

## Elastic file system

Amazon Elastic File System (Amazon EFS) is a simple, serverless, set-and-forget, elastic file system.

There is no minimum fee or setup charge. You pay only for the storage you use, for read and write access to data stored in Infrequent Access storage classes, and for any provisioned throughput.

### Steps to create EFS:

**STEP1:**Create Two Ec2 Linux Server----Security group --->Add inbound rule----

>Nfs----->launch instance

Description - required [Info](#)  
launch-wizard-2 created 2023-01-10T12:11:10.164Z

Inbound security groups rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0) [Remove](#)

Type [Info](#) Protocol [Info](#) Port range [Info](#)  
ssh TCP 22

Source type [Info](#) Source [Info](#) Description - optional [Info](#)  
Anywhere [Add CIDR, prefix list or security](#) e.g. SSH for admin desktop  
0.0.0.0/0 [X](#)

▼ Security group rule 2 (TCP, 2049, 0.0.0.0/0) [Remove](#)

Type [Info](#) Protocol [Info](#) Port range [Info](#)  
NFS TCP 2049

Source type [Info](#) Source [Info](#) Description - optional [Info](#)  
Anywhere [Add CIDR, prefix list or security](#) e.g. SSH for admin desktop  
0.0.0.0/0 [X](#)

⚠ 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. [X](#)

[Add security group rule](#)

▼ Summary

Number of instances [Info](#)  
1

Software Image (AMI)  
Amazon Linux 2 Kernel 5.10 AML...[read more](#)  
ami-051a81c2bd3e755db

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 unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet. [X](#)

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

Instance created.

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

[Find instance by attribute or tag \(case-sensitive\)](#)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	efs1	i-0010acf4013832edf	Running	t2.micro	2/2 checks passed	No alarms	ap-southeast-2c	ec2-3-25-237-20
<input checked="" type="checkbox"/>	efs2	i-02bdb0504423f0402	Running	t2.micro	2/2 checks passed	No alarms	ap-southeast-2c	ec2-54-206-32-1

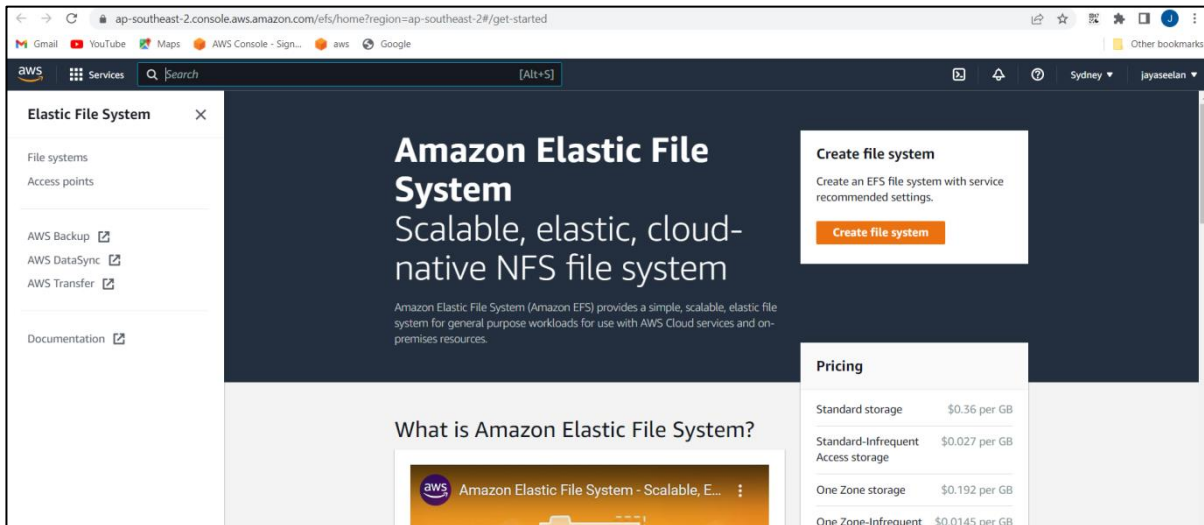
Instance: i-02bdb0504423f0402 (efs2)

Details Security Networking Storage Status checks Monitoring Tags

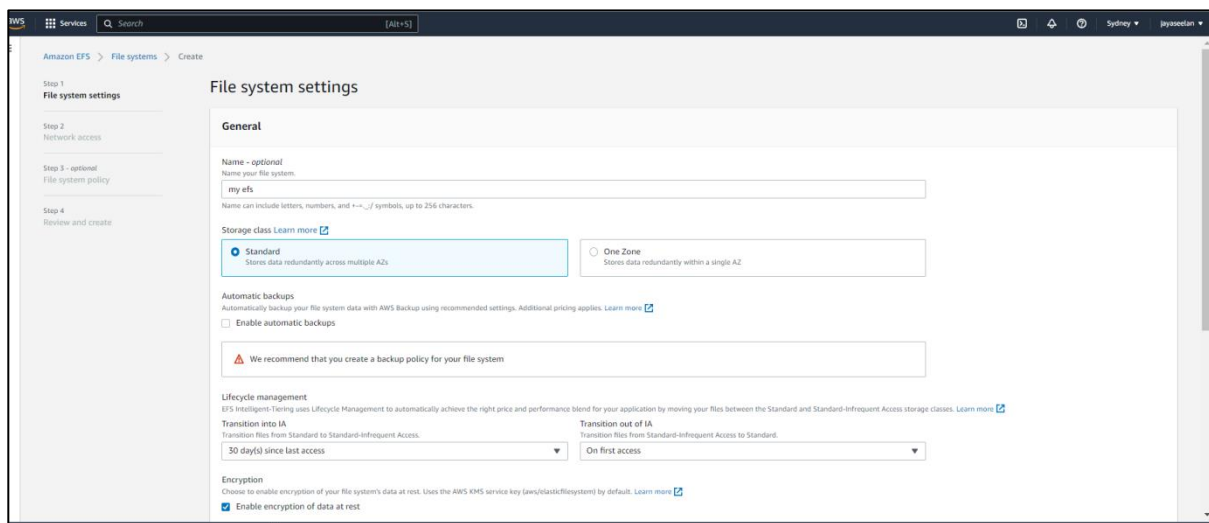
▼ Instance summary [Info](#)

Instance ID	Public IPv4 address	Private IPv4 addresses
i-02bdb0504423f0402 (efs2)	54.206.32.117 <a href="#">Launch addresses</a>	172.31.24.237

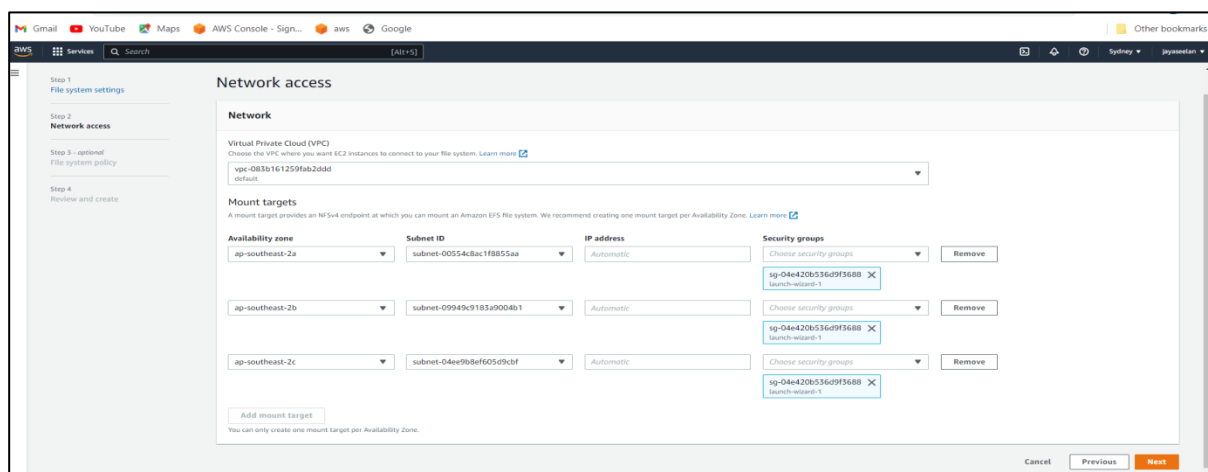
## STEP2:create Efs--->Create File System--->Customize



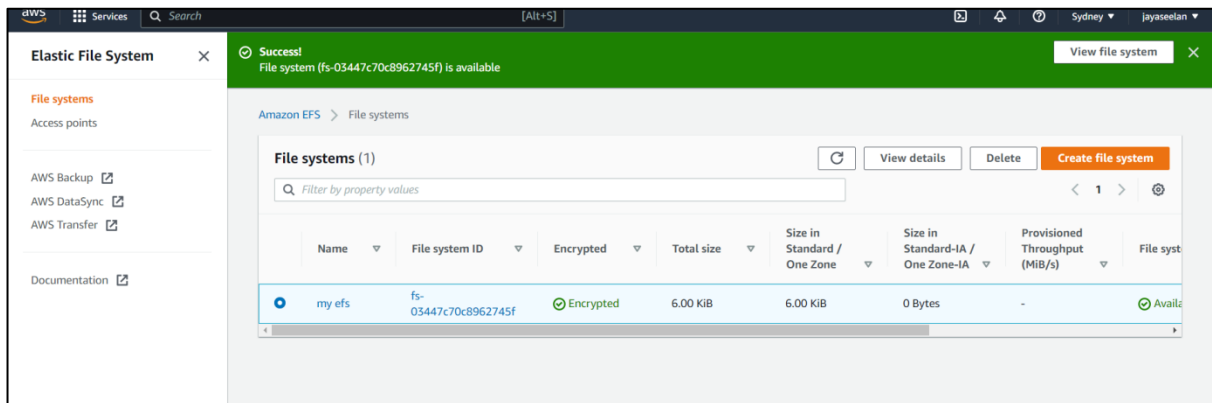
File system setting--->name(any)---->standard--->automatic backup disable--->next



Network acces---->select 3 zone --->security group(instance security group id select)--->next--->next--->review--->create.



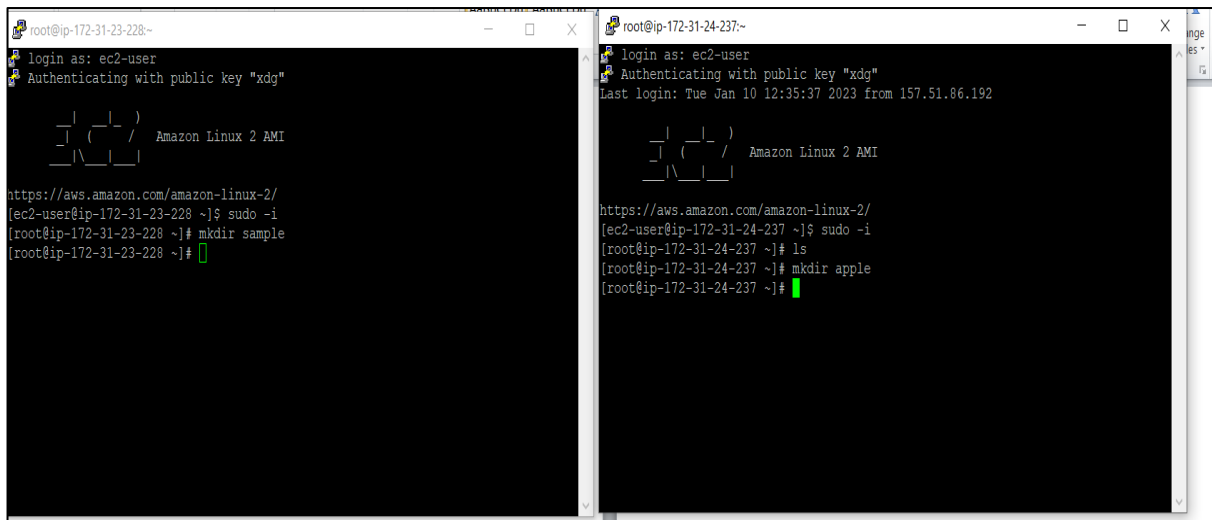
Efs created..



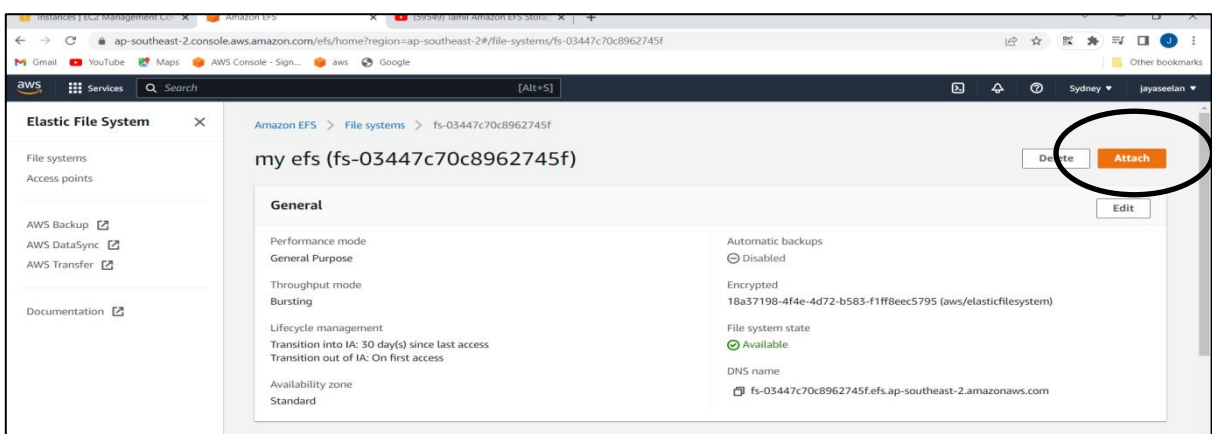
**STEP3:**login 2 instance--->both instance sudo -i---->any directory make both 2 instance

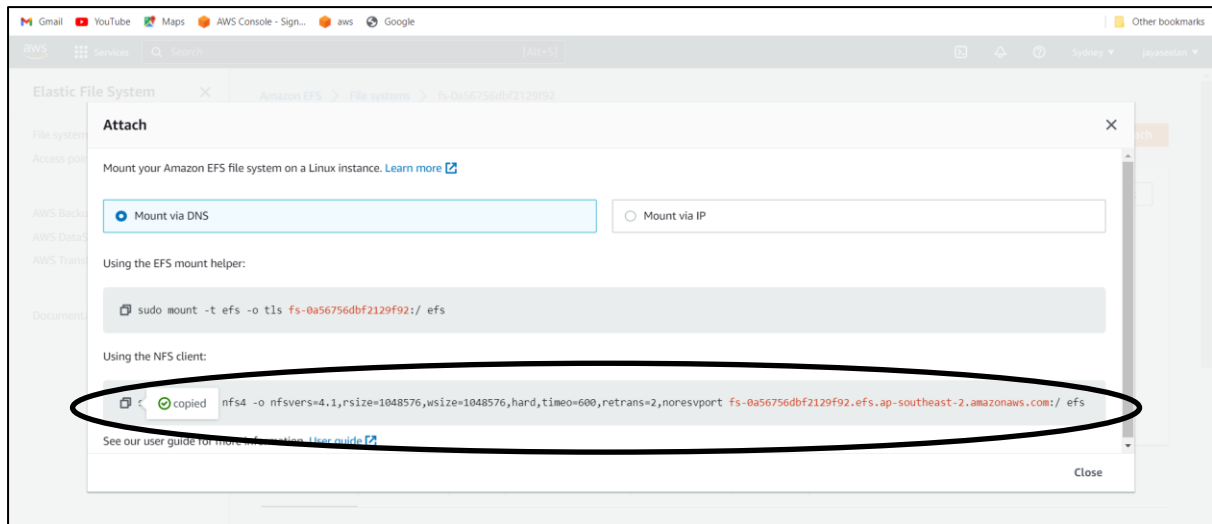
#mkdir sample--->server1

#mkdir apple--->server2



**STEP4:**efs --->creating efs click---->attach--->show mount commands





### STEP3.1: copy mount command put two server

```
sudo mount -t nfs4 -o
nfsvers=4.1,rsize=1048576,wsiz=1048576,hard,timeo=600,retrans=2,noresvport
fs-0a56756dbf2129f92.efs.ap-southeast-2.amazonaws.com:/ efs
```

both 2 server give

Directory name given

### STEP3.2: server1---> #cd {directory name}

# vi {seelan}--->any content add

# cat {seelan}---> content show

Server2---> #cd {directory name}

# vi {jaya}--->any content add

# cat {jaya}---> content show

Now server1 --->put cat jaya--->show content for second server

Now server2 --->put cat seelan--->show content for first server

## server1

```
root@ip-172-31-21-120-~/orange
login as: ec2-user
Authenticating with public key "asdl23"
Last login: Tue Jan 10 13:59:52 2023 from 157.51.86.192

 _ _ _ _ _
|_| ( _ _ _ ) / Amazon Linux 2 AMI
 _ _ _ _ _

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-21-120 ~]$ sudo -i
root@ip-172-31-21-120 ~]$ mkdir sample
mkdir: cannot create directory 'sample': File exists
root@ip-172-31-21-120 ~]$ cd orange
root@ip-172-31-21-120 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsiz=1048576,hard,timeo=600,retrans=2,noresvport fs-0a56756dbf2129f92.efs.ap-southeast-2.amazonaws.com:/ orange
root@ip-172-31-21-120 ~]$ cd orange
root@ip-172-31-21-120 orange]$ vi seelan
root@ip-172-31-21-120 orange]$ cat seelan
this is 1st service
root@ip-172-31-21-120 orange]$ cat jaya
this is 2nd service
root@ip-172-31-21-120 orange]$
```

## Server2

```
root@ip-172-31-20-15-~/guva
login as: ec2-user
Authenticating with public key "asdl23"
Last login: Tue Jan 10 13:52:11 2023 from 157.51.86.192

 _ _ _ _ _
|_| ( _ _ _ ) / Amazon Linux 2 AMI
 _ _ _ _ _

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-20-15 ~]$ sudo -i
root@ip-172-31-20-15 ~]$ mkdir guva
root@ip-172-31-20-15 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsiz=1048576,hard,timeo=600,retrans=2,noresvport fs-0a56756dbf2129f92.efs.ap-southeast-2.amazonaws.com:/ guva
root@ip-172-31-20-15 ~]$ cd guva
root@ip-172-31-20-15 guva]$ ls
seelan
root@ip-172-31-20-15 guva]$ cat seelan
this is 1st service
root@ip-172-31-20-15 guva]$ vi jaya
root@ip-172-31-20-15 guva]$ cat jaya
this is 2nd service
root@ip-172-31-20-15 guva]$
```

Now saw server1 create file are server2 and server2 files saw server1..