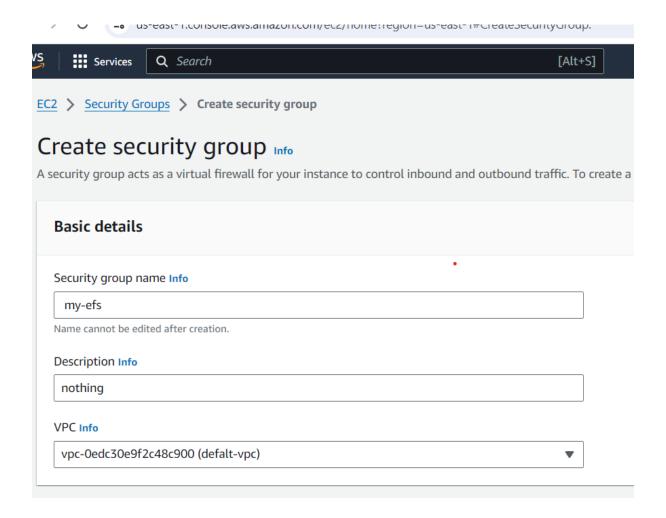
EBS and EFS

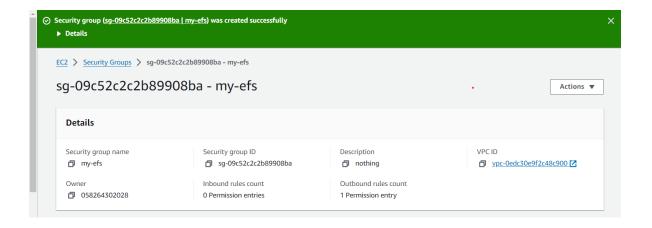
create an EFS and attach to two EC2 instance. create an EBS and attach it to EC2 instance.

1)EFS:

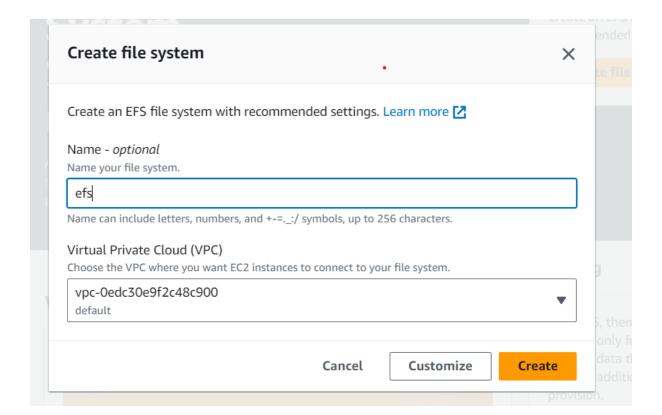
Step 1:

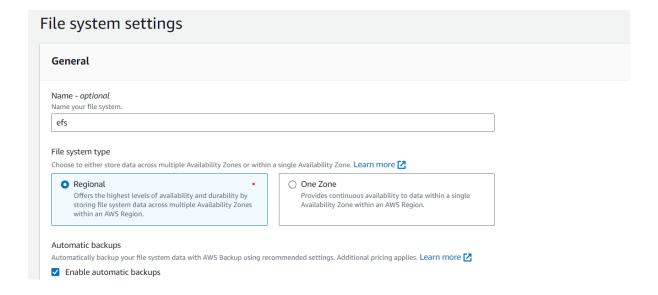
Create security group



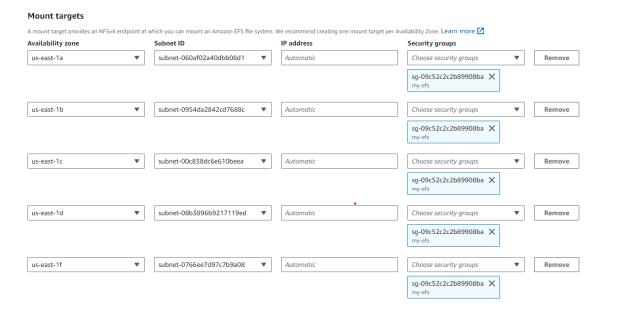


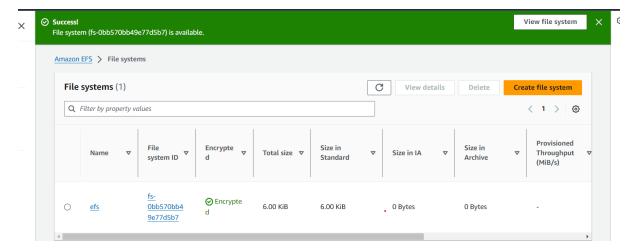
Step 2: create EFS



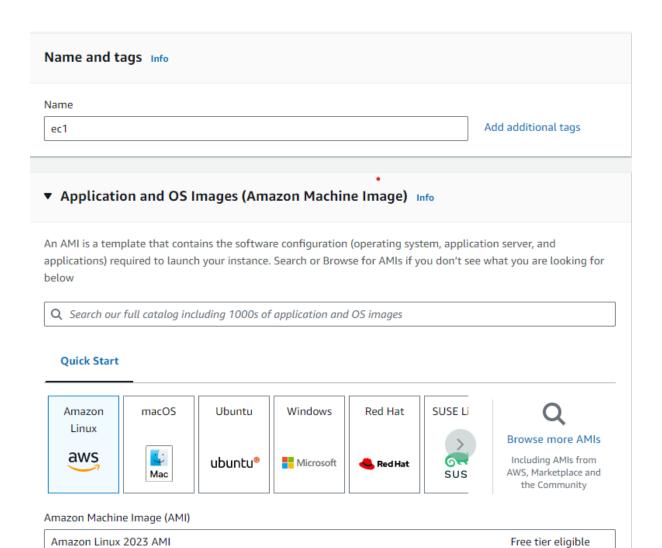


Customize security group that we created



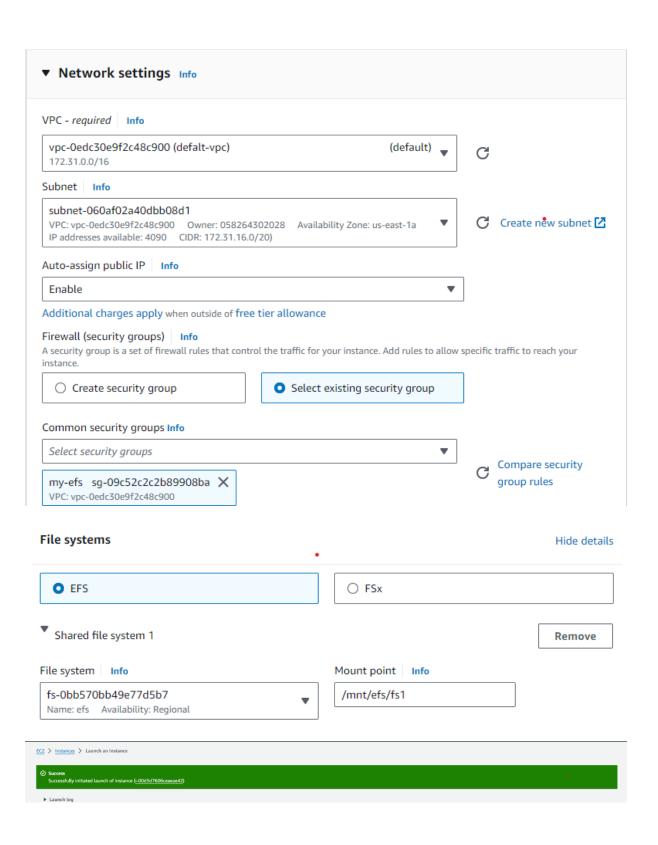


Step 3: launch instance

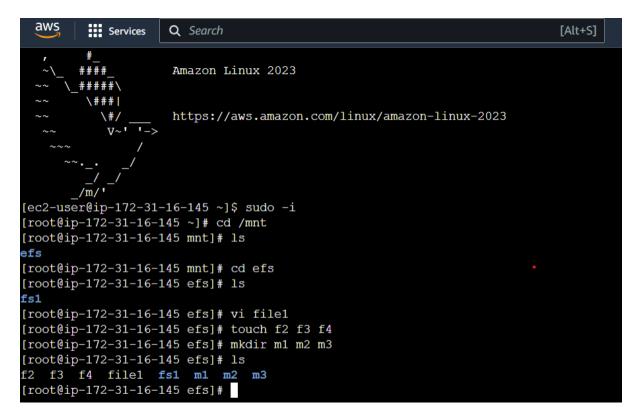


ami-04e5276ebb8451442 (64-bit (x86), uefi-preferred) / ami-09e060bed64ca0c04 (64-bit (Arm), uefi)

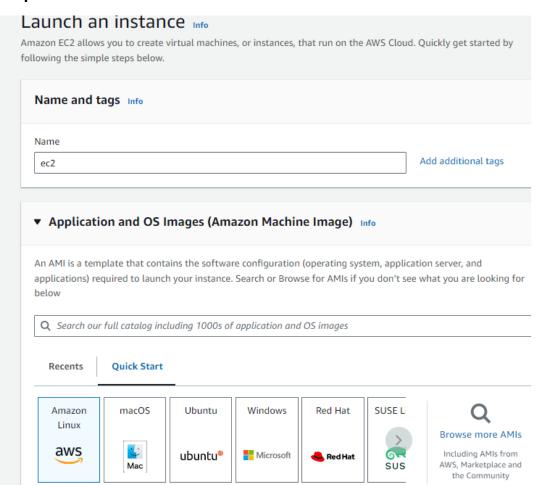
Virtualization: hvm ENA enabled: true Root device type: ebs



Step 4: ec1 instance connect to web



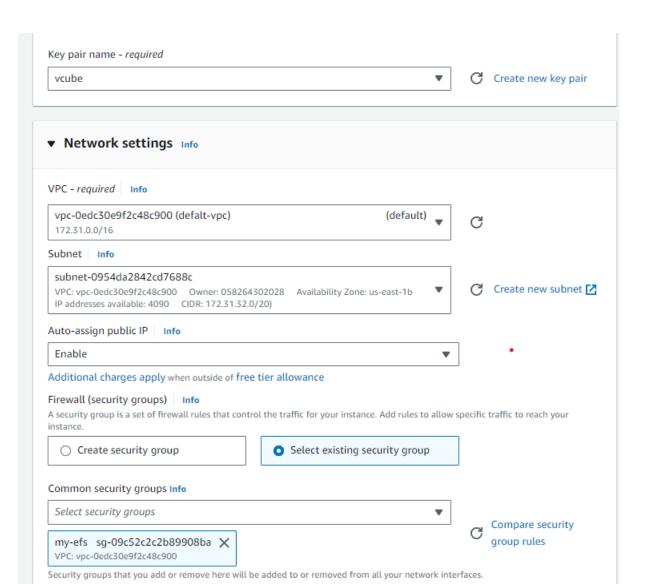
Step 5: launch another EC2 instance

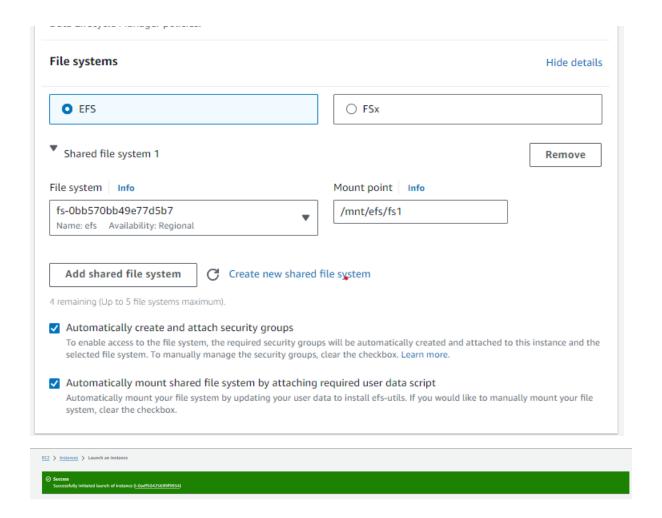


Launch an instance Info

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 Info								
[Name ec2						Add additional tags	
▼ 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								
	Q Search our full catalog including 1000s of application and OS images							
	Recents Quick Start							
	Amazon Linux	macOS	Ubuntu	Windows	Red Hat	SUSE Li	Q Browse more AMIs	
	aws	Mac	ubuntu®	Microsoft	Red Hat	sus	Including AMIs from AWS, Marketplace and the Community	





Step 6: ec2 instance connect to web

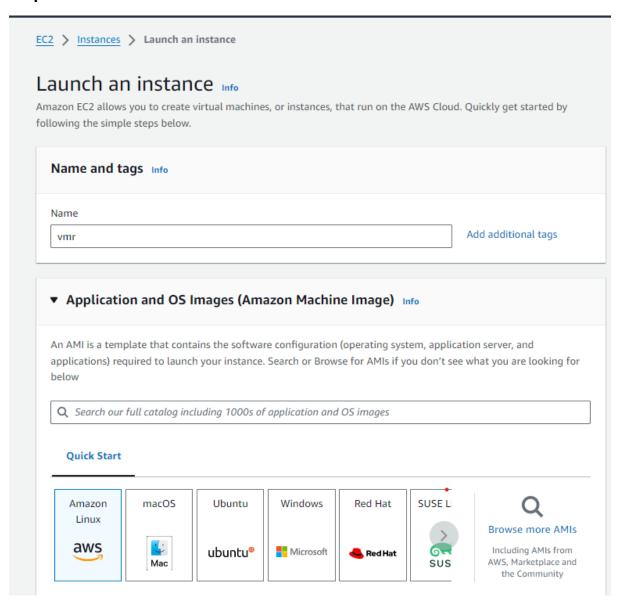
```
Amazon Linux 2023
                         https://aws.amazon.com/linux/amazon-linux-2023
Last login: Thu Apr 18 19:23:38 2024 from 18.206.107.28
[ec2-user@ip-172-31-41-130 \sim]$ sudo -i
[root@ip-172-31-41-130 ~] # cd /mnt
[root@ip-172-31-41-130 mnt]# ls
efs
[root@ip-172-31-41-130 mnt]# cd efs
[root@ip-172-31-41-130 efs]# ls
fs1
[root@ip-172-31-41-130 efs]# cd fs1
[root@ip-172-31-41-130 fs1]# ls
f2 f3 f4 file1 fs m1 m2 m3 m4 [root@ip-172-31-41-130 fs1]# mkdir m4
mkdir: cannot create directory 'm4': File exists
[root@ip-172-31-41-130 fs1]# touch fs
[root@ip-172-31-41-130 fs1]# ls
f2 f3 f4 file1 fs m1 m2 m3 m4
[root@ip-172-31-41-130 fs1]# vi file2
[root@ip-172-31-41-130 fs1]#
```

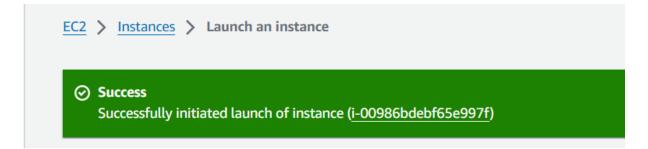
2)EBS:

Elastic Block Storage

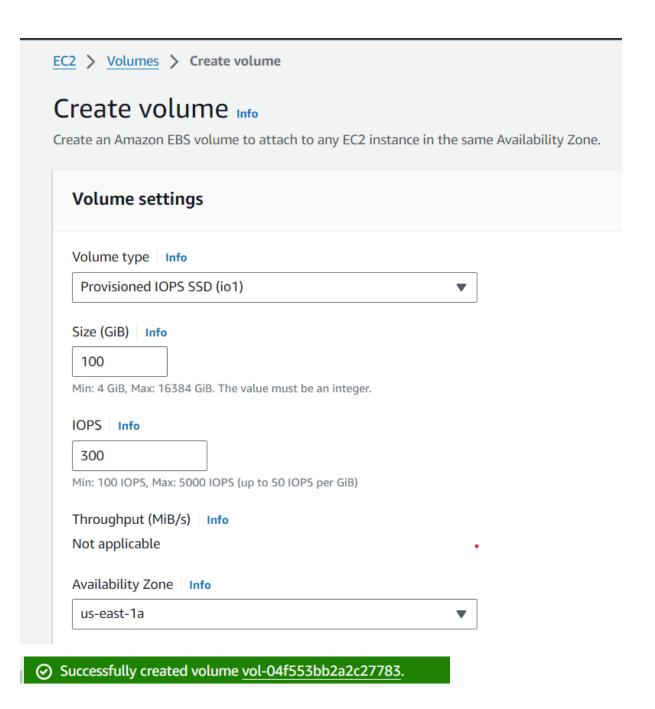
Create an amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Step 1: create and launch instance

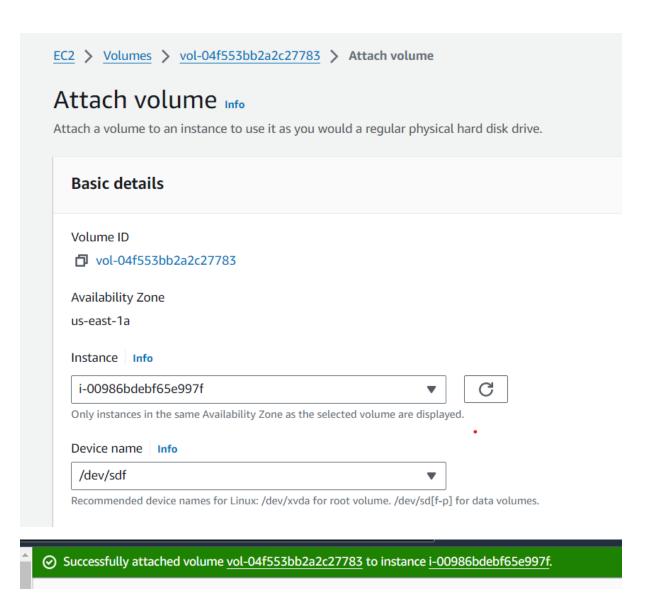




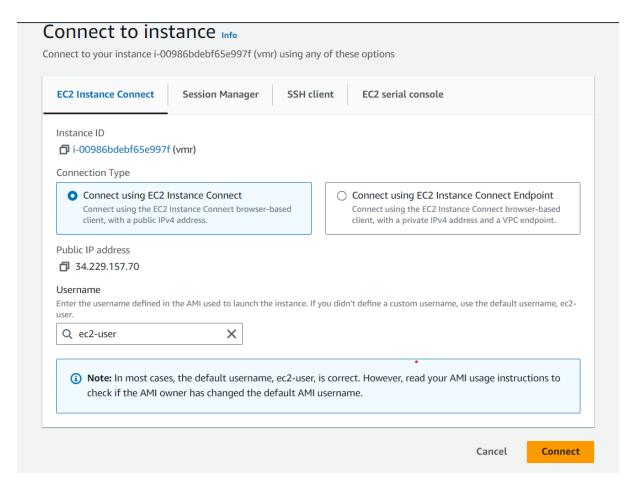
Step 2: create volume



Step 3: attach volume to ec2 instance



Step 4: ec2 instance connect to web



```
aws
         Services
                     Q Search
                                                                             [Alt+S]
                      Amazon Linux 2023
         \###|
                      https://aws.amazon.com/linux/amazon-linux-2023
                <del>-</del>->
Gast login: Fri Apr 19 18:58:42 2024 from 18.206.107.28
[ec2-user@ip-172-31-27-22 ~]$ sudo -i
[root@ip-172-31-27-22 ~]# df -h
                Size Used Avail Use% Mounted on
Filesystem
devtmpfs
                            4.0M
                4.0M
                          0
                                    0% /dev
mpfs
                475M
                             475M
                                    0% /dev/shm
mpfs
                      2.9M
                                    2% /run
                190M
                             188M
/dev/xvda1
                8.0G
                             6.5G
                                   19% /
                       1.5G
tmpfs
                475M
                         0
                             475M
                                    0% /tmp
/dev/xvda128
                 10M
                      1.3M
                             8.7M
                                   13% /boot/efi
/dev/xvdf
                100G
                       746M
                             100G
                                    1% /root/madhu/vcube122
                                    0% /run/user/1000
tmpfs
                 95M
                          0
                              95M
[root@ip-172-31-27-22 ~] # mkfs -t xfs /dev/xvdf
mkfs.xfs: /dev/xvdf contains a mounted filesystem
Usage: mkfs.xfs
'* blocksize */
                         [-b size=num]
/* config file */
                         [-c options=xxx]
* metadata */
                         [-m crc=0|1,finobt=0|1,uuid=xxx,rmapbt=0|1,reflink=0|1,
                             inobtcount=0|1,bigtime=0|1]
                         [-d agcount=n,agsize=n,file,name=xxx,size=num,
 * data subvol */
                             (sunit=value, swidth=value|su=num, sw=num|noalign),
                             sectsize=num
/* force overwrite */
```

i-00986bdebf65e997f (vmr)

PublicIPs: 34.229.157.70 PrivateIPs: 172.31.27.22

- us cust reconsole awarding on confidence confidence confidence as the cust recons

```
aws
         Services
                     Q Search
                                                                                [Alt+S]
                              sunit=value|su=num,sectsize=num,lazy-count=0|1]
* label */
                          [-L label (maximum 12 characters)]
* naming */
                          [-n size=num, version=2|ci, ftype=0|1]
/* no-op info only */
                          [-N]
* prototype file */
                          [-p fname]
/* quiet */
                          [-q]
                          [-r extsize=num, size=num, rtdev=xxx]
/* realtime subvol */
  sectorsize */
                          [-s size=num]
/* version */
                          [-V]
                         devicename
<devicename> is required unless -d name=xxx is given.
<num> is xxx (bytes), xxxs (sectors), xxxb (fs blocks), xxxk (xxx KiB),
      xxxm (xxx MiB), xxxg (xxx GiB), xxxt (xxx TiB) or xxxp (xxx PiB).
<value> is xxx (512 byte blocks).
[root@ip-172-31-27-22 ~]# file -s /dev/xvdf
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
[root@ip-172-31-27-22 ~]# mkdir -p madhu/vcube122
[root@ip-172-31-27-22 ~]# mount /dev/xvdf madhu/vcube122
mount: /root/madhu/vcube122: /dev/xvdf already mounted on /root/madhu/vcube122.
[root@ip-172-31-27-22 ~]# df -h
Filesystem
                 Size Used Avail Use% Mounted on
devtmpfs
                 4.0M
                          0 4.0M
                                     0% /dev
tmpfs
                 475M
                          0 475M
                                     0% /dev/shm
mpfs
                 190M 2.9M 188M
                                     2% /run
                                    19% /
/dev/xvda1
                 8.0G 1.5G 6.5G
                 475M
                             475M
                                     0% /tmp
                          0
mpfs
dev/xvda128
                  10M
                       1.3M 8.7M
                                    13% /boot/efi
                                     1% /root/madhu/vcube122
dev/xvdf
                 100G
                       746M
                             100G
                               95M
                                     0% /run/user/1000
mpfs
                  95M
                          0
[root@ip-172-31-27-22 ~]# cd madhu/vcube122
[root@ip-172-31-27-22 vcube122]# ls
file1
[root@ip-172-31-27-22 vcube122]#
```

i-00986bdebf65e997f (vmr)

PublicIPs: 34.229.157.70 PrivateIPs: 172.31.27.22