.

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Configure storage: Advanced settings for storage volumes.

Summary: Number of instances: 1

Software Image (AMI): Amazon Linux 2023 AMI 2023.6.2...read more

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 2 volume(s) - 13 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Launch instance

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The screenshot shows a browser window with multiple tabs open. The active tab is 'Launch an instance | EC2' at 'us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances'. A green success message box at the top says 'Successfully initiated launch of instance i-0afc3f67072f5a7d4'. Below it is a 'Launch log' section. Further down, there's a 'Next Steps' section with several cards: 'Create billing and free tier usage alerts', 'Connect to your instance', 'Connect an RDS database', 'Create EBS snapshot policy', 'Manage detailed monitoring', 'Create Load Balancer', 'Create AWS budget', and 'Manage CloudWatch alarms'. Each card has a blue 'View details' button.

This screenshot is identical to the one above, showing the same success message, launch log, and next steps section for launching an EC2 instance.

This screenshot shows the 'Launch an instance' wizard. The first step, 'Name and tags', has a 'Name' field set to 'myebs2'. The second step, 'Application and OS Images (Amazon Machine Image)', shows a search bar and a 'Quick Start' section with icons for various AMIs: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, and Debian. It also includes a 'Browse more AMIs' link. The third step, 'Summary', shows a summary of the instance configuration: 1 instance, Software Image (AMI) selected, Virtual server type (instance type) t2.micro, Firewall (security group) selected, and Storage (volumes) selected. Buttons for 'Cancel', 'Launch instance', and 'Preview code' are at the bottom.

EBS, Snapshot, EFS

The screenshot shows the AWS EC2 'Launch an instance' wizard. In the 'Network settings' section, the user has selected 'Auto-assign public IP'. Under 'Firewall (security groups)', the 'Create security group' option is selected. A note states: 'We'll create a new security group called "launch-wizard-6" with the following rules:'

- Allow SSH traffic from Anywhere (0.0.0.0/0)
- Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server
- Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

A warning message in a yellow box says: '⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.'

Summary
Number of instances: 1
Software Image (AMI): Amazon Linux 2023 AMI 2023.6.2...
Virtual server type (instance type): t2.micro
Firewall (security group): New security group
Storage (volumes): 1 volume(s) - 8 GiB

Launch instance | **Preview code**

In the 'Configure storage' section, the user has selected 'gp3' for the volume type and specified 8 GiB. A note says: 'ⓘ Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage'.

Summary
Number of instances: 1
Software Image (AMI): Amazon Linux 2023 AMI 2023.6.2...
Virtual server type (instance type): t2.micro
Firewall (security group): New security group
Storage (volumes): 1 volume(s) - 8 GiB

Launch instance | **Preview code**

EBS, Snapshot, EFS

The screenshot shows the AWS EC2 "Launch an instance" page. At the top, there is a green success message: "Successfully initiated launch of instance (i-0694abc5ba4101c1b)". Below this, there is a "Launch log" section. Under "Next Steps", there are several options:

- Create billing and free tier usage alerts**: To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds. [Create billing alerts](#)
- Connect to your instance**: Once your instance is running, log into it from your local computer. [Connect to instance](#)
- Connect an RDS database**: Configure the connection between an EC2 instance and a database to allow traffic flow between them. [Connect an RDS database](#)
- Create EBS snapshot policy**: Create a policy that automates the creation, retention, and deletion of EBS snapshots. [Create EBS snapshot policy](#)
- Manage detailed monitoring**: Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs with a 1-minute period.
- Create Load Balancer**: Create a application, network gateway or classic Elastic Load Balancer. [Create Load Balancer](#)
- Create AWS budget**: AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.
- Manage CloudWatch alarms**: Create or update Amazon CloudWatch alarms for the instance. [Manage CloudWatch alarms](#)

At the bottom of the page, there is a sidebar for EC2 and a footer with copyright information.

The screenshot shows the AWS EC2 "Instances" page. It lists two instances: "myebs1" (running, t2.micro) and "myebs2" (running, t2.micro). The "Storage" tab is selected for the "myebs1" instance, showing details about the root device and block devices. The sidebar on the left includes sections for Instances, Images, Elastic Block Store, Network & Security, and more.

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The screenshot shows the AWS EC2 Instances page with two running t2.micro instances: myebs1 and myebs2. The details for myebs1 are expanded, showing its attached volumes (vol-0802914a701fb6ee9 and vol-0512e0157d0b4f778) and volume monitoring metrics.

Instances (1/2) Info

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone |
|--------|---------------------|----------------|---------------|--------------|---------------|-------------------|
| myebs1 | i-0afc3f67072f5a7d4 | Running | t2.micro | Initializing | View alarms + | us-east-1a |
| myebs2 | i-0694abc5ba4101c1b | Running | t2.micro | Initializing | View alarms + | us-east-1a |

i-0afc3f67072f5a7d4 (myebs1)

| Volume ID | Device name | Volume size (GiB) | Volume State | Attachment status | Attachment time |
|-----------------------|-------------|-------------------|--------------|-------------------|--------------------|
| vol-0802914a701fb6ee9 | /dev/xvda | 8 | In-use | Attached | 2025/03/18 10:24 C |
| vol-0512e0157d0b4f778 | /dev/sdb | 5 | In-use | Attached | 2025/03/18 10:24 C |

Volume monitoring (1)

Average read lat... | Average write lat... | Read throughput... | Write throughput...

Actions

- Connect
- View details
- Manage instance state
- Instance settings
- Networking
- Security
- Image and templates
- Monitor and troubleshoot

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The screenshot shows the AWS EC2 Instance Connect interface. At the top, there are tabs for "EC2 Instance Connect", "Session Manager", "SSH client", and "EC2 serial console". The "EC2 Instance Connect" tab is selected. Below it, the instance ID "i-0afc3f67072f5a7d4 (myebs1)" is displayed. A "Connection Type" section offers two options: "Connect using EC2 Instance Connect" (selected) and "Public IPv4 address" (selected). The "Public IPv4 address" field contains "54.196.230.234". A note at the bottom states: "Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username." On the right, there are "Cancel" and "Connect" buttons.

```
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

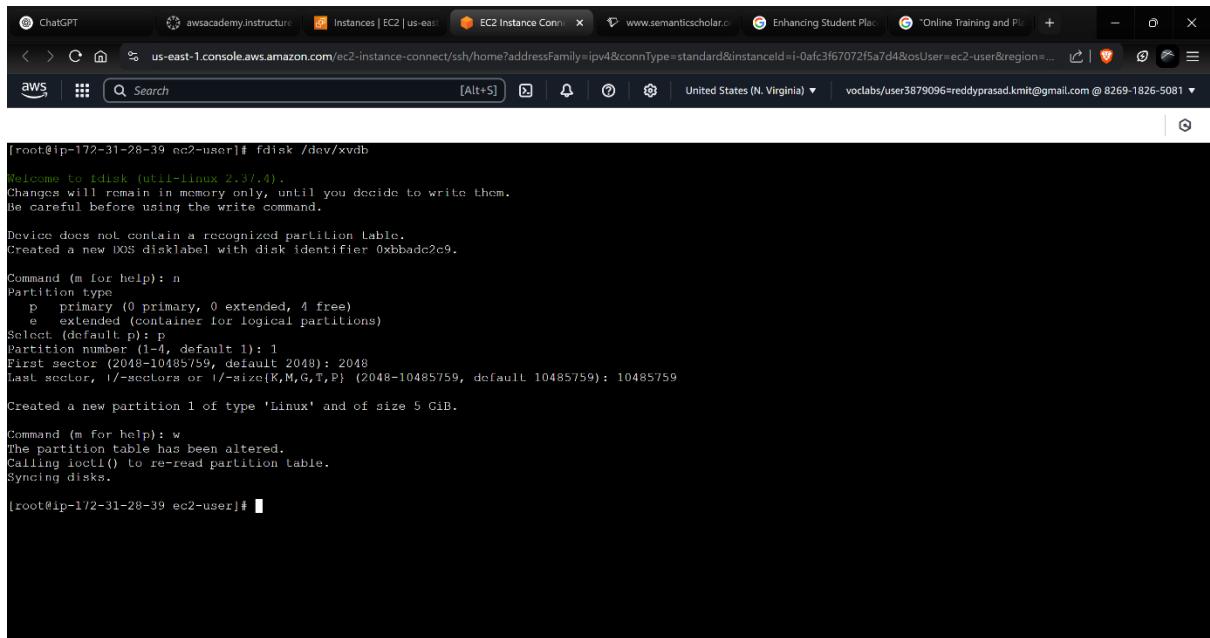
[root@ip-172-31-28-39 ~]# sudo su
[root@ip-172-31-28-39 ec2-user]# lsblk -fs
NAME   FSTYPE FSVER LABEL UUID                                     FSAVAIL FSUSE% MOUNTPOINTS
xvda1  xfs      /          f3225129-f7c3-4da4-90f7-5035c457993d  6.4G    20% /
└─xvda
xvdb
└─xvda2
xvda128 vfat     FAT16    9AA3-6C3B                           0.7M    13% /boot/efi
[root@ip-172-31-28-39 ec2-user]#
```

i-0afc3f67072f5a7d4 (myebs1)

PublicIPs: 54.196.230.234 PrivateIPs: 172.31.28.39



EBS, Snapshot, EFS



```
[root@ip-172-31-28-39 ec2-user]# fdisk /dev/xvdb
Welcome to fdisk (util-linux 2.37.4).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Device does not contain a recognized partition table.
Created a new DOS disklabel with disk identifier 0xbbbadc2c9.

Command (m for help): n
Partition type
   p   primary (0 primary, 0 extended, 4 free)
   e   extended (container for logical partitions)
Select (default p): p
Partition number (1-4, default 1): 1
First sector (2048-10485759, default 2048)
Last sector, +/-sectors or +/-size(K,M,G,T,P) (2048-10485759, default 10485759): 10485759

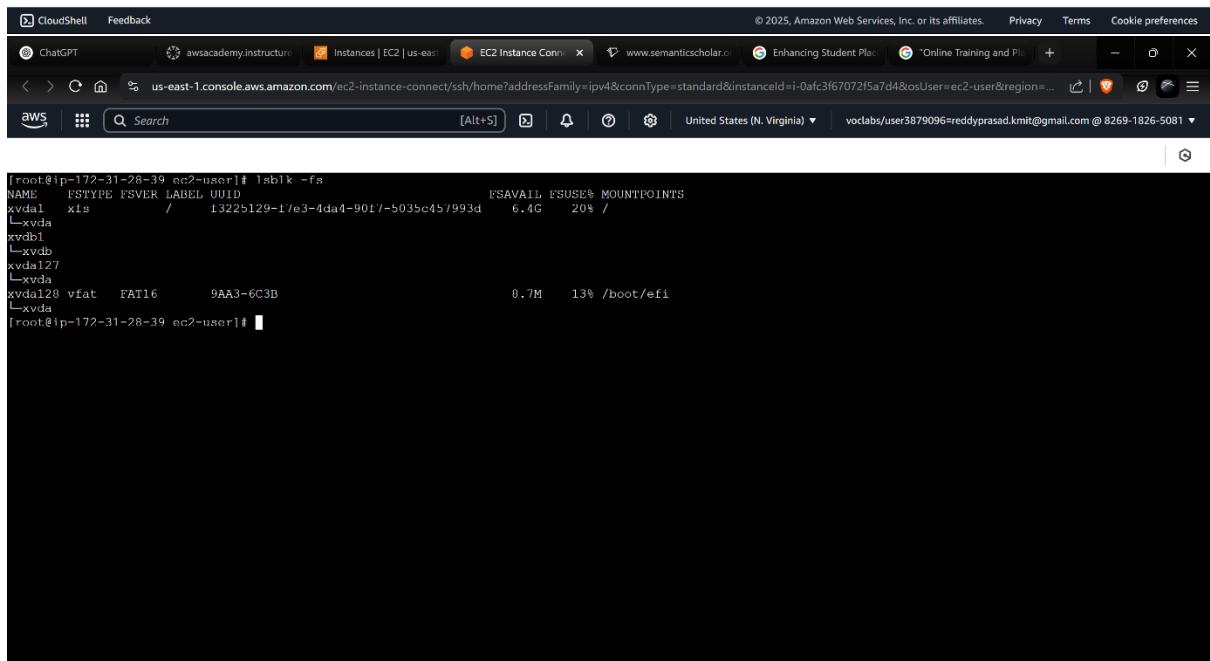
Created a new partition 1 of type 'Linux' and of size 5 GiB.

Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.

[root@ip-172-31-28-39 ec2-user]#
```

i-0afc3f67072f5a7d4 (myebs1)

Public IPs: 54.196.230.234 Private IPs: 172.31.28.39



```
[root@ip-172-31-28-39 ec2-user]# lsblk -fs
NAME   FSTYPE FSVER LABEL UUID                                     FSAVAIL FSUSE% MOUNTPOINTS
xvda   xfs     /      1322b129-1/e3-4da4-9017-b035c45/993d        6.4G    20% /
└─xvda1
xvdb1
└─xvdb
└─xvda7
└─xvda
xvda128 vfat   FAT16   9AA3-6C3B          8.7M    13% /boot/efi
└─xvda

[root@ip-172-31-28-39 ec2-user]#
```

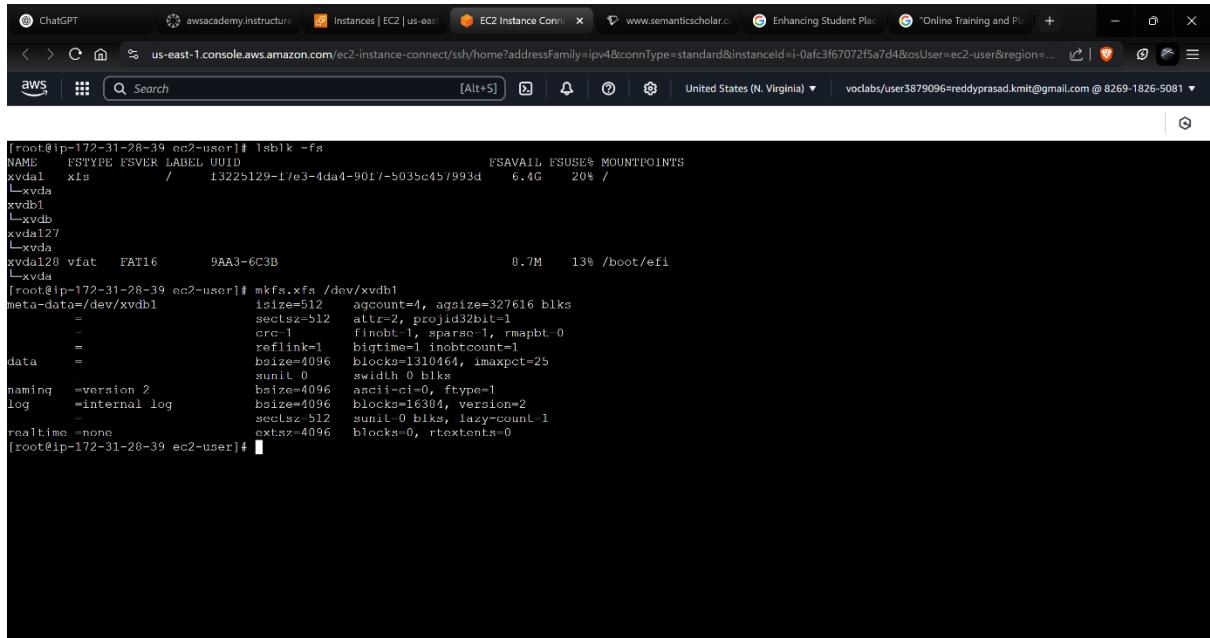
i-0afc3f67072f5a7d4 (myebs1)

Public IPs: 54.196.230.234 Private IPs: 172.31.28.39



```
CloudShell Feedback © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```

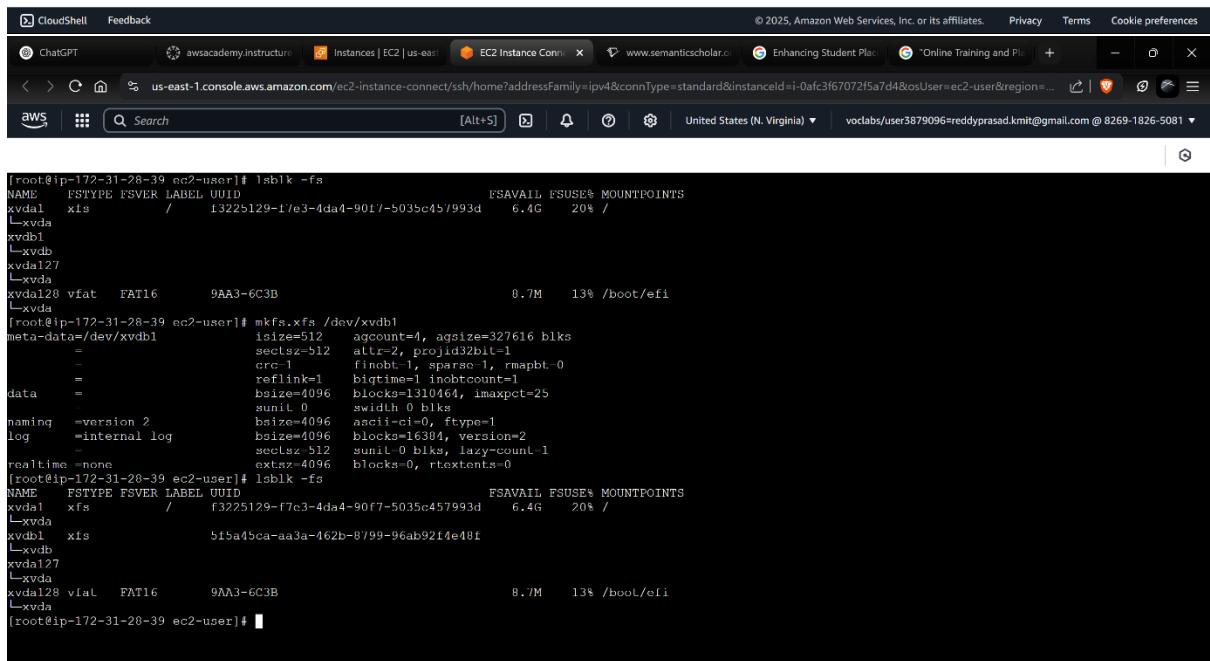
EBS, Snapshot, EFS



```
[root@ip-172-31-28-39 ec2-user]# lsblk -fs
NAME   FSTYPE FSVER LABEL UUID                                     FSAVAIL FSUSE% MOUNTPOINTS
xvda   xfs    /      13225129-1/e3-4da4-90f7-5035c457993d  6.4G   20% /
└─xvda1
xvdb1
└─xvdb
xvda127
└─xvda
xvda128 vfat   FAT16  9AA3-6C3B          8.7M   13% /boot/efi
└─xvda
[root@ip-172-31-28-39 ec2-user]# mkfs.xfs /dev/xvdb1
meta-data=/dev/xvdb1  isize=512  agcount=4, agsize=327616 blks
                     = sectsz=512  attr=2, projid32bit=1
                     = crc=1       finobt=1, sparse=1, rmapbkt=0
data     = bsize=4096  reflink=1  bigtime=1 inobtcount=1
          = sunil=0    swidth=0 blks
naming  =version 2   bsize=4096  ascii-ci=0, ftype=1
log     =internal log bsize=4096  blocks=16304, version=2
          = sectsz=512 sunil=0 blks, lazy-count=1
realtime =none      extsz=4096  blocks=0, rtextents=0
[root@ip-172-31-28-39 ec2-user]# 
```

i-0afc3f67072f5a7d4 (myebs1)

PublicIPs: 54.196.230.234 PrivateIPs: 172.31.28.39



```
[root@ip-172-31-28-39 ec2-user]# lsblk -fs
NAME   FSTYPE FSVER LABEL UUID                                     FSAVAIL FSUSE% MOUNTPOINTS
xvda   xfs    /      13225129-1/e3-4da4-90f7-5035c457993d  6.4G   20% /
└─xvda1
xvdb1
└─xvdb
xvda127
└─xvda
xvda128 vfat   FAT16  9AA3-6C3B          8.7M   13% /boot/efi
└─xvda
[root@ip-172-31-28-39 ec2-user]# mkfs.xfs /dev/xvdb1
meta-data=/dev/xvdb1  isize=512  agcount=4, agsize=327616 blks
                     = sectsz=512  attr=2, projid32bit=1
                     = crc=1       finobt=1, sparse=1, rmapbkt=0
data     = bsize=4096  reflink=1  bigtime=1 inobtcount=1
          = sunil=0    swidth=0 blks
naming  =version 2   bsize=4096  ascii-ci=0, ftype=1
log     =internal log bsize=4096  blocks=16304, version=2
          = sectsz=512 sunil=0 blks, lazy-count=1
realtime =none      extsz=4096  blocks=0, rtextents=0
[root@ip-172-31-28-39 ec2-user]# lsblk -fs
NAME   FSTYPE FSVER LABEL UUID                                     FSAVAIL FSUSE% MOUNTPOINTS
xvda   xfs    /      f3225129-f7e3-4da4-90f7-5035c457993d  6.4G   20% /
└─xvda1
xvdb1
└─xvdb
xvda127
└─xvda
xvda128 vfat   FAT16  9AA3-6C3B          8.7M   13% /boot/efi
└─xvda
[root@ip-172-31-28-39 ec2-user]# 
```

i-0afc3f67072f5a7d4 (myebs1)

PublicIPs: 54.196.230.234 PrivateIPs: 172.31.28.39



```
[root@ip-172-31-28-39 ec2-user]# lsblk -fs
NAME   FSTYPE FSVER LABEL UUID                                     FSAVAIL FSUSE% MOUNTPOINTS
xvda   xfs    /      515a45ca-aa3a-462b-8799-96ab9214e48f  6.4G   20% /
└─xvda1
xvdb1
└─xvdb
xvda127
└─xvda
xvda128 vfat   FAT16  9AA3-6C3B          8.7M   13% /boot/efi
└─xvda
[root@ip-172-31-28-39 ec2-user]# 
```

EBS, Snapshot, EFS

```
[root@ip-172-31-28-39 ec2-user]# cd mnt/prasad
[root@ip-172-31-28-39 prasad]# nano fl.txt
```

i-0afc3f67072f5a7d4 (myebs1)

PublicIPs: 54.196.230.234 PrivateIPs: 172.31.28.39

```
[root@ip-172-31-28-39 ec2-user]# cd mnt/prasad
[root@ip-172-31-28-39 prasad]# nano fl.txt
[root@ip-172-31-28-39 prasad]# cat fl.txt
Hello
[root@ip-172-31-28-39 prasad]#
```

i-0afc3f67072f5a7d4 (myebs1)

PublicIPs: 54.196.230.234 PrivateIPs: 172.31.28.39

```
[root@ip-172-31-28-39 ec2-user]#
```

EBS, Snapshot, EFS

```
[root@ip-172-31-28-39 ~]# cd /mnt/tankbund
[root@ip-172-31-28-39 tankbund]# nano fl.txt
```

i-0afc3f67072f5a7d4 (myebs1)

PublicIPs: 54.196.230.234 PrivateIPs: 172.31.28.39

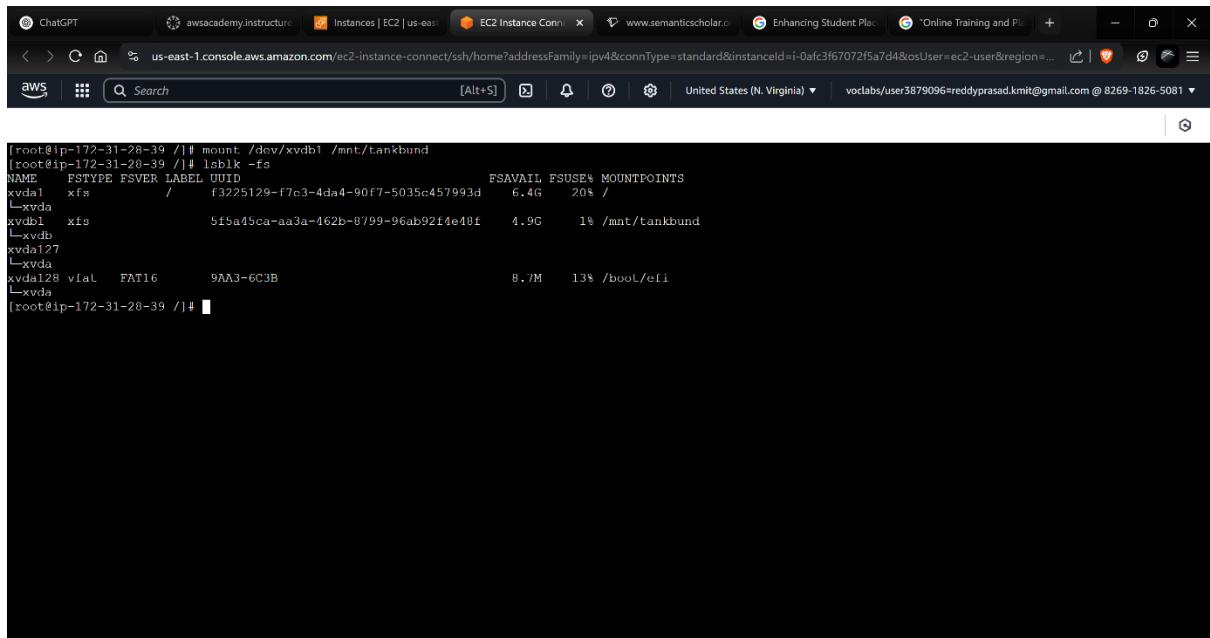
```
[root@ip-172-31-28-39 ~]# cd /mnt/tankbund
[root@ip-172-31-28-39 tankbund]# nano fl.txt
[root@ip-172-31-28-39 tankbund]# cat fl.txt
Hello
[root@ip-172-31-28-39 tankbund]# cd /
[root@ip-172-31-28-39 ~]#
```

i-0afc3f67072f5a7d4 (myebs1)

PublicIPs: 54.196.230.234 PrivateIPs: 172.31.28.39

```
[root@ip-172-31-28-39 ~]#
```

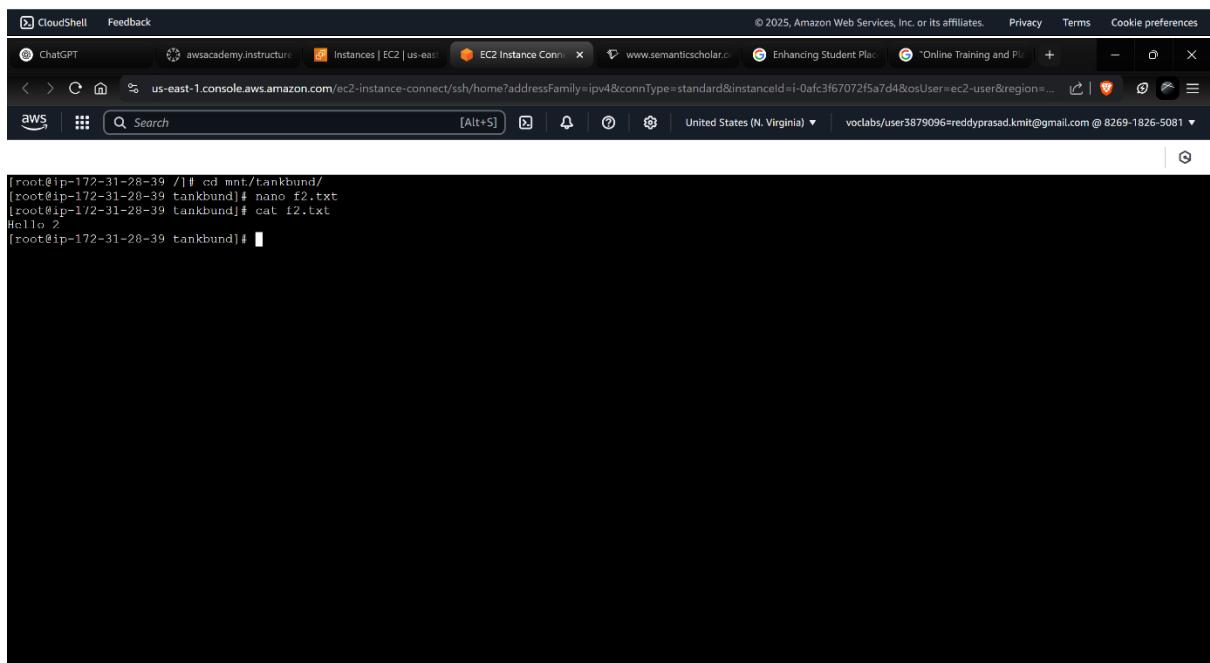
EBS, Snapshot, EFS



```
[root@ip-172-31-28-39 ~]# mount /dev/xvdb1 /mnt/tankbund
[root@ip-172-31-28-39 ~]# lsblk -fs
NAME   FSTYPE FSVER LABEL UUID                                     FSAVAIL FSUSED% MOUNTPOINTS
xvda   xfs      /          f3225129-f7e3-4da4-90f7-5035c457993d    6.4G   20% /
└─xvda
xvdb   xfs      5fb45ca-aa3a-462b-8799-96ab9214e40f    4.9G   1% /mnt/tankbund
└─xvdb
xvda127
└─xvda
xvda128 vfat     9AA3-6C3B
└─xvda
[root@ip-172-31-28-39 ~]#
```

i-0afc3f67072f5a7d4 (myebs1)

Public IPs: 54.196.230.234 Private IPs: 172.31.28.39



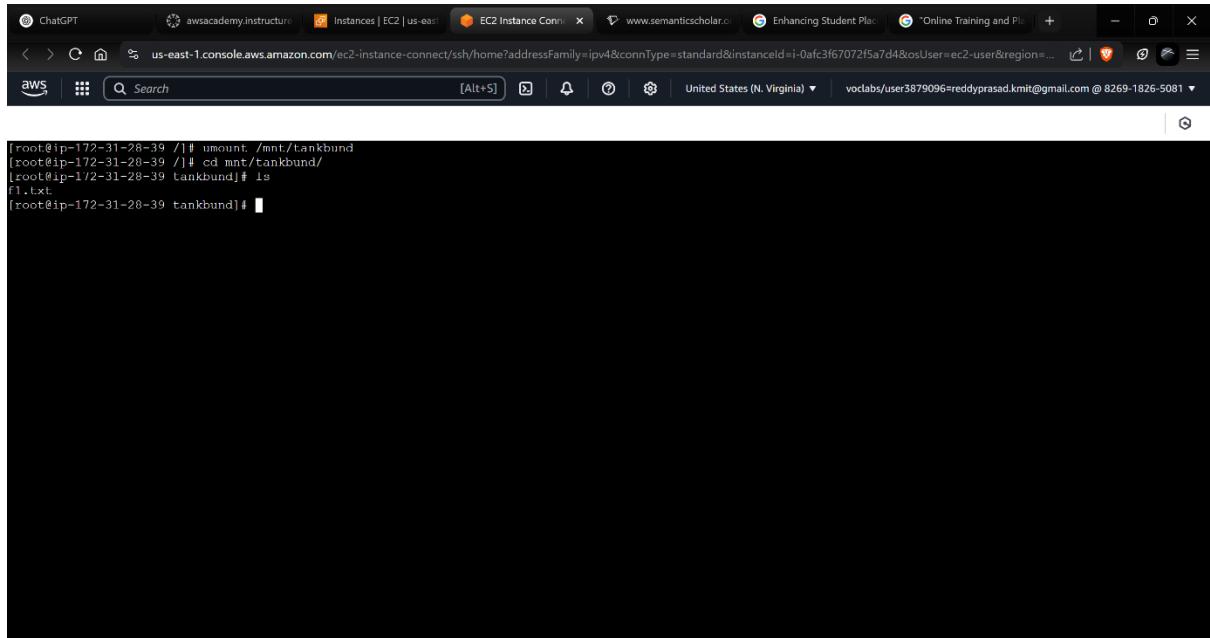
```
[root@ip-172-31-28-39 ~]# cd /mnt/tankbund/
[root@ip-172-31-28-39 tankbund]# nano f2.txt
[root@ip-172-31-28-39 tankbund]# cat f2.txt
Hello 2
[root@ip-172-31-28-39 tankbund]#
```

i-0afc3f67072f5a7d4 (myebs1)

Public IPs: 54.196.230.234 Private IPs: 172.31.28.39



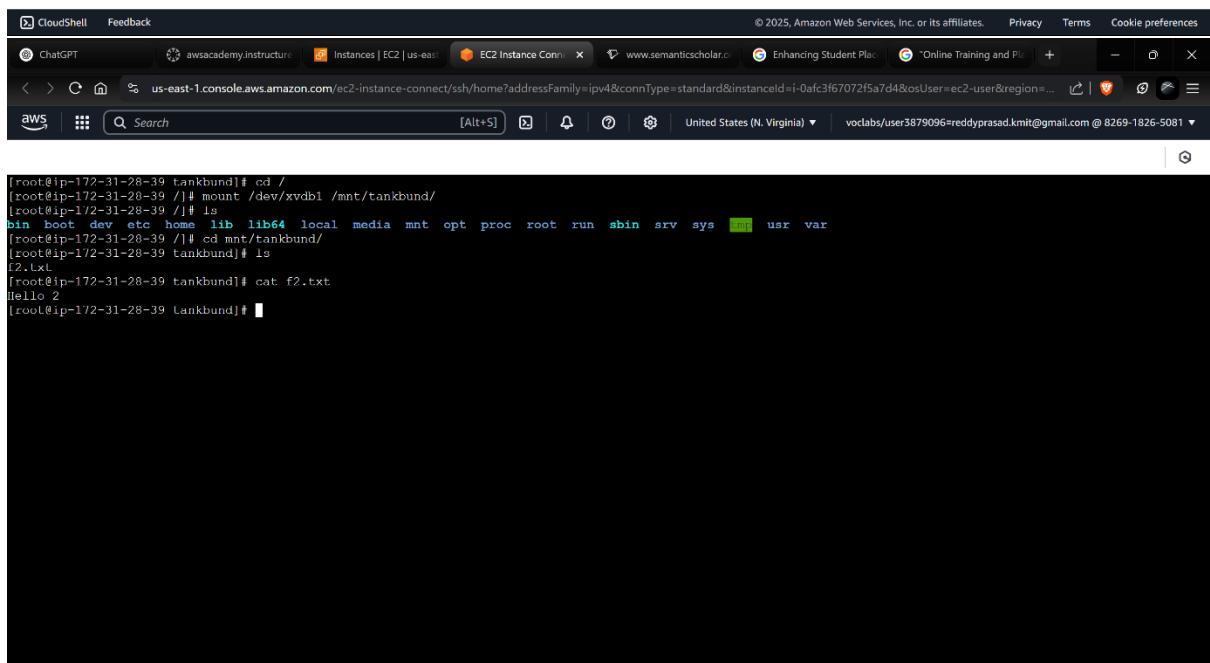
EBS, Snapshot, EFS



```
[root@ip-172-31-28-39 ~]# umount /mnt/tankbund/
[root@ip-172-31-28-39 ~]# cd mnt/tankbund/
[root@ip-172-31-28-39 tankbund]# ls
f1.txt
[root@ip-172-31-28-39 tankbund]#
```

i-0afc3f67072f5a7d4 (myebs1)

PublicIPs: 54.196.230.234 PrivateIPs: 172.31.28.39



```
[root@ip-172-31-28-39 tankbund]# cd /
[root@ip-172-31-28-39 ~]# mount /dev/xvdbl /mnt/tankbund/
[root@ip-172-31-28-39 ~]# ls
bin boot dev etc home lib lib64 local media mnt opt proc root run sbin srv sys tmp usr var
[root@ip-172-31-28-39 ~]# cd mnt/tankbund/
[root@ip-172-31-28-39 tankbund]# ls
f2.txt
[root@ip-172-31-28-39 tankbund]# cat f2.txt
Hello 2
[root@ip-172-31-28-39 tankbund]#
```

i-0afc3f67072f5a7d4 (myebs1)

PublicIPs: 54.196.230.234 PrivateIPs: 172.31.28.39



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The screenshot shows the AWS EC2 Volumes page with four volumes listed. A context menu is open over the third volume, which has a checkmark next to it. The menu options include: Modify volume, Create snapshot, Create snapshot lifecycle policy, Delete volume, Attach volume, Detach volume (which is highlighted with a red box), Force detach volume, Manage auto-enabled I/O, Manage tags, and Fault injection.

| Name | Volume ID | Type | Size | IOPS | Throughput | Snapshot ID | Created |
|-------------------------------------|-----------------------|------|--------|------|------------|-----------------|---------------------|
| - | vol-0802914a701fb6ee9 | gp3 | 8 GiB | 3000 | 125 | snap-0a73fd7... | 2025/03/18 10:24 Gi |
| - | vol-06b8ef1f92ec53ed1 | gp3 | 15 GiB | 3000 | 125 | - | 2025/03/10 12:01 Gi |
| <input checked="" type="checkbox"/> | vol-0512e0157d0b4f778 | gp3 | 5 GiB | 3000 | 125 | - | 2025/03/18 10:24 Gi |
| - | vol-03328cf9db1d88c72 | gp3 | 8 GiB | 3000 | 125 | snap-0a73fd7... | 2025/03/18 10:25 Gi |

The screenshot shows the AWS EC2 Volumes page with the same four volumes. A confirmation dialog box is in the foreground, asking "Detach vol-0512e0157d0b4f778?". It contains the message: "After you detach a volume, you might still be charged for volume storage. If you no longer need the volume, delete it to stop incurring charges." Below the message is a question: "Are you sure that you want to detach volume vol-0512e0157d0b4f778?". There are "Cancel" and "Detach" buttons at the bottom of the dialog.

| Name | Volume ID | Type | Size | IOPS | Throughput | Snapshot ID | Created |
|-------------------------------------|-----------------------|------|--------|------|------------|-----------------|---------------------|
| - | vol-0802914a701fb6ee9 | gp3 | 8 GiB | 3000 | 125 | snap-0a73fd7... | 2025/03/18 10:24 Gi |
| - | vol-06b8ef1f92ec53ed1 | gp3 | 15 GiB | 3000 | 125 | - | 2025/03/10 12:01 Gi |
| <input checked="" type="checkbox"/> | vol-0512e0157d0b4f778 | gp3 | 5 GiB | 3000 | 125 | - | 2025/03/18 10:24 Gi |
| - | vol-03328cf9db1d88c72 | gp3 | 8 GiB | 3000 | 125 | snap-0a73fd7... | 2025/03/18 10:25 Gi |

EBS, Snapshot, EFS

The screenshot shows the AWS CloudWatch Metrics console. At the top, there's a search bar and a navigation bar with tabs like 'Metrics' and 'Logs'. Below the search bar, a message says 'Successfully attached volume.' A table titled 'Metrics Insights' lists four items, each with a preview icon, name, metric name, unit, and value. The first item is 'vol-0802914a701fb6ee9' with a value of '125'. The second item is 'vol-06b8ef1f92ec53ed1' with a value of '125'. The third item is 'vol-0512e0157d0b4f778' with a value of '125'. The fourth item is 'vol-03328cf9db1d88c72' with a value of '125'. The table has columns for Preview, Name, Metric name, Unit, and Value.

The screenshot shows the AWS CloudWatch Metrics console. At the top, there's a search bar and a navigation bar with tabs like 'Metrics' and 'Logs'. Below the search bar, a message says 'Successfully attached volume.' A table titled 'Metrics Insights' lists four items, each with a preview icon, name, metric name, unit, and value. The first item is 'vol-0802914a701fb6ee9' with a value of '125'. The second item is 'vol-06b8ef1f92ec53ed1' with a value of '125'. The third item is 'vol-0512e0157d0b4f778' with a value of '125'. The fourth item is 'vol-03328cf9db1d88c72' with a value of '125'. The table has columns for Preview, Name, Metric name, Unit, and Value.

EBS, Snapshot, EFS

The screenshot shows the 'Attach volume' step in the AWS EC2 console. The volume ID is vol-0512e0157d0b4f778, located in the us-east-1 availability zone. The instance selected is i-0694abc5ba4101c1b (myebs2) which is running. The device name chosen is /dev/sdb. A note at the bottom indicates that newer Linux kernels may rename devices to /dev/xvdf through /dev/xvdः internally. Buttons for 'Cancel' and 'Attach volume' are visible.

The screenshot shows the 'Volumes' page in the AWS EC2 console. It lists four volumes attached to the instance i-0694abc5ba4101c1b. The volumes are: vol-0802914a701fb6ee9 (gp3, 8 GiB, 3000 IOPS, throughput 125, created 2025/03/18 10:24 GiB), vol-06b8ef1f92ec53ed1 (gp3, 15 GiB, 3000 IOPS, throughput 125, created 2025/03/10 12:01 GiB), vol-0512e0157d0b4f778 (gp3, 5 GiB, 3000 IOPS, throughput 125, created 2025/03/18 10:24 GiB), and vol-03328cf9db1d88c72 (gp3, 8 GiB, 3000 IOPS, throughput 125, created 2025/03/18 10:25 GiB). Below the table, a 'Snapshot summary' section shows 0/4 volumes recently backed up. A note indicates a failure to fetch the default policy status for EBS Snapshots.

EBS, Snapshot, EFS

The screenshot shows the AWS EC2 Instances page. On the left, a sidebar navigation includes EC2, Dashboard, EC2 Global View, Events, Instances (with sub-options like Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), and Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces). The main content area displays 'Instances (1/2) Info' with two entries:

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone |
|--------|---------------------|----------------|---------------|-------------------|---------------|-------------------|
| myebs1 | i-0afc3f67072f5a7d4 | Running | t2.micro | 2/2 checks passed | View alarms + | us-east-1a |
| myebs2 | i-0694abc5ba4101c1b | Running | t2.micro | 2/2 checks passed | View alarms + | us-east-1a |

Below this, the details for instance i-0694abc5ba4101c1b (myebs2) are expanded. The 'Details' tab is selected, showing:

- Instance summary:** Instance ID: i-0694abc5ba4101c1b, Public IPv4 address: 34.235.136.91, Private IP4 address: 172.31.18.66, Instance state: Running.
- Networking:** Hostname type: IP name: ip-172-31-18-66.ec2.internal, Private IP DNS name (IPv4 only): ip-172-31-18-66.ec2.internal, Instance type: t2.micro.
- Storage:** Elastic IP addresses: ec2-34-233-136-91.compute-1.amazonaws.com.

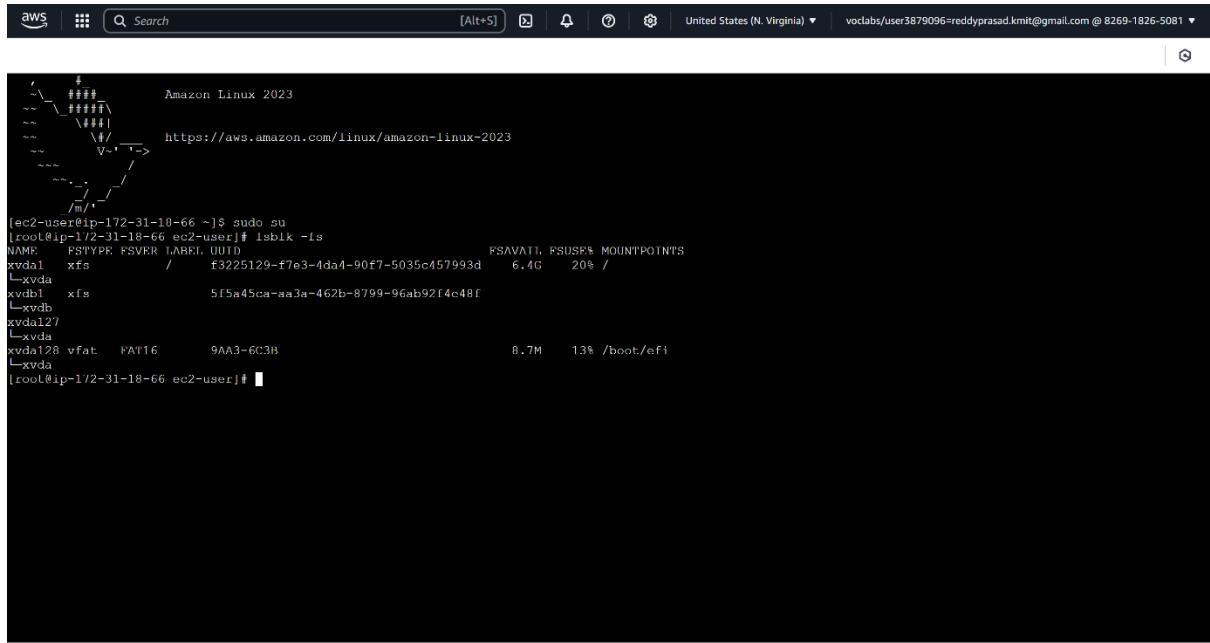
At the bottom of the page, there are links for CloudShell and Feedback, and standard footer links for Privacy, Terms, and Cookie preferences.

The screenshot shows the 'Connect to instance' dialog for instance i-0694abc5ba4101c1b (myebs2). The 'EC2 Instance Connect' tab is selected. The 'Connection Type' section shows two options:

- Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 address.
- Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

The 'Public IPv4 address' field is set to 34.235.136.91. Below this, there are fields for 'Username' (set to ec2-user) and a note: "Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username." At the bottom right are 'Cancel' and 'Connect' buttons.

EBS, Snapshot, EFS

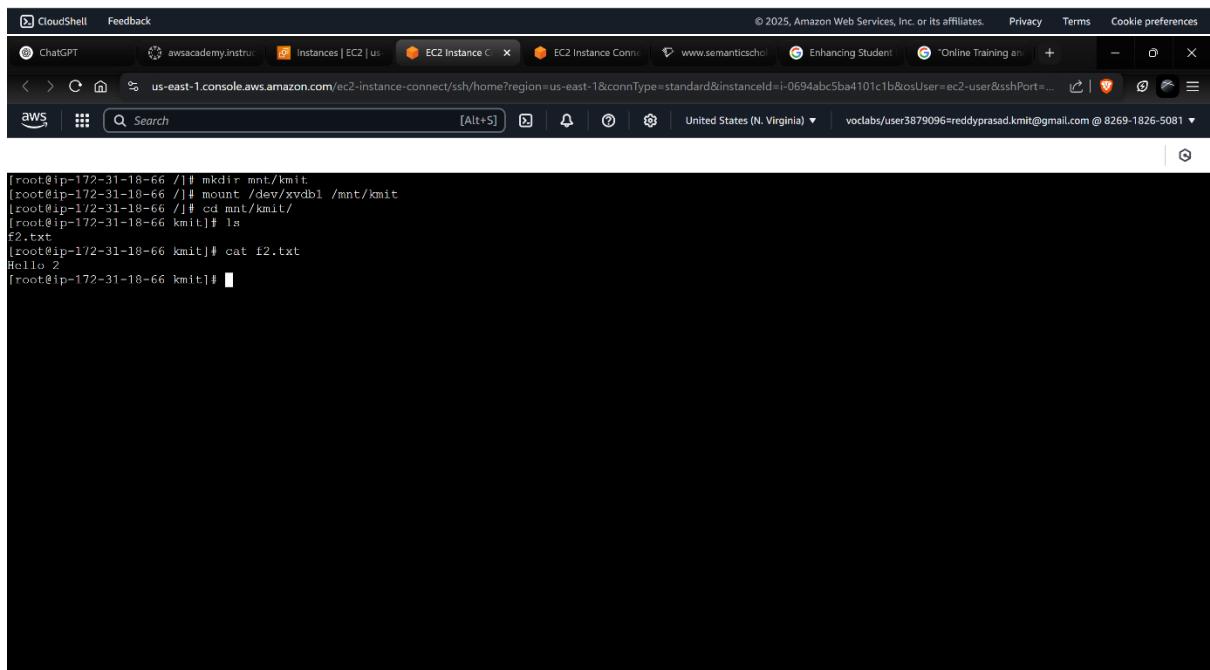


```
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-172-31-10-66 ~]$ sudo su
[ec2-user@ip-172-31-18-66 ec2-user]# lsblk -is
NAME   FSTYPE FSVER LABEL UUID                                     FSUSE% MOUNTPOINTS
xvda   xfs      /          f3225129-f7e3-4da4-90f7-5035c457993d    6.4G   20% /
└─xvda
xvdbl  xfs      5f5a45ca-aa3a-462b-8799-96ab92f4c48f
└─xvdbl
xvda127
└─xvda
xvda128 vfat    FAT16    9AA3-6C3B           8.7M   13% /boot/efi
└─xvda
[ec2-user@ip-172-31-18-66 ec2-user]#
```

i-0694abc5ba4101c1b (myebs2)

Public IPs: 34.233.136.91 Private IPs: 172.31.18.66



```
[root@ip-172-31-18-66 ~]# mkdir mnt/kmit
[root@ip-172-31-18-66 ~]# mount /dev/xvdbl /mnt/kmit/
[root@ip-172-31-18-66 ~]# cd mnt/kmit/
[root@ip-172-31-18-66 kmit]# ls
f2.txt
[root@ip-172-31-18-66 kmit]# cat f2.txt
Hello 2
[root@ip-172-31-18-66 kmit]#
```

i-0694abc5ba4101c1b (myebs2)

Public IPs: 34.233.136.91 Private IPs: 172.31.18.66



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EBS, Snapshot, EFS

The screenshot shows the AWS CloudFront console with the following details:

- CloudFront Distributions**: Shows 1 distribution.
- CloudFront Origin Groups**: Shows 1 origin group.
- CloudFront Cache Behaviors**: Shows 1 cache behavior.
- CloudFront Policies**: Shows 1 policy.
- CloudFront Lambda Functions**: Shows 1 function.
- CloudFront Metrics**: Shows 1 metric.
- CloudFront Origins**: Shows 1 origin.
- CloudFront Realtime Log Insights**: Shows 1 log group.

At the bottom, there are buttons for **Create Distribution**, **CloudFront Metrics**, and **CloudFront Realtime Log Insights**.

EBS, Snapshot, EFS

The screenshot shows the AWS EC2 'Launch an instance' wizard. In the 'Network settings' section, a subnet named 'vpc-055ab3abeb60e07a' is selected. Under 'Firewall (security groups)', a new security group named 'launch-wizard-7' is being created. It allows SSH, HTTPS, and HTTP traffic from anywhere. A warning message states: 'Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.'

Summary

- Number of instances: 1
- Software Image (AMI): Amazon Linux 2023 AMI 2023.6.2... (ami-0805b3a93ed654d19)
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 8 GiB

Launch instance

Success
Successfully initiated launch of instance (i-0f5dbddceab28dfad)

Next Steps

- Create billing and free tier usage alerts
- Connect to your instance
- Connect an RDS database
- Create EBS snapshot policy
- Manage detailed monitoring
- Create Load Balancer
- Create AWS budget
- Manage CloudWatch alarms

EBS, Snapshot, EFS

The screenshot shows the AWS CloudWatch Metrics interface. At the top, there's a search bar and a navigation bar with tabs like 'Metrics' and 'Logs'. Below the search bar, there are two main sections: 'Metrics' and 'Logs'. Under 'Metrics', there are three cards: 'Lambda Metrics' (with a pie chart), 'Lambda Metrics (CloudWatch Metrics Metrics Insights)' (with a line graph), and 'Lambda Metrics (CloudWatch Metrics Metrics Insights)' (with a line graph). Each card has a 'View details' button. On the right side, there's a sidebar with 'Metrics' and 'Logs' sections, and a 'Metrics Insights' section.

Volumes (1/2) Info

Last updated less than a minute ago

Actions ▾ Create volume

Modify volume
Create snapshot
Create snapshot lifecycle policy
Delete volume
Attach volume
Detach volume
Force detach volume
Manage auto-enabled I/O
Manage tags
Fault injection

Volume ID: vol-0512e0157d0b4f778

Details Status checks Monitoring Tags

| Volume ID | Size | Type | Status check |
|--|-------------------|---|----------------------|
| vol-0512e0157d0b4f778 | 5 GiB | gp3 | Okay |
| AWS Compute Optimizer finding | Volume state | IOPS | Throughput |
| This user is not authorized to call AWS Compute Optimizer. Retry | Available | 3000 | 125 |
| Fast snapshot restored | Availability Zone | Created | Multi-Attach enabled |
| No | us-east-1a | Tue Mar 18 2025 10:24:08 GMT+0530 (India Standard Time) | No |
| Attached resources | Outposts ARN | Managed | Operator |
| - | - | false | - |

CloudShell Feedback

Create snapshot Info

Create a point-in-time snapshot to back up the data on an Amazon EBS volume to Amazon S3.

Source volume

Volume ID
vol-0512e0157d0b4f778

Availability Zone
us-east-1a

Snapshot details

Description
Add a description for your snapshot.
snapshot

Encryption info
Not encrypted

Tags Info

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add tag

You can add 50 more tags.

Cancel Create snapshot

CloudShell Feedback

EBS, Snapshot, EFS

Screenshot of the AWS CloudWatch Metrics console showing a successful snapshot creation message:

Successfully created snapshot snap-02363777d118b73fc from volume vol-0512e0157d0b4f778.
If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Volumes (2) Info

| Name | Type | Size | IOPS | Throughput | Snapshot ID | Created | Availability Zone |
|-----------------------|------|-------|------|------------|-----------------|---------------------------|-------------------|
| vol-0e6885a9d11c87de0 | gp3 | 8 GiB | 3000 | 125 | snap-0a73fd7... | 2025/03/18 10:57 GMT+5... | us-east-1d |
| vol-0512e0157d0b4f778 | gp3 | 5 GiB | 3000 | 125 | - | 2025/03/18 10:24 GMT+5... | us-east-1a |

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes
0 / 2

Data Lifecycle Manager default policy for EBS Snapshots status
Failed to fetch default policy status

Snapshots (1/1) Info

| Name | Snapshot ID | Full snapshot size | Volume size | Description |
|------|------------------------|--------------------|-------------|-------------|
| - | snap-02363777d118b73fc | 67 MiB | 5 GiB | snapshot1 |

Actions menu for the snapshot:

- Create volume from snapshot
- Create image from snapshot
- Copy snapshot** (highlighted)
- Launch copy duration calculator
- Delete snapshot
- Manage tags
- Snapshot settings
- Archiving

Snapshot ID: snap-02363777d118b73fc

Details | Snapshot settings | Storage tier | Tags

| | | | |
|---------------------------------------|--|--------------------|------------------------------|
| Snapshot ID snap-02363777d118b73fc | Full snapshot size 67 MiB | Progress 100% | Snapshot status Completed |
| Owner 826918265081 | Started Tue Mar 18 2025 10:59:07 GMT+0530 (India Standard Time) | Product codes - | Fast snapshot restore - |
| Description snapshot1 | | | |
| Source volume | | | |
| Volume ID vol-0512e0157d0b4f778 | Volume size 5 GiB | | |

EBS, Snapshot, EFS

The screenshot shows the AWS CloudShell interface with the following details:

Snapshots (2) Info

Actions | **Create snapshot**

| Owned by me | Name | Snapshot ID | Full snapshot size | Volume size | Description | Storage tier | Snapshot status | Started |
|--------------------------|------|------------------------|--------------------|-------------|---------------------------------|--------------|-----------------|---------------------|
| <input type="checkbox"/> | - | snap-02363777d118b73fc | 67 MiB | 5 GiB | snapshot1 | Standard | Completed | 2025/03/18 10:59 GM |
| <input type="checkbox"/> | - | snap-0840377c32f4082ac | - | 5 GiB | [Copied snap-02363777d118b73fc] | Standard | Pending | 2025/03/18 11:01 GM |

Select a snapshot above.

EBS, Snapshot, EFS

Screenshot of the AWS CloudShell interface showing the creation of an EBS snapshot copy.

Copy snapshot Info

Copy a snapshot from one AWS Region to another, or within the same Region.

Source snapshot
The original snapshot that is to be copied.

| | |
|--|----------------------------|
| Snapshot ID snap-02363777d118b73fc | Region us-east-1 |
|--|----------------------------|

Snapshot copy details

Description
A description for the snapshot copy.
[Copied snap-02363777d118b73fc from us-east-1] snapshot1
255 characters maximum.

Destination Region
The Region in which to create the snapshot copy.
us-west-2

Time-based copy - new Info
Specify a completion duration for the snapshot copy operation. Additional costs apply. [Learn more](#)

Enable time-based copy

Encryption Info
Use Amazon EBS encryption as an encryption solution for your EBS resources.
 Encrypt this snapshot

CloudShell Feedback

Successfully created snapshot copy snap-039ccbf00b9231f4 in us-west-2 []

Snapshots (1) Info

| Owned by me | Name | Snapshot ID | Full snapshot size | Volume size | Description | Storage tier | Snapshot status | Started |
|-------------|------|------------------------|--------------------|-------------|-------------|--------------|-----------------|---------------------|
| | - | snap-02363777d118b73fc | 67 MiB | 5 GiB | snapshot1 | Standard | Completed | 2025/03/18 10:59 GM |

Select a snapshot above.

EBS, Snapshot, EFS

Successfully created snapshot copy snap-039ccbfa00b9231f4 in us-west-2.

Snapshots (1) Info

Owned by me Search

| Name | Snapshot ID | Full snapshot size | Volume size | Description | Storage tier | Snapshot status | Started |
|------|------------------------|--------------------|-------------|-----------------------------|--------------|-----------------|---------------------|
| - | snap-02363777d118b73fc | 67 MiB | 5 GiB | [Copied snap-02363777d1...] | Standard | Completed | 2025/03/18 10:59 GM |

Select a snapshot above.

Last updated less than a minute ago

Recycle Bin Actions Create snapshot

United States (Oregon)

| Region | Region ID |
|---------------|----------------|
| N. Virginia | us-east-1 |
| Ohio | us-east-2 |
| N. California | us-west-1 |
| Oregon | us-west-2 |
| Mumbai | ap-south-1 |
| Osaka | ap-northeast-3 |
| Seoul | ap-northeast-2 |
| Singapore | ap-southeast-1 |
| Sydney | ap-southeast-2 |
| Tokyo | ap-northeast-1 |
| Central | ca-central-1 |
| Frankfurt | eu-central-1 |
| Ireland | eu-west-1 |
| London | eu-west-2 |
| Paris | eu-west-3 |
| Stockholm | eu-north-1 |
| São Paulo | sa-east-1 |

Manage Regions Manage Local Zones

https://us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Snapshots:

Successfully created snapshot copy snap-039ccbfa00b9231f4 in us-west-2.

Snapshots (1) Info

Owned by me Search

| Name | Snapshot ID | Full snapshot size | Volume size | Description | Storage tier | Snapshot status | Started |
|------|------------------------|--------------------|-------------|-----------------------------|--------------|-----------------|---------------------|
| - | snap-02363777d118b73fc | 67 MiB | 5 GiB | [Copied snap-02363777d1...] | Standard | Completed | 2025/03/18 11:03 GM |

Select a snapshot above.

Last updated less than a minute ago

Recycle Bin Actions Create snapshot

United States (Oregon)

| Region | Region ID |
|---------------|----------------|
| N. Virginia | us-east-1 |
| Ohio | us-east-2 |
| N. California | us-west-1 |
| Oregon | us-west-2 |
| Mumbai | ap-south-1 |
| Osaka | ap-northeast-3 |
| Seoul | ap-northeast-2 |
| Singapore | ap-southeast-1 |
| Sydney | ap-southeast-2 |
| Tokyo | ap-northeast-1 |
| Central | ca-central-1 |
| Frankfurt | eu-central-1 |
| Ireland | eu-west-1 |
| London | eu-west-2 |
| Paris | eu-west-3 |
| Stockholm | eu-north-1 |
| São Paulo | sa-east-1 |

Manage Regions Manage Local Zones

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EBS, Snapshot, EFS

The screenshot shows the AWS Cloud Console interface for managing EBS snapshots. At the top, the browser address bar displays the URL: `us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Schemas`. The main content area shows a table of snapshots, with one row selected:

| Name | Snapshot ID | Full snapshot size | Volume size | Description |
|------|--|--------------------|-------------|--|
| - | snap-039ccbfa00b9231f4 | 67 MiB | 5 GiB | [Copied snap-02363777d118b75fc from us-east-1] snapshot1 |

A context menu is open over the selected snapshot, showing options like "Create volume from snapshot", "Copy snapshot", and "Delete snapshot". Below the table, a detailed view for the selected snapshot is shown:

Snapshot ID: snap-039ccbfa00b9231f4

Details | **Snapshot settings** | **Storage tier** | **Tags**

| | | | |
|--|---|---------------------------|-------------------------------------|
| Snapshot ID snap-039ccbfa00b9231f4 | Full snapshot size 67 MiB | Progress 100% | Snapshot status Completed |
| Owner 826918265081 | Started Tue Mar 18 2025 11:03:02 GMT+0530 (India Standard Time) | Product codes - | Fast snapshot restore - |
| Description [Copied snap-02363777d118b75fc from us-east-1] snapshot1 | | | |
| Source volume | | | |
| Volume ID CloudShell | Volume size Feedback | | |

The bottom section shows the "Create volume" wizard for the selected snapshot:

Create volume Info

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Volume settings

Snapshot ID: [snap-039ccbfa00b9231f4](#)

Volume type: [General Purpose SSD \(gp3\)](#)

Size (GiB): Min: 1 GiB, Max: 16384 GiB.

IOPS: Min: 3000 IOPS, Max: 16000 IOPS.

Throughput (MiB/s): Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

Availability Zone: [us-west-2a](#)

Fast snapshot restore: Not enabled for selected snapshot

Encryption

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EBS, Snapshot, EFS

Snapshots (1) Info

Successfully created volume vol-0a6080624a928f82e.

| Name | Snapshot ID | Full snapshot size | Volume size | Description | Storage tier | Snapshot status | Started |
|------|-----------------------|--------------------|-------------|-----------------------------|--------------|-----------------|---------------------|
| - | snap-039ccbf00b9231f4 | 67 MiB | 5 GiB | [Copied snap-02363777d1...] | Standard | Completed | 2025/03/18 11:03 GM |

Select a snapshot above.

Volumes (1) Info

| Name | Volume ID | Type | Size | IOPS | Throughput | Snapshot ID | Created | Availability Zone |
|------|-----------------------|------|-------|------|------------|-----------------|---------------------------|-------------------|
| - | vol-0a6080624a928f82e | gp3 | 5 GiB | 3000 | 125 | snap-039ccbf... | 2025/03/18 11:04 GMT+5... | us-west-2a |

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes
0 / 1

Last updated on Tue, Mar 18, 2025, 11:04:33 AM (GMT+05:30)

Data Lifecycle Manager default policy for EBS Snapshots status
Failed to fetch default policy status

EBS, Snapshot, EFS

The screenshot shows the AWS CloudWatch Metrics console. At the top, there's a search bar and a navigation bar with tabs like 'Metrics' and 'Logs'. Below the search bar, there's a section titled 'Metrics Insights' with a sub-section 'Metrics Insights for Metrics'. It displays a table with columns: Metric Name, Metric Type, and Last Value. There are two rows of data: 'AWS Lambda Metrics' and 'AWS Lambda Metrics'. Each row has a 'View details' button.

The screenshot shows the AWS CloudWatch Metrics console. At the top, there's a search bar and a navigation bar with tabs like 'Metrics' and 'Logs'. Below the search bar, there's a section titled 'Metrics Insights' with a sub-section 'Metrics Insights for Metrics'. It displays a table with columns: Metric Name, Metric Type, and Last Value. There are two rows of data: 'AWS Lambda Metrics' and 'AWS Lambda Metrics'. Each row has a 'View details' button.

EBS, Snapshot, EFS

The screenshot shows the 'Attach volume' step in the AWS EC2 console. The 'Basic details' section includes:

- Volume ID:** vol-0ac3f449cdd74ec34
- Availability Zone:** us-west-2b
- Instance:** i-09553f715293d06ef (snapshot) (running)
- Device name:** /dev/sdb

A note at the bottom left says: "Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdः internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp."

At the bottom right are 'Cancel' and 'Attach volume' buttons.

The screenshot shows the 'Instances' page in the AWS EC2 console. It lists one instance named 'snapshot' (i-09553f715293d06ef), which is running and has a t2.micro type. The instance is in the us-west-2b availability zone with a Public IPv4 DNS of ec2-35-95-22-236.us-west-2.amazonaws.com. The 'Actions' dropdown menu is open.

Below the instances table, the 'i-09553f715293d06ef (snapshot)' instance details are shown. The 'Block devices' section displays two volumes:

| Volume ID | Device name | Volume size (GiB) | Volume State | Attachment status | Attachment time | Encrypted | KMS |
|-----------------------|-------------|-------------------|--------------|-------------------|---------------------------|-----------|-----|
| vol-07560bf57c7de1923 | /dev/xvda | 8 | In-use | Attached | 2025/03/18 11:06 GMT+5:30 | No | - |
| vol-0ac3f449cdd74ec34 | /dev/sdb | 5 | In-use | Attached | 2025/03/18 11:15 GMT+5:30 | No | - |

The 'Volume monitoring' section shows a graph with the following data:

| Time | Volume | Value |
|----------|-----------------------|-------|
| 00:00:00 | vol-07560bf57c7de1923 | 0.0 |
| 00:00:00 | vol-0ac3f449cdd74ec34 | 0.0 |
| 00:00:00 | vol-09553f715293d06ef | 0.0 |

EBS, Snapshot, EFS

The screenshot shows the AWS CloudShell interface with the 'Connect to instance' dialog open. The instance ID is `i-09553f715293d06ef (snapshot)`. The 'Connection Type' section shows 'Public IPv4 address' selected, with the IP `35.95.22.236`. The 'Username' field contains `ec2-user`. A note at the bottom states: 'Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.' There are 'Cancel' and 'Connect' buttons at the bottom right.

The screenshot shows the AWS CloudShell interface with a terminal session running. The session starts with a file tree for Amazon Linux 2023, followed by the command `lsblk -fo NAME FSTYPE FSVER LABEL UUID FSAVAIL FSUSE% MOUNTPOINTS` which lists disk partitions. Then, the command `df -h` is run, showing disk usage. Finally, the command `ls /boot/efi` is run, showing the contents of the /boot/efi directory. The session ends with the prompt `[root@ip-172-31-31-202 ec2-user]#`.

```
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[root@ip-172-31-31-202 ec2-user]# lsblk -fo NAME FSTYPE FSVER LABEL UUID FSAVAIL FSUSE% MOUNTPOINTS
xvda1  xfs      /   f3225129-f7c3-4da4-90f7-5035c457993d  6.4G   20% /
└─xvda2  xfs      515a45ca-aa3a-462b-8799-96ab9214e40f
xvda127
└─xvda128  vfat    9AA3-6C3B          8.7M   13% /boot/efi
[root@ip-172-31-31-202 ec2-user]#
```

`i-09553f715293d06ef (snapshot)`

PublicIPs: 35.95.22.236 PrivateIPs: 172.31.31.202



EBS, Snapshot, EFS

```
[root@ip-172-31-31-202 ~]# mkdir mnt/tankbund
[root@ip-172-31-31-202 ~]# mount /dev/xvdb1 /mnt/tankbund/
[root@ip-172-31-31-202 ~]# lsblk -ls
NAME   FSTYPE FSVER LABEL UUID                                     FSAVAIL FSUSED MOUNTPOINTS
xvda1  xfs    /          f3225129-f7e3-4da4-90f7-5035c457993d  6.4G   20% /
xvdb1  xfs    5.15a45ca-aa3a-462b-8799-96ab9214c48f  4.9G   1% /mnt/tankbund
xvda127
xvda2
xvda128 vfat   FAT16   9AA3-6C3B           8.7M   13% /boot/efi
xvda1
[root@ip-172-31-31-202 ~]#
```

i-09553f715293d06ef (snapshot)

Public IPs: 35.95.22.236 Private IPs: 172.31.31.202

```
[root@ip-172-31-31-202 ~]# cd mnt/tankbund
[root@ip-172-31-31-202 tankbund]# ls
f2.txt
[root@ip-172-31-31-202 tankbund]# cat f2.txt
Hello 2
[root@ip-172-31-31-202 tankbund]#
```

i-09553f715293d06ef (snapshot)

Public IPs: 35.95.22.236 Private IPs: 172.31.31.202



EBS, Snapshot, EFS

The screenshot shows the 'Launch an instance' wizard on the AWS EC2 console. In the 'Name and tags' step, a single tag named 'efs1' is added. The 'Application and OS Images (Amazon Machine Image)' step follows, displaying a catalog of AMIs including Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, and Debian. An 'Amazon Machine Image (AMI)' details section for 'Amazon Linux 2023 AMI' is shown, noting it's free tier eligible. The 'Network settings' step is then displayed, where a new security group named 'launch-wizard-8' is being created with three rules: 'Allow SSH traffic from Anywhere', 'Allow HTTPS traffic from the internet', and 'Allow HTTP traffic from the internet'. The final summary step shows one instance being launched with the specified configuration.

Name and tags Info

Name
efs1

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Recent **Quick Start**

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux Debian Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI
Free tier eligible

Virtualization: hvm ENA enabled: true Root device type: ebs

Network settings Info

Network Info
vpc-055ab3babeb60e07a

Subnet Info
No preference (Default subnet in any availability zone)

Auto-assign public IP Info
Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

We'll create a new security group called 'launch-wizard-8' with the following rules:

Allow SSH traffic from Anywhere 0.0.0.0/0

Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2... read more
ami-0805b3a93ed654d19

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

EBS, Snapshot, EFS

The screenshot shows the AWS EC2 "Launch an instance" wizard. It consists of several tabs: "Verified provider", "Instance type", "Key pair (login)", "Network settings", and "Summary".

- Instance type:** t2.micro (Free tier eligible). Options include "All generations" and "Compare instance types".
Additional costs apply for AMIs with pre-installed software.
- Key pair (login):** efs (Key pair name - required). Option to "Create new key pair".
- Network settings:** VPC - required (vpc-055ab3babeb60e07a, default subnet 172.31.0.0/16). Options include "Create new subnet" and "Auto-assign public IP".
Additional charges apply when outside of free tier allowance.
Firewall (security groups) - Info: A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Options: Create security group (selected), Select existing security group.
Security group name - required: efs1-efs2
Description - required: launch-wizard-8 created 2025-03-18T05:52:15.773Z
- Summary:** Number of instances: 1. Software Image (AMI): Amazon Linux 2023 AMI 2023.6.2... (ami-08b5b3a93ed654d19). Virtual server type (instance type): t2.micro. Firewall (security group): New security group. Storage (volumes): 1 volume(s) - 8 GiB.
Buttons: Cancel, Launch instance, Preview code.

EBS, Snapshot, EFS

The screenshot shows the AWS EC2 'Launch an instance' configuration page. On the left, under 'Security group rule 2 (TCP, 443, 0.0.0.0/0)', it lists an HTTPS rule with 'Protocol' set to TCP and 'Port range' set to 443. The 'Source type' is 'Anywhere'. A note below states: '⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.' On the right, the 'Summary' section shows 'Number of instances' as 1, 'Software Image (AMI)' as Amazon Linux 2023 AMI 2023.6.2..., 'Virtual server type (instance type)' as t2.micro, 'Firewall (security group)' as New security group, and 'Storage (volumes)' as 1 volume(s) - 8 GiB. There are 'Cancel' and 'Launch instance' buttons.

The screenshot shows the AWS EC2 'Launch an instance' confirmation page. A green success message at the top says: 'Success Successfully initiated launch of instance (i-0af707314a22e451b)'. Below this, there's a 'Launch log' button. The 'Next Steps' section contains several cards: 'Create billing and free tier usage alerts', 'Connect to your instance', 'Connect an RDS database', 'Create EBS snapshot policy', 'Manage detailed monitoring', 'Create Load Balancer', 'Create AWS budget', and 'Manage CloudWatch alarms'. Each card has a corresponding 'Create' or 'Learn more' button.

EBS, Snapshot, EFS

The screenshot shows the 'Launch an instance' wizard on the AWS EC2 console. The first step, 'Name and tags', is displayed. A text input field contains the name 'efs2'. To the right, there is a button labeled 'Add additional tags'.

The second step, 'Application and OS Images (Amazon Machine Image)', is shown. It features a search bar and a grid of pre-installed AMI icons for various operating systems like Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, and Debian. A link 'Browse more AMIs' is available for additional options.

The third step, 'Instance type', is displayed. It lists the selected instance type 't2.micro' and provides detailed pricing information for On-Demand and Reserved instances across various operating systems. A note states 'Additional costs apply for AMIs with pre-installed software'.

The fourth step, 'Key pair (login)', is shown. It asks for a key pair name, with 'efs' entered in the input field. A 'Create new key pair' button is also present.

The fifth step, 'Network settings', is displayed. It includes sections for 'Network' (with a single VPC entry), 'Subnet' (no preference), 'Auto-assign public IP' (disabled), and 'Firewall (security groups)' (New security group).

The final screenshot shows the 'Summary' page. It displays the launched instance details: Name 'efs2', Software Image (AMI) 'Amazon Linux 2023 AMI 2023.6.2...', Virtual server type (instance type) 't2.micro', and a large orange 'Launch instance' button.

EBS, Snapshot, EFS

The screenshot shows the AWS EC2 'Launch an instance' wizard. The top navigation bar includes tabs for ChatGPT, awsacademy.instructure.com, Launch an instance | EC2, www.semanticscholar.org, Enhancing Student Placement, Online Training and Placement, and other browser tabs. The address bar shows us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances. The user is signed in as vodlabs/user3879096=reddyprasad.kmit@gmail.com @ 8269-1826-5081.

Network settings (Info)

- Network** | Info: vpc-055ab3babeb60e07a
- Subnet** | Info: No preference (Default subnet in any availability zone)
- Auto-assign public IP** | Info: Enable
- Firewall (security groups)** | Info: A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
 - Create security group
 - Select existing security group
- We'll create a new security group called 'launch-wizard-8' with the following rules:
 - Allow SSH traffic from Anywhere (0.0.0.0/0) Helps you connect to your instance
 - Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server
 - Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server
- Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.**

Summary

- Number of instances** | Info: 1
- Software Image (AMI)**: Amazon Linux 2023 AMI 2023.6.2... [read more](#) ami-08b5b3a93ed654d19
- Virtual server type (instance type)**: t2.micro
- Firewall (security group)**: New security group
- Storage (volumes)**: 1 volume(s) - 8 GiB

Configure storage | Advanced

Network settings (Info)

- VPC - required** | Info: vpc-055ab3babeb60e07a (default)
- Subnet** | Info: subnet-001286422fc613de1 VPC: vpc-055ab3babeb60e07a Owner: 826918265081 Availability Zone: us-east-1b Zone type: Availability Zone IP addresses available: 4090 CIDR: 172.31.32.0/20
- Create new subnet**
- Auto-assign public IP** | Info: Enable
- Firewall (security groups)** | Info: A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
 - Create security group
 - Select existing security group
- Security group name - required**: efs2-efs1
- Description - required**: launch-wizard-8 created 2025-03-18T05:57:26.471Z

Inbound Security Group Rules

- ▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type | Info **Protocol** | Info **Port range** | Info

EBS, Snapshot, EFS

The screenshot shows the AWS EC2 Instances Launch wizard. On the left, a sidebar menu is visible under the EC2 section, listing various services like Instances, Images, Elastic Block Store, Network & Security, and more. The main area displays the security group configuration for launching an instance. It shows three rules defined:

- Security group rule 1 (TCP, 22, 0.0.0.0/0)**: Type: ssh, Protocol: TCP, Port range: 22, Source type: Anywhere, Description: e.g. SSH for admin desktop.
- Security group rule 2 (TCP, 443, 0.0.0.0/0)**: Type: HTTPS, Protocol: TCP, Port range: 443, Source type: Anywhere, Description: e.g. SSH for admin desktop.
- Security group rule 3 (TCP, 2049, 0.0.0.0/0)**: Type: NFS, Protocol: TCP, Port range: 2049, Source type: Anywhere, Description: e.g. SSH for admin desktop.

On the right, a summary panel provides details about the launch configuration, including the number of instances (1), software image (Amazon Linux 2023 AMI 2023.6.2...), virtual server type (t2.micro), and storage (1 volume(s) - 8 GiB). Buttons for "Launch instance" and "Preview code" are present.

The screenshot shows the AWS EC2 Instances page. The sidebar menu is identical to the previous screen. The main area displays a table of instances:

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone |
|------|---------------------|----------------|---------------|-------------------|---------------|-------------------|
| efs1 | i-0af707314a22e451b | Running | t2.micro | 2/2 checks passed | View alarms + | us-east-1b |
| efs2 | i-08814e792d747a171 | Running | t2.micro | Initializing | View alarms + | us-east-1b |

A modal window titled "Select an instance" is open at the bottom, listing "efs1" and "efs2".

EBS, Snapshot, EFS

The screenshot shows the AWS EFS console interface. On the left, a sidebar menu includes 'File systems', 'Access points', and links for 'AWS Backup', 'AWS DataSync', and 'AWS Transfer'. The main content area features a large title 'Amazon Elastic File System' with the subtitle 'Scalable, elastic, cloud-native NFS file system'. Below this is a brief description of EFS and a 'Create file system' button. A video player titled 'Amazon Elastic File System - Scalabl...' is embedded in the page. To the right, there are sections for 'Pricing' (indicating no minimum fees) and 'Get started'.

Create file system

Create an EFS file system with recommended settings.

Create file system

Pricing

With EFS, there are no minimum fees. You pay only for the storage that you use, the data that you read and write, and any additional throughput that you provision.

Estimate your cost using the [AWS Pricing Calculator](#).

[Learn more about pricing](#)

Get started

What is Amazon Elastic File System?

Amazon Elastic File System - Scalabl...

Elastic File System

File system (fs-Defabdb8907e571e1c) is creating.

File systems (1)

| Name | File system ID | Encrypted | Total size | Size in Standard | Size in IA | Size in Archive | Provided Throughput (MiB/s) |
|-------------------------|---------------------------------------|------------|------------|------------------|------------|-----------------|-----------------------------|
| efsdemo | fs-Defabdb8907e571e1c | Encrypte d | 0 Bytes | 0 Bytes | 0 Bytes | - | - |

EBS, Snapshot, EFS

The screenshot shows two separate views of the AWS EFS console.

Top View (General Tab):

- Amazon resource name (ARN):** arn:aws:elasticfilesystem:us-east-1:826918265081:file-system/fs-0efabd8907e371e1c
- Performance mode:** General Purpose
- Throughput mode:** Elastic
- Lifecycle management:** Transition into Infrequent Access (IA): 30 day(s) since last access; Transition into Archive: 90 day(s) since last access; Transition into Standard: None
- Availability zone:** Regional
- Automatic backups:** Enabling
- Encrypted:** Yes (arn:aws:elasticfilesystem:us-east-1:814a9cb3-7534-4479-bb28-dce48724ba71)
- File system state:** Available
- DNS name:** fs-0efabd8907e371e1c.efs.us-east-1.amazonaws.com
- Replication overwrite protection:** Enabled

Bottom View (Network Tab):

| Availability zone (AZ-ID) | Mount target ID | Subnet ID | Mount target state | IP address | Network interface ID | Security groups |
|---------------------------|------------------------|--------------------------|--------------------|---------------|-----------------------|-----------------|
| us-east-1a (use1-az4) | fsmt-0488ad8a3aa554c63 | subnet-09a58ddfe7baade6 | Creating | 172.31.31.198 | eni-0316e9618fc1eebf2 | - |
| us-east-1b (use1-az6) | fsmt-0ea90ebbd3824f275 | subnet-001286422fc613de1 | Creating | 172.31.34.69 | eni-067ecc26e75ab9c4 | - |
| us-east-1c (use1-az1) | fsmt-0338fc17e530f7515 | subnet-0a6af58cff0ce4b0b | Creating | 172.31.13.21 | eni-02e82ab505e99791f | - |
| us-east-1d (use1-az2) | fsmt-054cfb36cf824e5ac | subnet-07d20822f1e2d02df | Creating | 172.31.93.112 | eni-060fbf62018018b94 | - |
| us-east-1f (use1-az5) | fsmt-03bac095a64628186 | subnet-0ffdfb83b311d2c21 | Creating | 172.31.68.67 | eni-0ea638ca52ff77a06 | - |

EBS, Snapshot, EFS

The screenshot shows the AWS EFS console interface for managing network access. It displays four separate mount target configurations, each associated with a specific Availability Zone (us-east-1a, us-east-1b, us-east-1c, us-east-1d), Subnet ID, IP address, and a list of Security Groups. The security groups listed are sg-Oa8a1638b4b9b57 and sg-Oa8a1638b4b9b57, both with the '6e' and 'default' options selected.

Mount targets

| Availability zone | Subnet ID | IP address | Security groups |
|-------------------|------------------------|---------------|---|
| us-east-1a | subnet-09a58ddfe7baa | 172.31.31.198 | Choose security g... sg-Oa8a1638b4b9b57 6e default |
| us-east-1b | subnet-001286422fc61 | 172.31.34.69 | Choose security g... sg-Oa8a1638b4b9b57 6e default |
| us-east-1c | subnet-0a6af58cff0ce41 | 172.31.13.21 | Choose security g... sg-Oa8a1638b4b9b57 6e default |
| us-east-1d | subnet-07d20822f1e2d | 172.31.93.112 | Choose security g... sg-Oa8a1638b4b9b57 6e default |

Network

Virtual Private Cloud (VPC)
Choose the VPC where you want EC2 instances to connect to your file system.
vpc-055ab3babeb60e07a
default

You must delete all existing mount targets in order to change the VPC of your file system.

Mount targets

| Availability zone | Subnet ID | IP address | Security groups |
|-------------------|----------------------|---------------|---|
| us-east-1a | subnet-09a58ddfe7baa | 172.31.31.198 | Choose security g... sg-0e0791554f317e9 d8 efs1-efs1 |
| | | | sg-0c62ca109d59e3f6 2 efs1-efs2 |
| | | | sg-Oa8a1638b4b9b57 6e default |

EBS, Snapshot, EFS

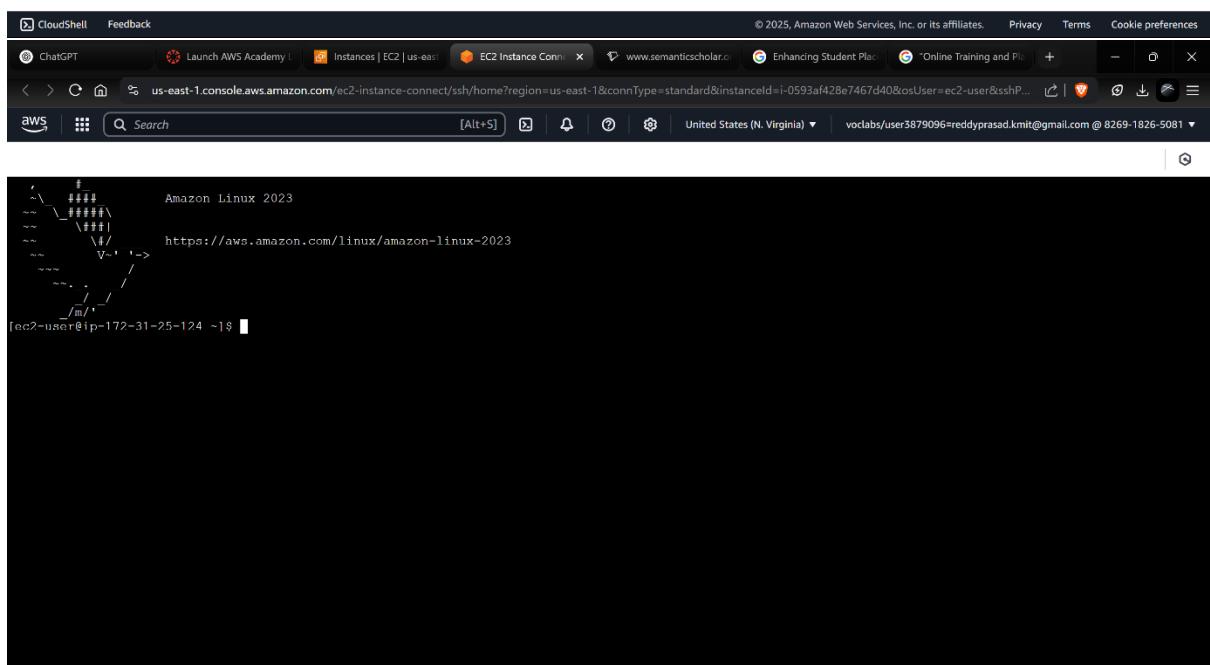
The screenshot displays two separate AWS console sessions.

EFS Console: The top window shows the AWS EFS console with a success message: "Submitted all mount target changes successfully for file system (fs-0efabd8907e371e1c)". The file system details page for "efsdemo (fs-0efabd8907e371e1c)" is visible, including settings like ARN, Performance mode (General Purpose), and File system state (Available). The DNS name is listed as "fs-0efabd8907e371e1c.efs.us-east-1.amazonaws.com".

EC2 Instances Console: The bottom window shows the AWS EC2 Instances page. It lists two instances: "efs1" (running, t2.micro, us-east-1a) and "efs2" (running, t2.micro, us-east-1b). The details view for instance "i-0593af428e7467d40 (efs1)" is expanded, showing instance summary information such as Instance ID (i-0593af428e7467d40), Public IPv4 address (54.173.3.7), Private IPv4 address (172.31.25.124), and Private IP DNS name (ip-172-31-25-124.ec2.internal).

EBS, Snapshot, EFS

The screenshot shows the AWS EC2 Connect interface. At the top, it displays the instance ID: **i-0593af428e7467d40 (efs1)**. Below this, there are four tabs: **EC2 Instance Connect** (selected), **Session Manager**, **SSH client**, and **EC2 serial console**. Under the **Connection Type** section, the **Public IPv4 address** option is selected, showing the IP **54.173.3.7**. There is also an option for **IPv6 address**. The **Username** field contains **ec2-user**. A note at the bottom states: **Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.** At the bottom right are **Cancel** and **Connect** buttons.



i-0593af428e7467d40 (efs1)

PublicIPs: 54.173.3.7 PrivateIPs: 172.31.25.124



EBS, Snapshot, EFS

The screenshot shows the AWS EC2 Instances page. On the left, a sidebar navigation includes EC2, Dashboard, EC2 Global View, Events, Instances (with sub-options like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), and Network & Security (Security Groups, Elastic IPs). The main content area displays a table of instances. The first instance, efs1, is listed as Running. The second instance, efs2, is also Running and has a status check of 2/2 checks passed. Below the table, the details for instance i-08814e792d747a171 (efs2) are shown. The Details tab is selected, displaying information such as Instance ID (i-08814e792d747a171), Public IPv4 address (18.232.85.88), Instance state (Running), and Private IP DNS name (ip-172-31-46-202.ec2.internal). The screenshot also shows the AWS CloudShell interface at the bottom.

Instances (1/2) [Info](#)

Last updated less than a minute ago

Connect [Instance state](#) Actions [Launch instances](#)

Find Instance by attribute or tag (case-sensitive)

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone |
|--|---------------------|----------------|---------------|-------------------|-----------------------------|-------------------|
| efs1 | i-0593af428e7467d40 | Running | t2.micro | Initializing | View alarms | us-east-1a |
| <input checked="" type="checkbox"/> efs2 | i-08814e792d747a171 | Running | t2.micro | 2/2 checks passed | View alarms | us-east-1b |

i-08814e792d747a171 (efs2)

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

Instance summary

| | | |
|---|--|--|
| Instance ID i-08814e792d747a171 | Public IPv4 address 18.232.85.88 open address | Private IPv4 addresses 172.31.46.202 |
| IPv6 address - | Instance state Running | Public IPv4 DNS ec2-18-232-85-88.compute-1.amazonaws.com open address |
| Hostname type IP name: ip-172-31-46-202.ec2.internal | Private IP DNS name (IPv4 only) ip-172-31-46-202.ec2.internal | |

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CloudShell Feedback

ChatGPT Launch AWS Academy Connect to instance EC2 Instance Connect www.semanticscholar.c Enhancing Student Pla Online Training and Pl us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance\$instanceId=i-08814e792d747a171 United States (N. Virginia) vodlabs/user3879096=reddyprasad.kmit@gmail.com @ 8269-1826-5081

EC2 Instances > i-08814e792d747a171 > Connect to instance

Connect to instance

Connect to your instance i-08814e792d747a171 (efs2) using any of these options

EC2 Instance Connect Session Manager [SSH client](#) EC2 serial console

Instance ID
[i-08814e792d747a171 \(efs2\)](#)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is efs.pem.
3. Run this command, if necessary, to ensure your key is not publicly viewable.
[chmod 400 "efs.pem"](#)
4. Connect to your instance using its Public DNS:
[ec2-18-232-85-88.compute-1.amazonaws.com](#)

Example:
[ssh -i "efs.pem" ec2-user@ec2-18-232-85-88.compute-1.amazonaws.com](#)

Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

[Cancel](#)

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EBS, Snapshot, EFS

```
ec2-user@ip-172-31-13-252~
Microsoft Windows [Version 10.0.22631.4830]
(c) Microsoft Corporation. All rights reserved.

D:\3-2\CC\LAB\7_XFS>ssh -i "efs.pem" ec2-user@ec2-34-200-254-44.compute-1.amazonaws.com
The authenticity of host 'ec2-34-200-254-44.compute-1.amazonaws.com (34.200.254.44)' can't be established.
ED25519 key fingerprint is SHA256:5AgGQCwvjQh1NPR+hbvAPOCq1dQpgirBiCyn1bzW6c8.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-34-200-254-44.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

,      #
~\_\####_      Amazon Linux 2023
~~ \####|
~~ \|##|
~~ \|/|      https://aws.amazon.com/linux/amazon-linux-2023
~~ \|~|--->
~~ \|~|/
~~ \|~|/
[ec2-user@ip-172-31-13-252 ~]$
```

```
root@ip-172-31-13-252:/home/ec2-user
D:\3-2\CC\LAB\7_XFS>ssh -i "efs.pem" ec2-user@ec2-34-200-254-44.compute-1.amazonaws.com
The authenticity of host 'ec2-34-200-254-44.compute-1.amazonaws.com (34.200.254.44)'
can't be established.
ED25519 key fingerprint is SHA256:5AgGQCwvjQh1NPR+hbvAPOCq1dQpgirBiCyn1bzW6c8.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-34-200-254-44.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

,      #
~\_\####_      Amazon Linux 2023
~~ \####|
~~ \|##|
~~ \|/|      https://aws.amazon.com/linux/amazon-linux-2023
~~ \|~|--->
~~ \|~|/
~~ \|~|/
[ec2-user@ip-172-31-13-252 ~]$ sudo su
[root@ip-172-31-13-252 ec2-user]# yum install -y amazon-efs-utils

aws
United States | vodlabs/user3879096=reddyprasa
Last login: Tue Mar 18 06:23:12 2025 from 18.206.107.27
[ec2-user@ip-172-31-25-124 ~]$ sudo su
[root@ip-172-31-25-124 ec2-user]#
```

i-0593af428e7467d40 (efs1)
PublicIP: 3.89.57.81 PrivateIP: 172.31.25.124

EBS, Snapshot, EFS

```
[root@ip-172-31-13-252 ~]# yum install -y amazon-efs-utils
Amazon Linux 2023 Kernel Livepatch repository      103 kB/s |  14 kB    00:00
Dependencies resolved.
=====
 Package          Arch    Version        Repository   Size
=====
 Installing:    amazon-efs-utils x86_64  2.1.0-1.amzn2023      amazonlinux  1.2 M
 Installing dependencies:
   stunnel        x86_64  5.58-1.amzn2023.0.2      amazonlinux  156 k
=====
 Transaction Summary
=====
 Install 2 Packages

Total download size: 1.4 M
Installed size: 4.5 M
Downloading Packages:
(1/2): stunnel-5.58-1.amzn2023.0.2.x86_64.rpm      3.6 MB/s | 156 kB    00:00
(2/2): amazon-efs-utils-2.1.0-1.amzn2023.x86_64.rpm 18 MB/s | 1.2 MB    00:00
-----
Total                                         13 MB/s | 1.4 MB    00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing :                                                 1/1
  Installing : stunnel-5.58-1.amzn2023.0.2.x86_64      1/2
  Running scriptlet: stunnel-5.58-1.amzn2023.0.2.x86_64 1/2
  Installing : amazon-efs-utils-2.1.0-1.amzn2023.x86_64 2/2
  Running scriptlet: amazon-efs-utils-2.1.0-1.amzn2023.x86_64 2/2
  Verifying   : amazon-efs-utils-2.1.0-1.amzn2023.x86_64 1/2
  Verifying   : stunnel-5.58-1.amzn2023.0.2.x86_64      2/2
=====
Installed:
  amazon-efs-utils-2.1.0-1.amzn2023.x86_64
  stunnel-5.58-1.amzn2023.0.2.x86_64
=====
Complete!
[root@ip-172-31-13-252 ~]#
```

i-0593af428e7467d40 (efs1)
PublicIPs: 3.89.57.81 PrivateIPs: 172.31.25.124

EBS, Snapshot, EFS

The screenshot shows the AWS EFS console interface. The main page displays the 'General' tab for a file system named 'efsdemo'. Key details include:

- Amazon resource name (ARN): arn:aws:elasticfilesystem:us-east-1:826918265081:file-system/fs-0efabd8907e371e1c
- Automatic backups: Enabled
- Encrypted: Yes (814a9cb3-7534-4479-bb28-dce48724ba71)
- File system state: Available
- DNS name: fs-0efabd8907e371e1c.efs.us-east-1.amazonaws.com
- Replication overwrite protection: Enabled

Below the General tab, there are tabs for Metered size, Monitoring, Tags, File system policy, Access points, Network, and Replication.

The screenshot shows the 'Attach' tab for the same 'efsdemo' file system. It provides instructions for mounting the file system:

- Mount via DNS (selected):
sudo mount -t efs -o tls fs-0efabd8907e371e1c:/ efs
- Mount via IP:
sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0efabd8907e371e1c.efs.us-east-1.amazonaws.com:/ efs

Links for 'See our user guide for more information' and a 'Close' button are also present.

EBS, Snapshot, EFS

```
[root@ip-172-31-13-252 ~]# yum install -y amazon-efs-utils stunnel
=====
==== Package                                         Arch   Version      Repository    Size
=====
amazon-efs-utils.x86_64  2.1.0-1.amzn2023        amazonlinux  1.2 M  Installing:
stunnel.x86_64           5.58-1.amzn2023-0.2     amazonlinux  156 k

Transaction Summary
=====
==== Install  2 Packages

Total download size: 1.4 M
Installed size: 4.5 M
Downloading Packages:
(1/2): stunnel-5.58-1.amzn2023.0.2.x86_64.rpm 3.6 MB/s | 156 kB  00:00
(2/2): amazon-efs-utils-2.1.0-1.amzn2023.x86_64.rpm 18 MB/s | 1.2 MB  00:00
                                                               -----Total
                                                               13 MB/s | 1.4 MB  00:00

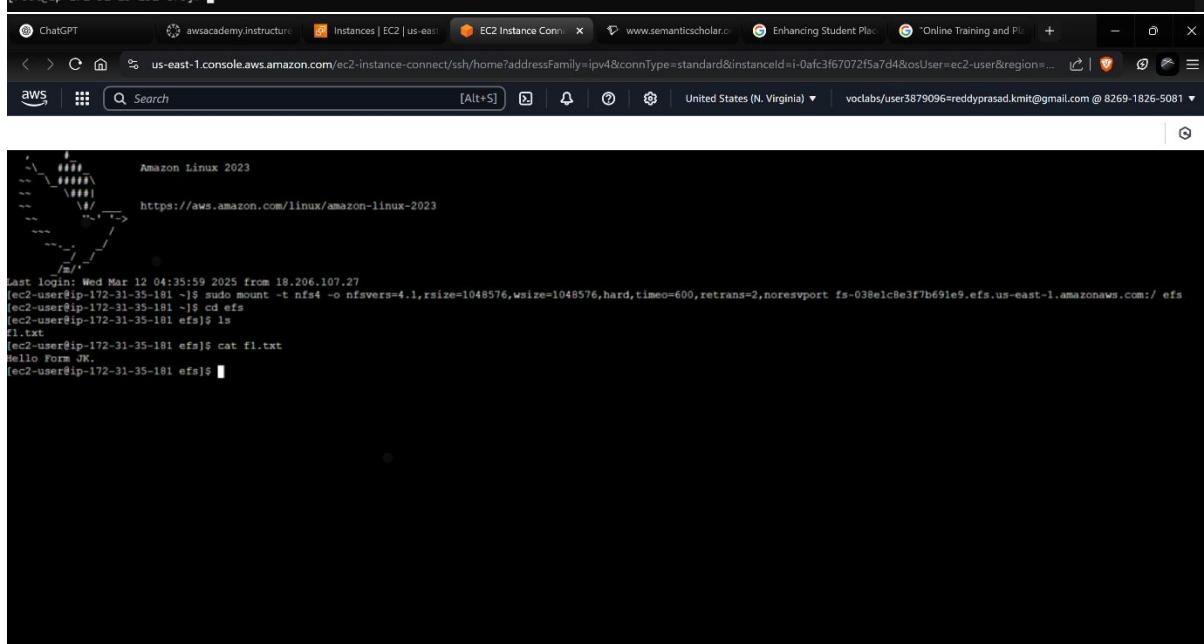
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Installing : stunnel-5.58-1.amzn2023.0.2.x86_64 1/2
Running scriptlet: stunnel-5.58-1.amzn2023.0.2.x86_64 1/2
Installing : amazon-efs-utils-2.1.0-1.amzn2023.x86_64 2/2
Running scriptlet: amazon-efs-utils-2.1.0-1.amzn2023.x86_64 2/2
Verifying  : amazon-efs-utils-2.1.0-1.amzn2023.x86_64 1/2
Verifying  : stunnel-5.58-1.amzn2023.0.2.x86_64 2/2

Installed:
amazon-efs-utils-2.1.0-1.amzn2023.x86_64  stunnel-5.58-1.amzn2023.0.2.x86_64

Complete!
[root@ip-172-31-13-252 ~]# mkdir efs
[root@ip-172-31-13-252 ~]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-038e1c8e3f7b691e9.efs.us-east-1.amazonaws.com:/efs

[root@ip-172-31-13-252 efs]# ls
f1.txt
[root@ip-172-31-13-252 efs]#
```

EBS, Snapshot, EFS



i-0afc3f67072f5a7d4 (myebs1)

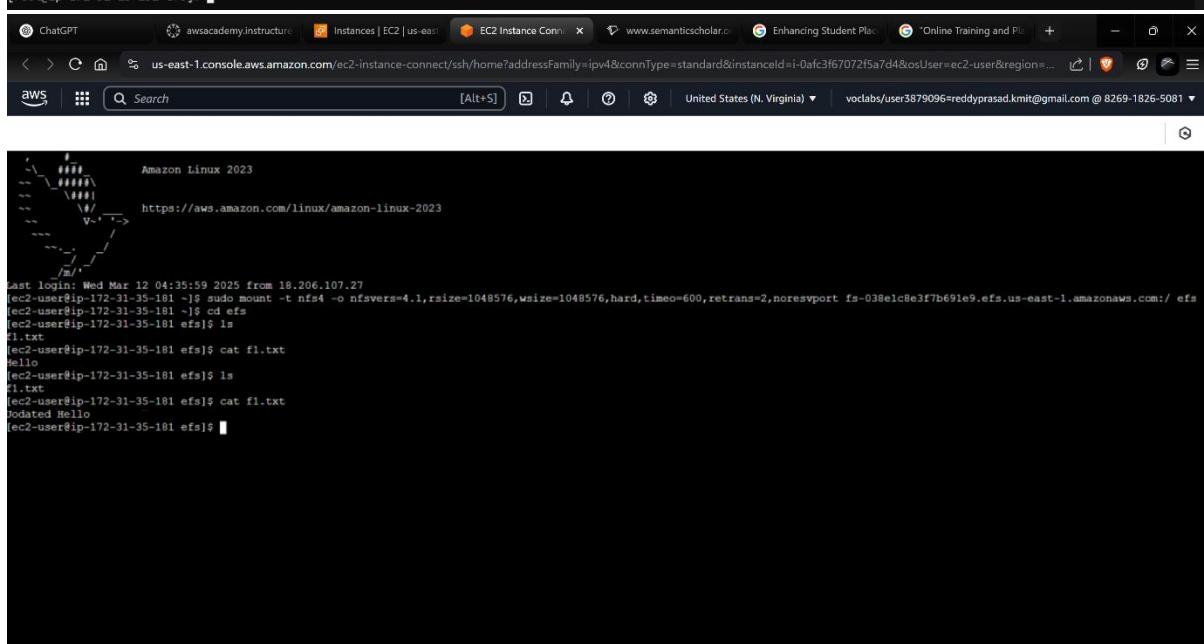
Public IPs: 54.196.230.234 Private IPs: 172.31.28.39

EBS, Snapshot, EFS

```
root@ip-172-31-13-252:~$ GNU nano 5.8
f1.txt
Modified
Updated Hello

^G Help      ^C Write Out    ^W Where Is      ^K Cut          ^T Execute      ^C Location     M-U Undo      M-A Set Mark   M-[ To Bracket  M-Q Previous
^X Exit      ^R Read File    ^\ Replace       ^U Paste        ^D Justify      ^Y Go To Line   M-E Redo      M-C Copy      ^C Where Was    M-W Next
```

EBS, Snapshot, EFS



i-0afc3f67072f5a7d4 (myebs1)

Public IPs: 54.196.230.234 Private IPs: 172.31.28.39