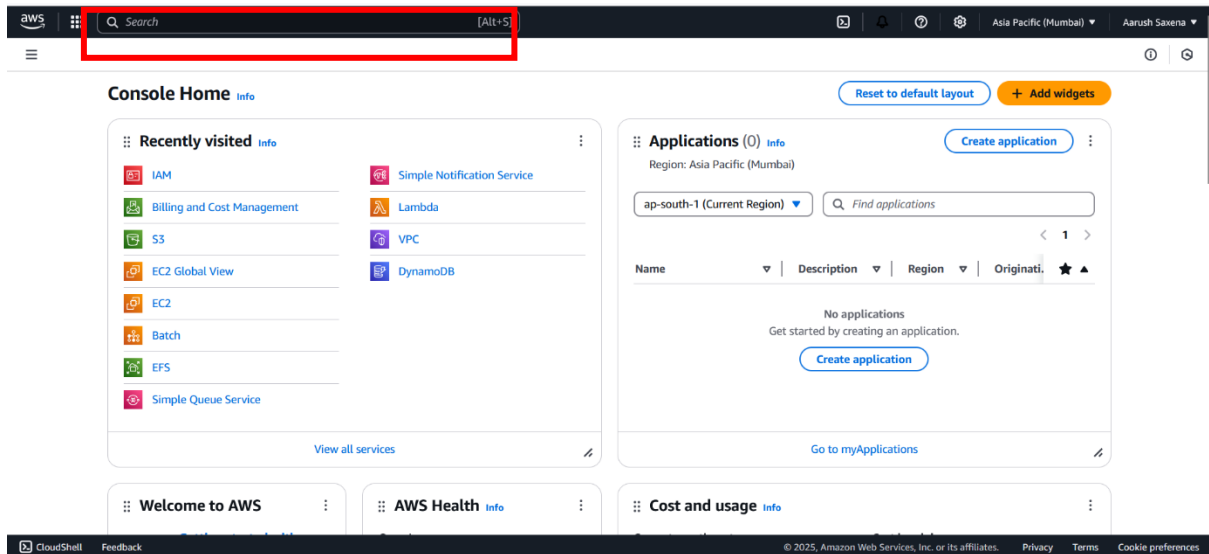
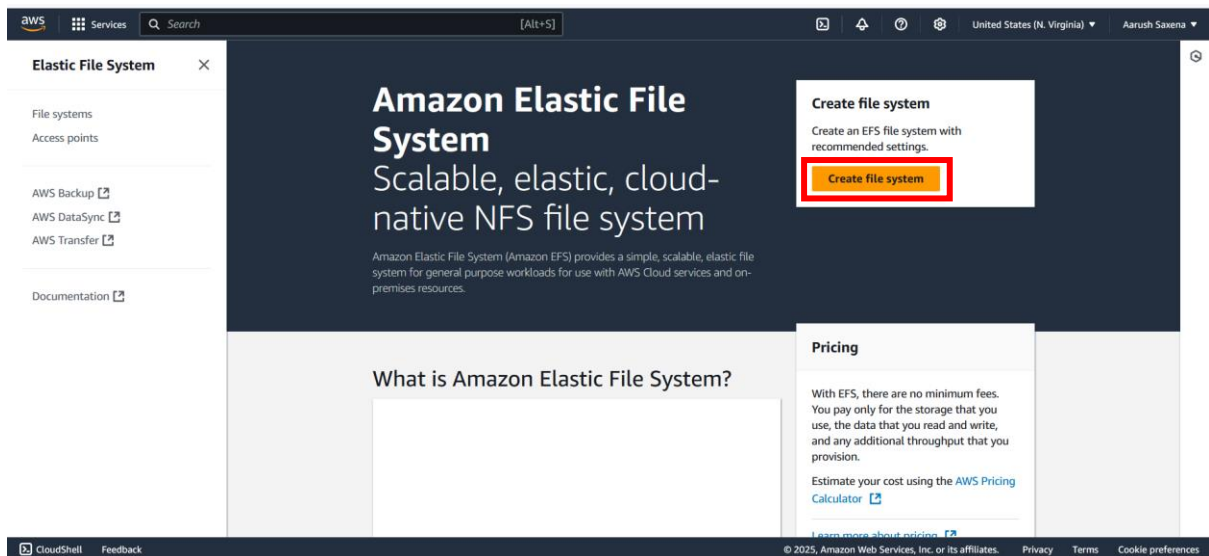


EFS(Elastic File System)

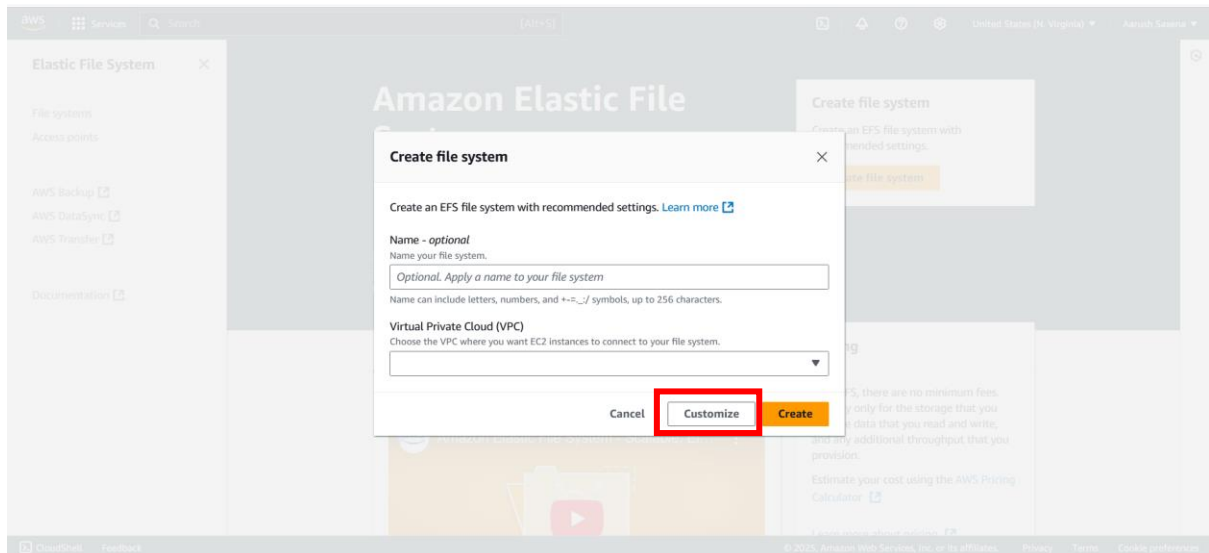
Step1: From the search bar search for EFS.



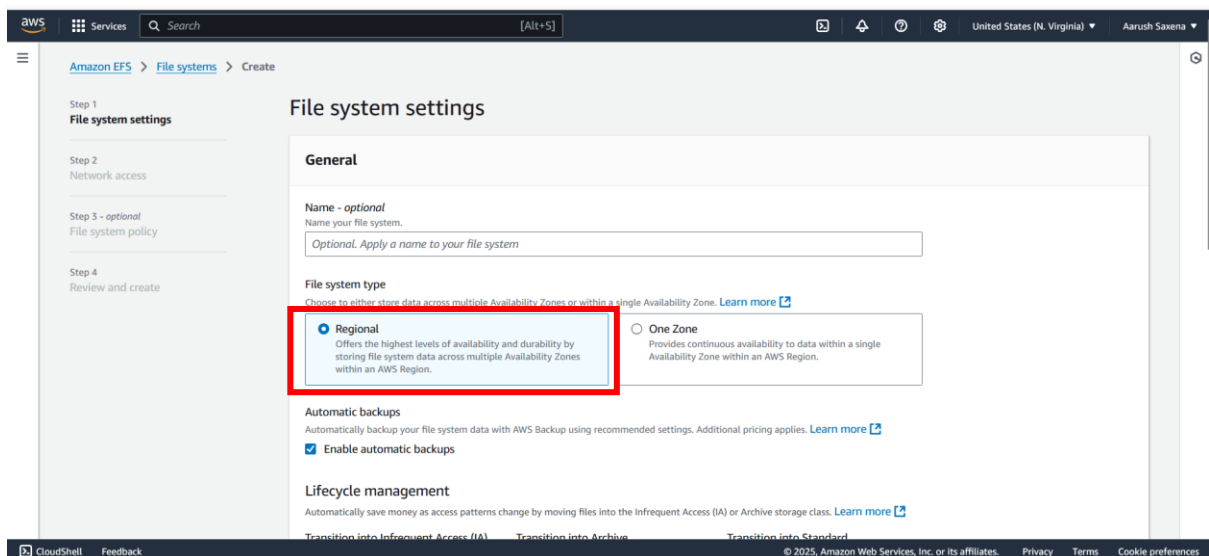
After clicking on it EFS dashboard will appear as shown in image given below. Click on create file system button



A pop up will appear as shown in image given below click on customize button.



Give name to EFS we specify it as sample-elastic-file-system and choose regional file system type so that it can be accessible from every availability zone.



We can create lifecycle management so that we don't pay extra and set data to access according to the need.

Lifecycle management
Automatically save money as access patterns change by moving files into the Infrequent Access (IA) or Archive storage class. [Learn more](#)

Transition into Infrequent Access (IA)
Transition files to IA based on the time since they were last accessed in Standard storage.
30 day(s) since last access

Transition into Archive
Transition files to Archive based on the time since they were last accessed in Standard storage.
90 day(s) since last access

Transition into Standard
Transition files back to Standard storage based on when they are first accessed in IA or Archive storage.
None

Encryption
Choose to enable encryption of your file system's data at rest. Uses the AWS KMS service key (aws:elasticfilesystem) by default. [Learn more](#)

☒ **Enable encryption of data at rest**

► [Customize encryption settings](#)

Performance settings

Throughput mode
Choose a method for your file system's throughput limits. [Learn more](#)

☒ **Enhanced**
Provides more flexibility and higher throughput levels for workloads with a range of performance requirements.

☐ **Bursting**
Provides throughput that scales with the amount of storage for workloads with basic performance requirements.

☒ **Elastic (Recommended)**
Use this mode for workloads with unpredictable I/O. With Elastic Throughput, performance automatically scales with your workload activity

Choose enhanced performance settings and go for elastic and performance mode on general purpose and click on next button.

Performance settings

Throughput mode
Choose a method for your file system's throughput limits. [Learn more](#)

☒ **Enhanced**
Provides more flexibility and higher throughput levels for workloads with a range of performance requirements.

☐ **Bursting**
Provides throughput that scales with the amount of storage for workloads with basic performance requirements.

☒ **Elastic (Recommended)**
Use this mode for workloads with unpredictable I/O. With Elastic Throughput, performance automatically scales with your workload activity and you only pay for the throughput you use (data transferred for your file systems per month). [Learn more](#)

☐ **Provisioned**
Use this mode if you can estimate your workload's throughput requirements. With Provisioned mode, you configure your file system's throughput and pay for throughput provisioned.

► [Additional settings](#)

▼ **Tags optional**

Add tags to associate key-value pairs to your resource. [Learn more](#)

Additional settings

Performance mode
Set your file system's performance mode based on IOPS required. File systems using Elastic throughput mode only support General Purpose performance mode. [Learn more](#)

☒ **General Purpose (Recommended)**
Ideal for a variety of diverse workloads, including high performance and latency-sensitive applications

☐ **Max I/O**
Designed for highly parallelized workloads that can tolerate higher latencies

▼ **Tags optional**

Add tags to associate key-value pairs to your resource. [Learn more](#)

Tag key: X

Tag value - optional: X [Remove tag](#)

[Add tag](#)

You can add 49 more tag(s)

[Cancel](#) [Next](#)

Leave everything as default and click on next, next and create.

The screenshot shows the 'Network' configuration step in the AWS Management Console. On the left, a sidebar lists the steps: Step 2 (Network access), Step 3 - optional (File system policy), and Step 4 (Review and create). The main content area is titled 'Network' and includes a 'Virtual Private Cloud (VPC)' dropdown set to 'vpc-0b3e5f9d12a5a50a3'. Below this is the 'Mount targets' section, which contains a table for configuring mount targets across three Availability Zones (ap-south-1a, ap-south-1b, and ap-south-1c). Each row specifies a Subnet ID, an Automatic IP address, and a Security group (sg-0218bbebe69133f6b). The bottom of the console shows the footer with 'CloudShell', 'Feedback', and copyright information for 2025.

Availability zone	Subnet ID	IP address	Security groups
ap-south-1a	subnet-05d19f63af...	Automatic	sg-0218bbebe69133f6b default
ap-south-1b	subnet-0a067d363...	Automatic	sg-0218bbebe69133f6b default
ap-south-1c	subnet-0b845d8dd...	Automatic	sg-0218bbebe69133f6b default

The screenshot displays the 'File system policy - optional' step. The sidebar shows Step 1 (File system settings), Step 2 (Network access), and Step 3 - optional (File system policy). The main area is divided into 'Policy options' and a 'Policy editor (JSON)'. Under 'Policy options', there are four checkboxes: 'Prevent root access by default*', 'Enforce read-only access by default*', 'Prevent anonymous access', and 'Enforce in-transit encryption for all clients'. A note states that identity-based policies can override these default permissions. The 'Policy editor (JSON)' is currently empty, with a 'Clear' button. At the bottom, there are 'Cancel', 'Previous', and 'Next' buttons. The footer includes 'CloudShell', 'Feedback', and copyright information for 2025.

And your EFS has been created now have to attach it to EC2.

The screenshot shows the 'Elastic File System' page in the AWS Management Console. A blue banner at the top indicates 'File system (fs-05b2fecbc57c84c3d) is creating.' The left sidebar lists 'File systems', 'Access points', 'AWS Backup', 'AWS DataSync', 'AWS Transfer', and 'Documentation'. The main content area, titled 'Amazon EFS > File systems', shows a table with one file system entry. The table has columns for Name, File system ID, Encryption status, Total size, Size in Standard, Size in IA, Size in Archive, and Provisioned Throughput. The entry for 'sample-elastic-file-system' shows it is encrypted and has 0 Bytes in all size categories. A 'Create file system' button is visible in the top right. The footer includes 'CloudShell', 'Feedback', and copyright information for 2025.

Name	File system ID	Encryption	Total size	Size in Standard	Size in IA	Size in Archive	Provisioned Throughput (MiB/s)
sample-elastic-file-system	fs-05b2fecbc57c84c3d	Encrypt	0 Bytes	0 Bytes	0 Bytes	0 Bytes	-

Step2: Go to EC2 dashboard and create EC2

The screenshot shows the AWS Management Console EC2 dashboard. The left sidebar contains navigation links for Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, and Lifecycle Manager. The main content area displays 'Resources' for the Asia Pacific (Mumbai) Region, showing counts for various EC2 resources. The 'Instances (running)' count is highlighted with a red box. Below the resources, there is a 'Launch instance' section with a 'Launch instance' button and a 'Migrate a server' button. The 'Service health' section shows the AWS Health Dashboard and the status of the service. The 'Offer usage (monthly)' section shows the usage of Linux EC2 Instances and Storage space on EBS. The 'Account attributes' section is also visible.

Resources		
Instances (running)	0	Auto Scaling Groups
Dedicated Hosts	0	Elastic IPs
Key pairs	1	Load balancers
Security groups	2	Snapshots
		Capacity Reservations
		Instances
		Placement groups
		Volumes

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

[Launch instance](#)

[Migrate a server](#)

Note: Your instances will launch in the Asia Pacific (Mumbai) Region

Service health

[AWS Health Dashboard](#)

Region: Asia Pacific (Mumbai)

Status: ✔ This service is operating normally.

Zones

Zone name	Zone ID
-----------	---------

Offer usage (monthly)

Linux EC2 Instances: 749,845,556 hours remaining (0%)

Storage space on EBS: 30 GB remaining (0%)

[View all AWS Free Tier offers](#)

Account attributes

The screenshot shows the AWS Management Console EC2 Instances page. The left sidebar contains navigation links for Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, and Lifecycle Manager. The main content area displays the 'Instances' page with a search bar and a table of instances. The 'Launch instances' button in the top right corner is highlighted with a red box. The 'Launch instances' button in the center of the page is also highlighted with a red box.

Instances

Find instance by attribute or tag (case-sensitive)

All states

No instances

You do not have any instances in this region

[Launch instances](#)

Select an instance

The screenshot shows the AWS Management Console EC2 'Launch an instance' page. The left sidebar contains navigation links for Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, and Lifecycle Manager. The main content area displays the 'Launch an instance' page with a 'Name and tags' section, an 'Application and OS Images (Amazon Machine Image)' section, and a 'Summary' section. The 'Name' field in the 'Name and tags' section is highlighted with a red box. The 'Launch Instance' button in the 'Summary' section is also highlighted with a red box.

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name: [Add additional tags](#)

Application and OS Images (Amazon Machine Image)

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

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 includes 750 hours of t2.micro \(or t3.micro in the Regions in which t2.micro is available\)](#)

[Cancel](#) [Launch Instance](#) [Preview code](#)

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Aarush Saxena

EC2

Instances

Launch an instance

▼ Instance type

Info | Get advice

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

Free tier eligible

On-Demand Linux base pricing: 0.0124 USD per Hour On-Demand Windows base pricing: 0.017 USD per Hour

On-Demand RHEL base pricing: 0.0268 USD per Hour On-Demand SUSE base pricing: 0.0124 USD per Hour

On-Demand Ubuntu Pro base pricing: 0.0142 USD per Hour

Additional costs apply for AMIs with pre-installed software

All generations

Compare instance types

▼ Key pair (login)

Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

keyPair

Create new key pair

▼ Network settings

info

Network

Info

vpc-0b3e5f9d12a5a50a3

Subnet

Info

No preference (Default subnet in any availability zone)

Edit

▼ Summary

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.6.2...read more

ami-0d2614eafc1b0e4d2

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 includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro

Cancel

Launch instance

Preview code

CloudShell

Feedback

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Inside the network settings select the subnet as I select ap-south-1a

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Aarush Saxena

EC2

Instances

Launch an instance

▼ Network settings

Info

Network

Info

vpc-0b3e5f9d12a5a50a3

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

Common security groups

Info

Select security groups

default sg-0218bbebe69133f6b

VPC: vpc-0b3e5f9d12a5a50a3

Compare security group rules

Configure storage

Info

Advanced

▼ Summary

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.6.2...read more

ami-0d2614eafc1b0e4d2

Virtual server type (instance type)

t2.micro

Firewall (security group)

default

Storage (volumes)

1 volume(s) - 8 GiB

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Cancel

Launch instance

Preview code

CloudShell

Feedback

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aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Aarush Saxena

EC2

Instances

Launch an instance

▼ Network settings

Info

VPC - required

Info

vpc-0b3e5f9d12a5a50a3

(default)

172.31.0.0/16

Subnet

Info

subnet-05d19f63af3d53842

VPC: vpc-0b3e5f9d12a5a50a3 Owner: 992382687678 Availability Zone: ap-south-1a

Zone type: Availability Zone IP addresses available: 4090 CIDR: 172.31.32.0/20

Create new subnet

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

Common security groups

Info

Select security groups

default sg-0218bbebe69133f6b

VPC: vpc-0b3e5f9d12a5a50a3

Compare security group rules

▼ Summary

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.6.2...read more

ami-0d2614eafc1b0e4d2

Virtual server type (instance type)

t2.micro

Firewall (security group)

default

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro

Cancel

Launch instance

Preview code

CloudShell

Feedback

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Click on edit button

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Aarush Saxena

EC2

Instances

Launch an instance

default sg-0218bbebe69133f6b

VPC: vpc-0b3e5f9d12a5a50a3

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▼ Configure storage

1x 8 GIB gp3 Root volume 3000 IOPS (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems

Edit

Advanced details

▼ 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) default

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

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro

Cancel Launch instance Preview code

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Aarush Saxena

EC2

Instances

Launch an instance

Volume 1 (AMI Root) (8 GiB, EBS, General purpose SSD (gp3), 3000 IOPS)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

No Data Lifecycle Manager policies targeting this instance

Creating backups can help you prevent data loss. Learn more

File systems

EFS FSx

You currently have no file systems on this instance. To add a file system, choose Add shared file system.

Add shared file system Create new shared file system

Advanced details

▼ 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) default

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

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro

Cancel Launch instance Preview code

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Aarush Saxena

EC2

Instances

Launch an instance

File systems

EFS FSx

Shared file system 1

File system fs-05b2fecbc57c84c3d

Mount point /mnt/efs/fs1

Add shared file system Create new shared file system

4 remaining (Up to 5 file systems maximum).

Automatically create and attach security groups

Automatically mount shared file system by attaching required user data script

Advanced details

▼ 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) default

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

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro

Cancel Launch instance Preview code