

Step 1 - Firstly create EFS from AWS EFS service BY Default.....

Create file system

Create an EFS file system with service recommended settings. [Learn more](#)

Name - optional
Name your file system.

Jarvis-EFS

Name must not be longer than 256 characters, and must only contain letters, numbers, and these characters: + - = . _ : /

Virtual Private Cloud (VPC)
Choose the VPC where you want EC2 instances to connect to your file system. [Learn more](#)

vpc-0d38f6e75bce4c3e6
default

Availability and durability
Choose Regional (recommended) to create a file system using regional storage classes. Choose One Zone to create a file system using One Zone storage classes. [Learn more](#)

☒ **Regional**
Stores data redundantly across multiple AZs

☐ **One Zone**
Stores data redundantly within a single AZ

Cancel

Customize

Create

OR

Create EFS from AWS EFS service BY Customized

Amazon EFS > File systems > Create

Step 1
File system settings

Step 2
Network access

Step 3 - optional
File system policy

Step 4
Review and create

File system settings

General

Name - optional
Name your file system.

Optional. Apply a name to your file system

Name must not be longer than 256 characters, and must only contain letters, numbers, and these characters: + - = . _ : /

Availability and durability
Choose Regional (recommended) to create a file system using regional storage classes. Choose One Zone to create a file system using One Zone storage classes. [Learn more](#)

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Automatic backups
Automatically backup your file system data with AWS Backup using recommended settings. Additional pricing applies. [Learn more](#)

☒ **Enable automatic backups**

Lifecycle management
EFS Intelligent-Tiering uses Lifecycle Management to automatically achieve the right price and performance blend for your application by moving your files between the Standard and Standard-Infrequent Access storage classes. [Learn more](#)

Transition into IA
Transition files from Standard to Standard-Infrequent Access.

30 days since last access

Transition out of IA
Transition files from Standard-Infrequent Access to Standard.

On first access

Performance mode
Set your file system's performance mode based on IOPS required. [Learn more](#)

☒ **General Purpose**
Ideal for latency-sensitive use cases, like web serving environments and content management systems

☐ **Max I/O**
Scale to higher levels of aggregate throughput and operations per second

Throughput mode
Set how your file system's throughput limits are determined. [Learn more](#)

☒ **Bursting**
Throughput scales with file system size

☐ **Provisioned**
Throughput fixed at specified amount

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**

Wait till in Jarvis-EFS → Network → “ALL Mount Target is Available”

Metered size	Monitoring	Tags	File system policy	Access points	Network	Replication
Network						
Availability zone ▲	Mount target ID ▼	Subnet ID ▼	Mount target state ▼	IP address ▼	Network interface ID ▼	Security groups
us-east-1a	fsmt-0e22d403d42cb0d64	subnet-00f2dce42fac57496	Available	172.31.91.178	eni-012118666894bebe8	sg-0a32e0d27189d1f22 (default)
us-east-1b	fsmt-04ebabb2c5764b697	subnet-072b5d54ff135b446	Available	172.31.28.216	eni-0463b04afcaa61296	sg-0a32e0d27189d1f22 (default)
us-east-1c	fsmt-040f40647544de3db	subnet-0806e037bdfb4a34a	Available	172.31.46.66	eni-05f0307c1de0e4bdd	sg-0a32e0d27189d1f22 (default)
us-east-1d	fsmt-01c973e5e136f6584	subnet-001bb7822cb76bee3	Available	172.31.12.238	eni-0b97a9ffae2c27480	sg-0a32e0d27189d1f22 (default)
us-east-1e	fsmt-07e03474a90d4f8bc	subnet-0b9c2d83704ab02fb	Available	172.31.50.82	eni-0d1b97d75dbff3907	sg-0a32e0d27189d1f22 (default)
us-east-1f	fsmt-0eab1a0de5ae271c8	subnet-03268c4017bc37596	Available	172.31.74.85	eni-00c66125e51f64dd9	sg-0a32e0d27189d1f22 (default)

Step 2 – we can directly attach EFS while launching the ec2 instance in {3rd stage instance configuration}

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Tenancy ⓘ

Shared - Run a shared hardware instance
Additional charges will apply for dedicated tenancy.

Elastic Inference ⓘ

☐ Add an Elastic Inference accelerator
Additional charges apply.

Credit specification ⓘ

☐ Unlimited
Additional charges may apply

File systems ⓘ

fs-0e461da2f0ef720a5 | SOMKI

/mnt/efs/fs1

Add file system

Create new file system

Additional security groups required

To enable access to the file system, the required security groups will be automatically created and attached to this instance and the selected file system's mount targets. To manually manage the security groups, clear the check box. [Learn more](#).

☒ Automatically create and attach the required security groups.



Additional security groups required

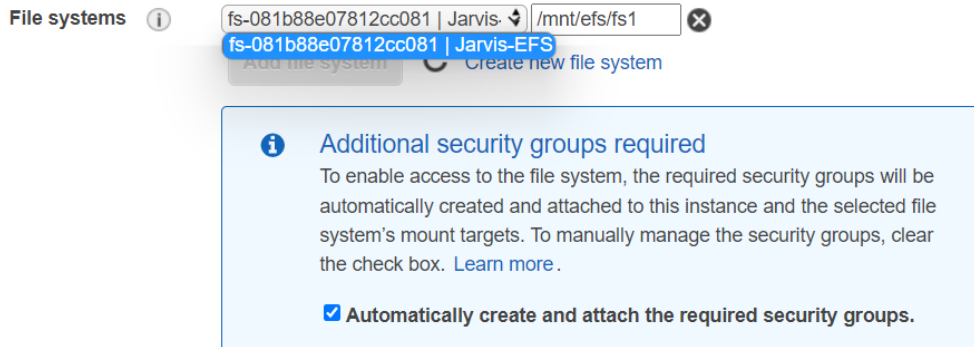
To enable access to the file system, the required security groups will be automatically created and attached to this instance and the selected file system's mount targets. To manually manage the security groups, clear the check box. [Learn more](#).

☒ Automatically create and attach the required security groups.

Create a instance and Attach file system.



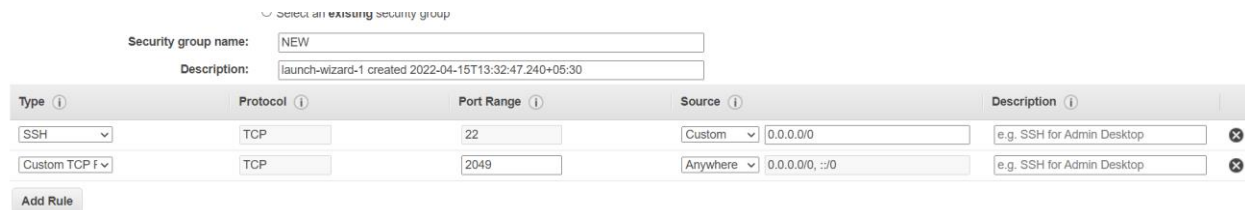
Attach File System or we can create new by default within a min.



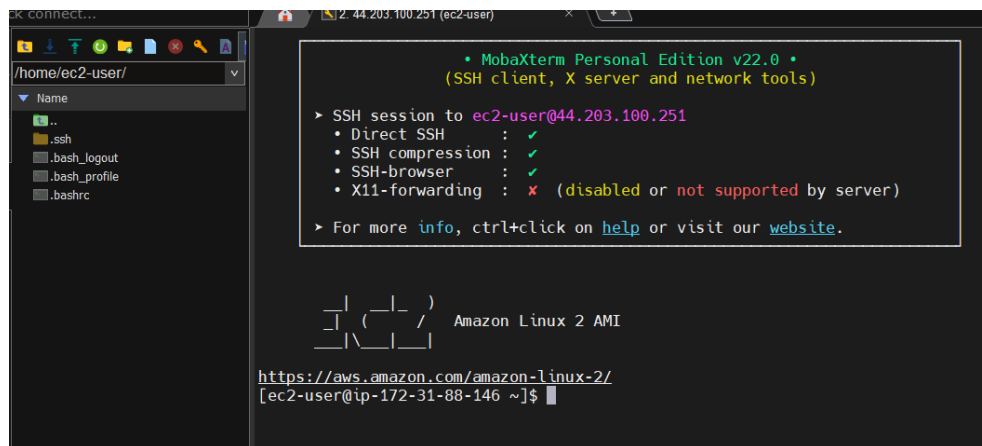
Add Security Group to instance which they have.

Inbound- Custom TCP→NFS → 2049 & SSH→ 22

Outbound- ALL Traffic →



Take SSH of newly created instance.



Make directory for mounting Jarvis-EFS

```
[ec2-user@ip-172-31-88-146 ~]$ sudo mkdir /somkuwar
[ec2-user@ip-172-31-88-146 ~]$ cd /somkuwar/
[ec2-user@ip-172-31-88-146 somkuwar]$
```

Copy and paste second link NFS-Client link to mount Jarvis-EFS to our /somkuwar directory

Attach

Mount your Amazon EFS file system on a Linux instance. [Learn more](#)

☒ Mount via DNS

☐ Mount via IP

Using the EFS mount helper:

```
sudo mount -t efs -o tls fs-081b88e07812cc081:/ efs
```

Using the NFS client:

```
sudo mount -t nfs4 -o nfsvers=4.1,rsz=1048576,wsz=1048576,hard,timeo=600,retr=2,rsize=1048576,fs-081b88e07812cc081.efs.us-east-1.amazonaws.com:/ efs
```

In Last “Change the path of Mounting” efs → /somkuwar

```
[ec2-user@ip-172-31-88-146 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsz=1048576,wsz=1048576,hard,timeo=600,retr=2,rsize=1048576,fs-081b88e07812cc081.efs.us-east-1.amazonaws.com:/ /somkuwar
```

Check if Mounted or not ? (Succsesfully mounted)

```
[ec2-user@ip-172-31-88-146 ~]$ df -hT
Filesystem                                Type      Size  Used Avail Use
% Mounted on
devtmpfs                                  devtmpfs  474M   0    474M   0
% /dev
tmpfs                                      tmpfs     483M   0    483M   0
% /dev/shm
tmpfs                                      tmpfs     483M 464K   483M   1
% /run
tmpfs                                      tmpfs     483M   0    483M   0
% /sys/fs/cgroup
/dev/xvda1                                xfs       8.0G  1.6G   6.5G  20
% /
127.0.0.1:/                                nfs4      8.0E   0    8.0E   0
% /mnt/efs/fs1
tmpfs                                      tmpfs     97M    0    97M   0
% /run/user/1000
fs-081b88e07812cc081.efs.us-east-1.amazonaws.com:/ nfs4      8.0E   0    8.0E   0
% /somkuwar
[ec2-user@ip-172-31-88-146 ~]$
```