

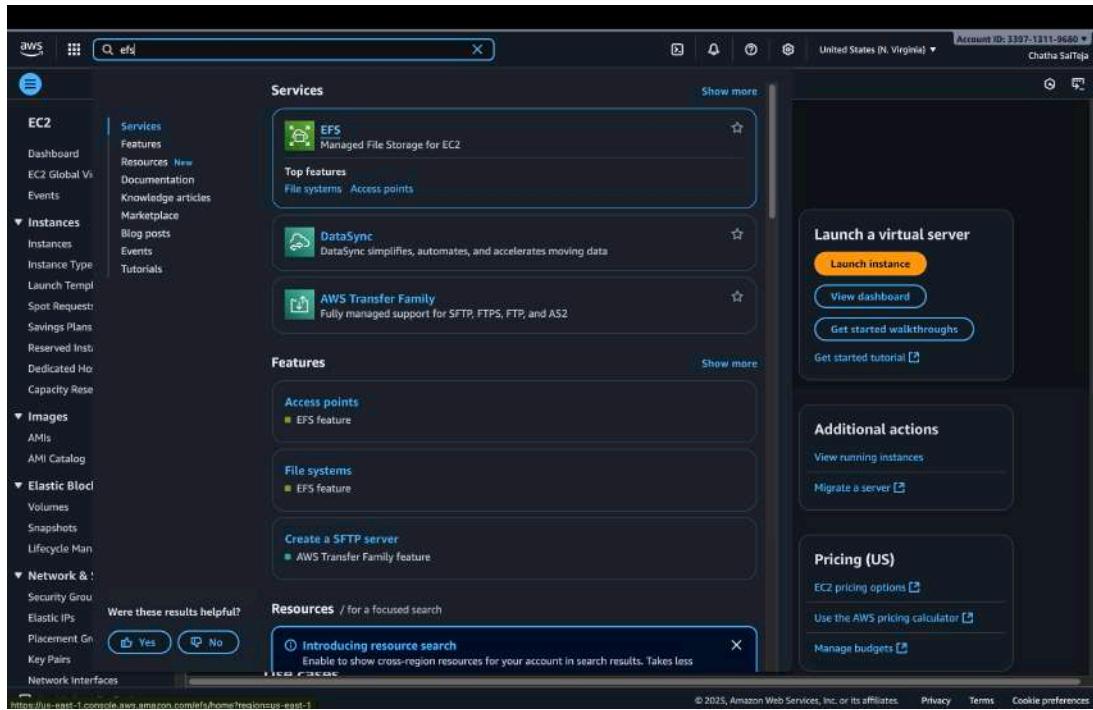
Assignment

Tasks To Be Performed:

1. Create an EFS and connect it to 3 different EC2 instances. Make sure that all instances have different operating systems. For instance, Ubuntu, Red Hat Linux and Amazon Linux 2.

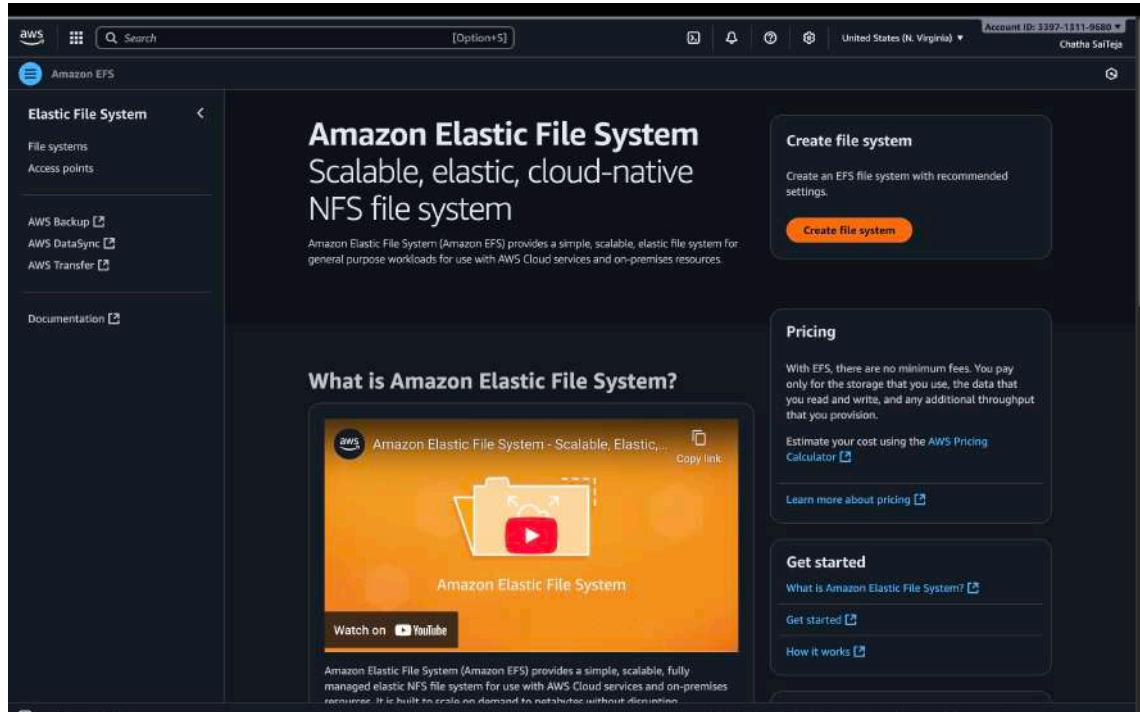
Step-By-Step Procedure:-

Step 1:- Open AWS Console , Sign in and search for EFS(Elastic File System)



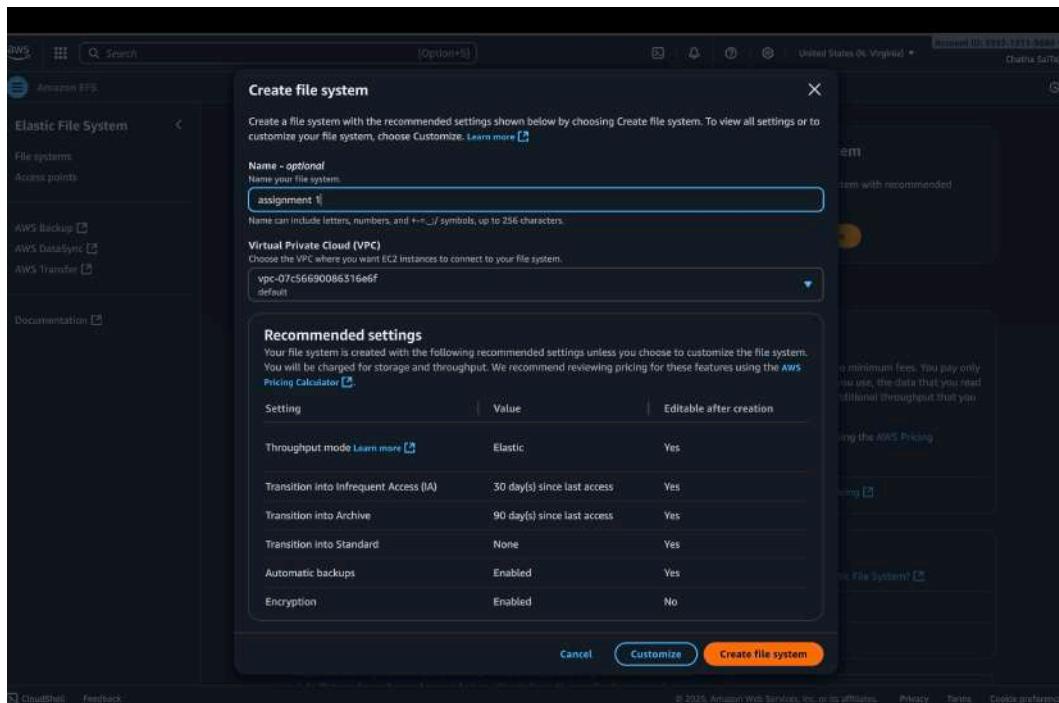
Search for EFS In Console

Step 2:- Go to EFS , then You can see “Create File System” click on it.



EFS Interface

Step 3:- Give File System name (like anything you want to give)and other details or else you can customize the EFS, then Click on Create File system.



Caption

Step 4:- As we created EFS ,now we have to create 3 instances with different OS(operating systems) - “Ubuntu”, “Amazon Linux”, “Red Hat”

Step 5:- Before Creating the Instances ,Go to File System details, Click on Networks ,in that Check for Security Groups then Change the Security group inbound rules to “All Traffic” and “Anywhere IPV4”

Availability zone (AZ-ID)	Mount target ID	Subnet ID	VPC ID	Mount target state	IPv4 address	IPv6 address	Network interface ID	Security groups
us-east-1a (use1-az2)	fsmnt-01ad659b748a032fb	subnet-0f48341bf780d262d	vpc-07c56690086316e6f	Available	172.31.92.9	N/A	eni-0548478e86cce31e5	sg-0ee4964a5d8ad971b (default)
us-east-1b (use1-az4)	fsmnt-0c943b4dcfdccdd6fe	subnet-0af5a50a46a1826e1	vpc-07c56690086316e6f	Available	172.31.25.1	6	eni-0e3159e4ee631c59b	sg-0ee4964a5d8ad971b (default)
us-east-1c (use1-az5)	fsmnt-0bed20f0deff55a840	subnet-02cd8008ff2739e5a0	vpc-07c56690086316e6f	Available	172.31.42.7	1	eni-0d8c6fa2980763961	sg-0ee4964a5d8ad971b (default)
us-east-1d (use1-az1)	fsmnt-076d581b0a015dc68	subnet-0643510389b767477	vpc-07c56690086316e6f	Available	172.31.0.12	1	eni-059eb7d1865840629	sg-0ee4964a5d8ad971b (default)
us-east-1f (use1-az5)	fsmnt-0e18b2fb4670e1a46	subnet-0a1f17210d-a41414	vpc-07c56690086316e6f	Available	172.31.78.1	81	eni-01f170ad5ba794e0e	sg-0ee4964a5d8ad971b

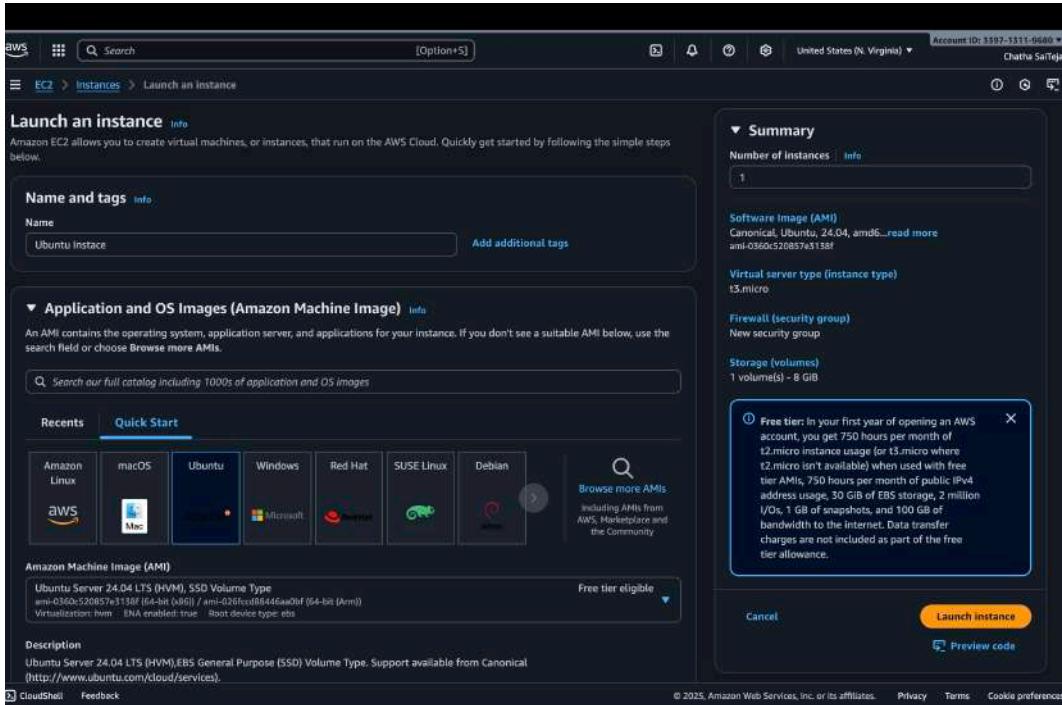
Checking Security Groups

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
-	All traffic	All	All	Anyw...	0.0.0.0/0

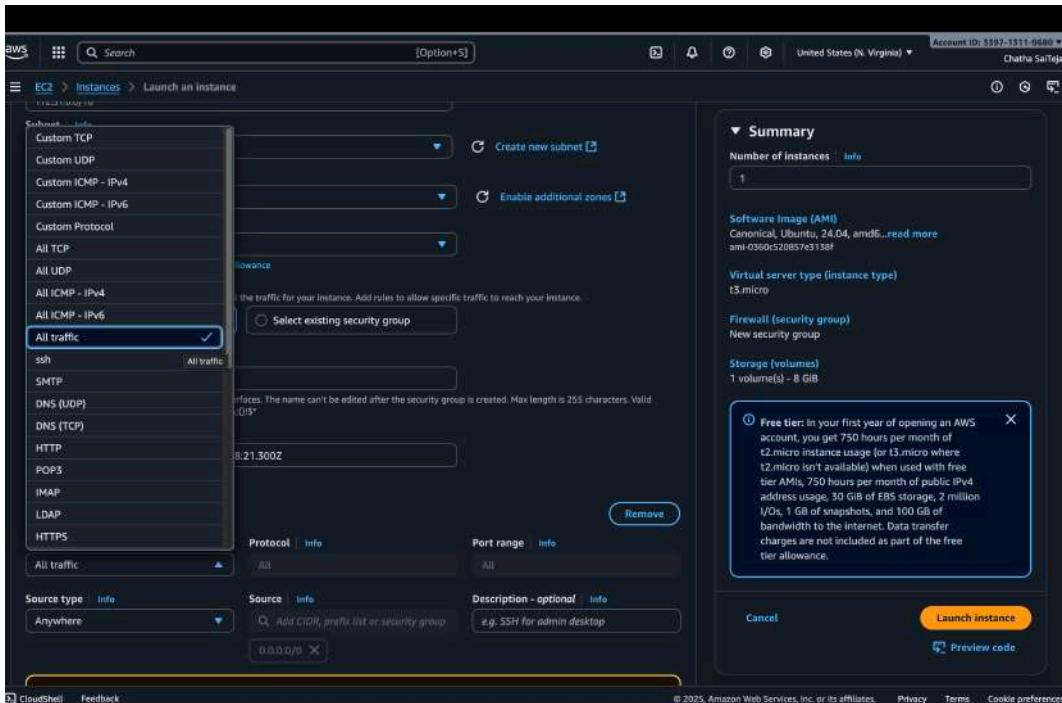
⚠ Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Editing Inbound rules

Step 6- Now we have to create the Instances, lets start with Instance1(Ubuntu),while creating the instance edit the inbound rules(in security groups) to allow “All Traffic “.



Creating Instance1(UBUNTU)



Edit the Inbound rules

Step 7:- Create two more instances(Amazon Linux, RedHat Linux) same as above by editing inbound rules of their Security groups.

The screenshot shows the 'Launch an instance' wizard in the AWS EC2 console. The 'Name and tags' section has 'Amazon Linux Instance' selected. In the 'Application and OS Images (Amazon Machine Image)' section, 'Amazon Linux' is chosen from the 'Recent' list. The 'Description' section notes that Amazon Linux 2023 (kernel-6.1) is a modern, general purpose Linux-based OS. The 'Summary' panel on the right shows one instance being launched, using the 'Amazon Linux 2023 AMI' and 't3.micro' instance type. A tooltip provides information about the free tier. The bottom right contains 'Launch instance' and 'Preview code' buttons.

Instance 2(Amazon Linux)

The screenshot shows the 'Launch an instance' wizard in the AWS EC2 console. The 'Name and tags' section has 'Red Hat Instance' selected. In the 'Application and OS Images (Amazon Machine Image)' section, 'Red Hat' is chosen from the 'Recent' list. The 'Description' section notes that Red Hat Enterprise Linux version 10 (HVM), EBS General Purpose (SSD) Volume Type is selected. The 'Summary' panel on the right shows one instance being launched, using the 'Provided by Red Hat, Inc.' AMI and 't3.micro' instance type. A tooltip provides information about the free tier. The bottom right contains 'Launch instance' and 'Preview code' buttons.

Instance 3(Red Hat)

Step 8:- Connect the first Instance (UBUNTU) and run the following commands to attach the instance to EFS

Commands:- sudo apt-get update

```
sudo apt install nfs-common  
mkdir efs
```

The screenshot shows two terminal sessions in AWS CloudShell. The top session is for a Ubuntu instance (Ubuntu 22.04 LTS) with IP 3.94.190.168. It displays the output of the 'apt-get update' command, which lists numerous packages from the 'noble' repository. The bottom session is also for the same Ubuntu instance, showing the execution of 'sudo apt-get update' followed by 'sudo mkdir efs'. Both sessions include the AWS CloudShell interface at the top.

```
ubuntu@ip-172-31-19-80:~$ sudo apt-get update  
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease [126 kB]  
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]  
Get:5 https://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/universe amd64 Packages [15.0 MB]  
Get:6 https://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/universe Translation-en [5982 kB]  
Get:7 https://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/universe amd64 Components [3871 kB]  
Get:8 https://security.ubuntu.com/ubuntu/noble-security/main amd64 Packages [1171 kB]  
Get:9 https://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/universe amd64 c-n-f Metadata [301 kB]  
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/multiverse amd64 Packages [269 kB]  
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/multiverse Translation-en [118 kB]  
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/multiverse amd64 Components [35.0 kB]  
Get:13 https://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/main amd64 Packages [8328 kB]  
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/main amd64 Packages [1443 kB]  
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/main Translation-en [282 kB]  
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/main amd64 Components [175 kB]  
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/main amd64 c-n-f Metadata [15.3 kB]  
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/universe amd64 Packages [1485 kB]  
Get:19 http://security.ubuntu.com/ubuntu/noble-security/main Translation-en [198 kB]  
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/universe Translation-en [299 kB]  
Get:21 http://security.ubuntu.com/ubuntu/noble-security/main amd64 Components [21.0 kB]  
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-security/main Translation-en [574 kB]  
Get:23 http://security.ubuntu.com/ubuntu/noble-security/universe amd64 Packages [880 kB]  
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/universe amd64 Components [378 kB]  
i-044197889a12c3912 (Ubuntu Instance)  
PublicIPs: 3.94.190.168 PrivateIPs: 172.31.19.80  
CloudShell Feedback © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences  
ubuntu@ip-172-31-19-80:~$ sudo mkdir efs  
ubuntu@ip-172-31-19-80:~$ ls  
ubuntu@ip-172-31-19-80:~$ i-044197889a12c3912 (Ubuntu Instance)  
PublicIPs: 3.94.190.168 PrivateIPs: 172.31.19.80  
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```

Step 9:- Attach the instance to EFS by pasting the command from efs attach button where we have an option mount via dns or mount via ip, we prefer mount via ip copy the command and paste in the Ubuntu terminal .

Copy the Command

```

aws [Option+S] Search United States (N. Virginia) Account ID: 3387-1111-9860 Chatra Saitaja

Info: Not creating home directory '/var/lib/nfs'.
Created symlink /etc/systemd/system/multi-user.target.wants/nfs-client.target -> /usr/lib/systemd/system/nfs-client.target.
Created symlink /etc/systemd/system/remote-fs.target.wants/nfs-client.target -> /usr/lib/systemd/system/nfs-client.target.
auth-rpcgss-module.service is a disabled or a static unit, not starting it.
nfs-idmpd.service is a disabled or a static unit, not starting it.
nfs-utils.service is a disabled or a static unit, not starting it.
proc-fs-n怠务service is a disabled or a static unit, not starting it.
rpc-gssd.service is a disabled or a static unit, not starting it.
rpc-statd-notify.service is a disabled or a static unit, not starting it.
rpc-statd.service is a disabled or a static unit, not starting it.
rpc-svcgssd.service is a disabled or a static unit, not starting it.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu9.5) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-19-80:~$ mkdir efs
ubuntu@ip-172-31-19-80:~$ ls
efs
ubuntu@ip-172-31-19-80:~$ df -h
Filesystem      Size  Used Avail Mounted on
/dev/root       6.8G  2.0G  4.8G  30% /
tmpfs          458M   0  458M  0% /dev/shm
tmpfs          183M  904K  182M  1% /run
tmpfs          5.0M   0  5.0M  0% /run/lock
efivars         128K  3.6K  120K  3% /sys/firmware/efi/efivars
/dev/vmem0n1p16 881M  87M  733M  11% /boot
/dev/vmem0n1p15 105M  6.2M  99M  6% /boot/efi
tmpfs          92M   12K  92M  1% /run/user/1000
172.31.92.9:/    8.0E   0  8.0E  0% /home/ubuntu/efs
ubuntu@ip-172-31-19-80:~$ i-044197889a12c3912 (Ubuntu Instance)
PublicIP: 3.94.190.168 PrivateIP: 172.31.19.80
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```

Instance1 Mounted with EFS

Step 10:- Connect the Second Instance (Amazon Linux) and run the following commands to attach the instance to EFS

Commands:- sudo yum update

sudo yum install nfs-utils
mkdir efs

```

aws [Option+S] Search United States (N. Virginia) Account ID: 3387-1111-9860 Chatra Saitaja

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

(ec2-user@ip-172-31-23-111 ~)$ sudo yum update
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
Nothing to do.
Complete!
(ec2-user@ip-172-31-23-111 ~)$ sudo yum install nfs-utils
Last metadata expiration check: 0:00:31 ago on Fri Sep 26 07:18:00 2025.
Package nfs-utils-1:2.5.4-2.rc3.amzn2023.0.3.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
(ec2-user@ip-172-31-23-111 ~)$ mkdir efs
(ec2-user@ip-172-31-23-111 ~)$ ls
efs
(ec2-user@ip-172-31-23-111 ~)$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 172.31.92.9:/ efs
(ec2-user@ip-172-31-23-111 ~)$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0  4.0M  0% /dev
tmpfs          453M   0  453M  0% /dev/shm
tmpfs          181M  472K  181M  1% /run
/dev/vmem0n1p1  8.0G  1.5G  6.5G 19% /boot
tmpfs          453M   0  453M  0% /tmp
/dev/vmem0n1p28 10M  1.3M  8.7M 13% /boot/efi
tmpfs          91M   0  91M  0% /run/user/1000
172.31.92.9:/    8.0E   0  8.0E  0% /home/ec2-user/efs
(ec2-user@ip-172-31-23-111 ~)$ i-0ba7dfa12cb04a6a6 (Amazon Linux Instance)
PublicIP: 54.90.164.250 PrivateIP: 172.31.23.111
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```

Instance 2 mounted with EFS

- * Copy the command same as in instance 1 to mount the instance 2 with EFS

Step 11:- Connect the Third Instance (Red Hat Linux) and run the following commands to attach the instance to EFS

Commands:- sudo yum update

```
sudo yum install nfs-utils
mkdir efs
```

- * Red hat Linux should not directly connect the instance we should connect it through ssh client (terminal ,windows shell).
- * Same like above insatnces copy the command of Efs to mount the instance to Efs

```
[ec2-user@ip-172-31-27-36 ~]$ sudo yum update
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to register.

Red Hat Enterprise Linux 10 for x86_64 - AppStream from RHUI (RPMs)           150 kB/s | 3.2 MB   00:21
Red Hat Enterprise Linux 10 for x86_64 - BaseOS from RHUI (RPMs)                95 kB/s | 25 MB    04:24
Red Hat Enterprise Linux 10 Client Configuration                           3.0 kB/s | 2.0 kB   00:00
Dependencies resolved.

=====
Package          Architecture Version       Repository      Size
=====
Installing:
  kernel          x86_64      6.12.0-55.34.1.el10_0      rhel-10-baseos-rhui-rpms  469 k
  kernel-core     x86_64      6.12.0-55.34.1.el10_0      rhel-10-baseos-rhui-rpms  17 M
  kernel-modules  x86_64      6.12.0-55.34.1.el10_0      rhel-10-baseos-rhui-rpms  38 M
  kernel-modules-core x86_64  6.12.0-55.34.1.el10_0      rhel-10-baseos-rhui-rpms  28 M
Upgrading:
  NetworkManager  x86_64      1:1.52.0-7.el10_0      rhel-10-baseos-rhui-rpms  2.2 M
  NetworkManager-cloud-setup x86_64  1:1.52.0-7.el10_0      rhel-10-appstream-rhui-rpms 74 k
  NetworkManager-libnm  x86_64  1:1.52.0-7.el10_0      rhel-10-baseos-rhui-rpms  1.9 M
  NetworkManager-tui  x86_64  1:1.52.0-7.el10_0      rhel-10-baseos-rhui-rpms  231 k
  amd-gpu-firmware noarch    20250812-15.7.el10_0      rhel-10-appstream-rhui-rpms 29 M
  amd-ucode-firmware noarch    20250812-15.7.el10_0      rhel-10-baseos-rhui-rpms  445 k
  atheros-firmware  noarch    20250812-15.7.el10_0      rhel-10-baseos-rhui-rpms  37 M
  brcmfmac-firmware noarch    20250812-15.7.el10_0      rhel-10-baseos-rhui-rpms  9.6 M
  cirrus-audio-firmware noarch    20250812-15.7.el10_0      rhel-10-baseos-rhui-rpms  2.3 M
  dnf               noarch    4.20.0-14.el10_0      rhel-10-baseos-rhui-rpms  476 k
  dnf-data         noarch    4.20.0-14.el10_0      rhel-10-baseos-rhui-rpms  40 k
  gnutls          x86_64    3.8.9-9.el10_0.14      rhel-10-baseos-rhui-rpms  1.4 M
  intel-audio-firmware noarch    20250812-15.7.el10_0      rhel-10-baseos-rhui-rpms  3.3 M
  intel-gpu-firmware noarch    20250812-15.7.el10_0      rhel-10-appstream-rhui-rpms 8.9 M
  iwlwifi-dvm-firmware noarch    20250812-15.7.el10_0      rhel-10-baseos-rhui-rpms  1.9 M
  iwlwifi-mvm-firmware noarch    20250812-15.7.el10_0      rhel-10-baseos-rhui-rpms  64 M
=====
Warning: The unit file, source configuration file or drop-ins of gssproxy.service changed on disk. Run 'systemctl daemon-reload' to
reload units.

Warning: The unit file, source configuration file or drop-ins of gssproxy.service changed on disk. Run 'systemctl daemon-reload' to
reload units.

Installing      : sssd-nfs-idmap-2.10.2-3.el10_0.2.x86_64                               10/10
Running scriptlet: sssd-nfs-idmap-2.10.2-3.el10_0.2.x86_64                               10/10
Installed products updated.

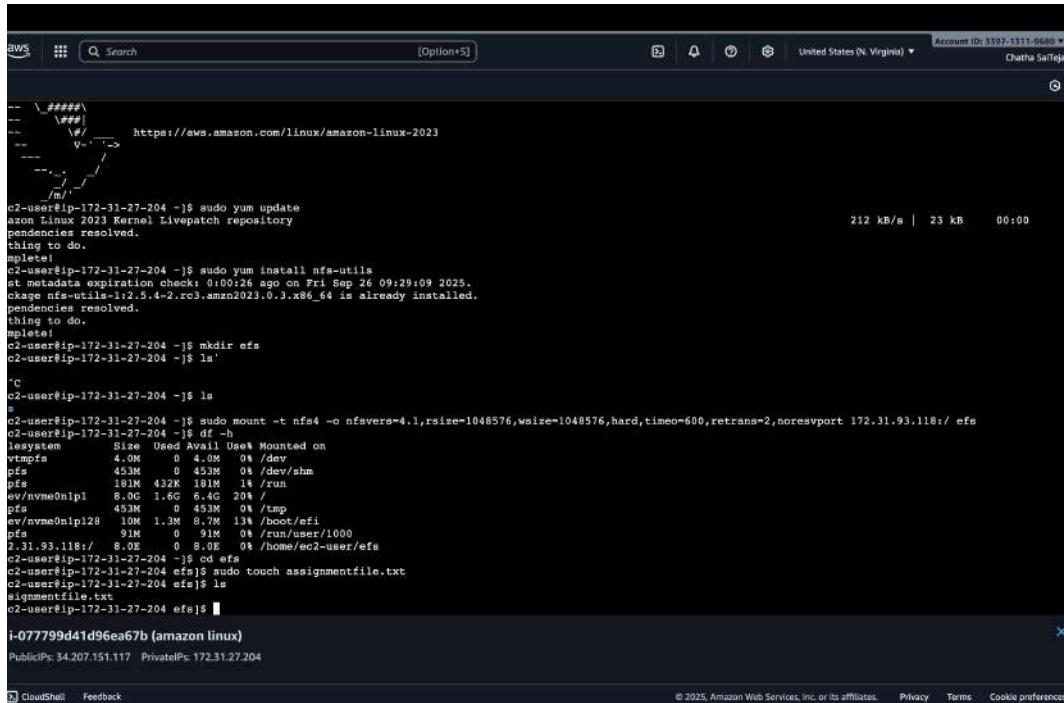
Installed:
  gssproxy-0.9.2-10.el10.x86_64          libev-4.33-14.el10.x86_64          libnfsidmap-1:2.8.2-3.el10.x86_64
  libtirpc-1.3.5-1.el10.x86_64          libertvo-libev-0.3.2-10.el10.x86_64      nfs-utils-1:2.8.2-3.el10.x86_64
  quota-1:4.09-9.el10.x86_64            quota-nls-1:4.09-9.el10.noarch        rpcbind-1.2.7-3.el10.x86_64
  sssd-nfs-idmap-2.10.2-3.el10_0.2.x86_64

Complete!
[ec2-user@ip-172-31-27-36 ~]$ mkdir efs
[ec2-user@ip-172-31-27-36 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 172.31.92.9:/efs
[ec2-user@ip-172-31-27-36 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/nvme0n1p3  9.8G  2.0G  7.9G  20% /
devtmpfs        4.0M   0  4.0M   0% /dev
tmpfs          454M   0  454M   0% /dev/shm
efivarsfs      128K  3.6K 120K   3% /sys/firmware/efi/efivars
tmpfs          182M  4.8M 177M   3% /run
tmpfs          1.0M   0  1.0M   0% /run/credentials/systemd-journald.service
/dev/nvme0n1p2  200M  8.4M 192M   5% /boot/efi
tmpfs          1.0M   0  1.0M   0% /run/credentials/getty@tty1.service
tmpfs          1.0M   0  1.0M   0% /run/credentials/serial-getty@ttyS0.service
tmpfs          91M   4.0K  91M   1% /run/user/1000
172.31.92.9:/  8.0E   0  8.0E   0% /home/ec2-user/efs
[ec2-user@ip-172-31-27-36 ~]$
```

Instance 3 Mounted to Efs

Step 12:- Now we mounted three instances to EFS and created directory named “efs”, so we create a file in one instance then it shows in all three instance without touching the instances.

- * So we create the file named as “assignmentfile.txt” In Amazon Linux Instance(Instance2) using command sudo touch assignmentfile.txt .
- * Now we can see the file in other two instances we can check by running the command “ls”.



```

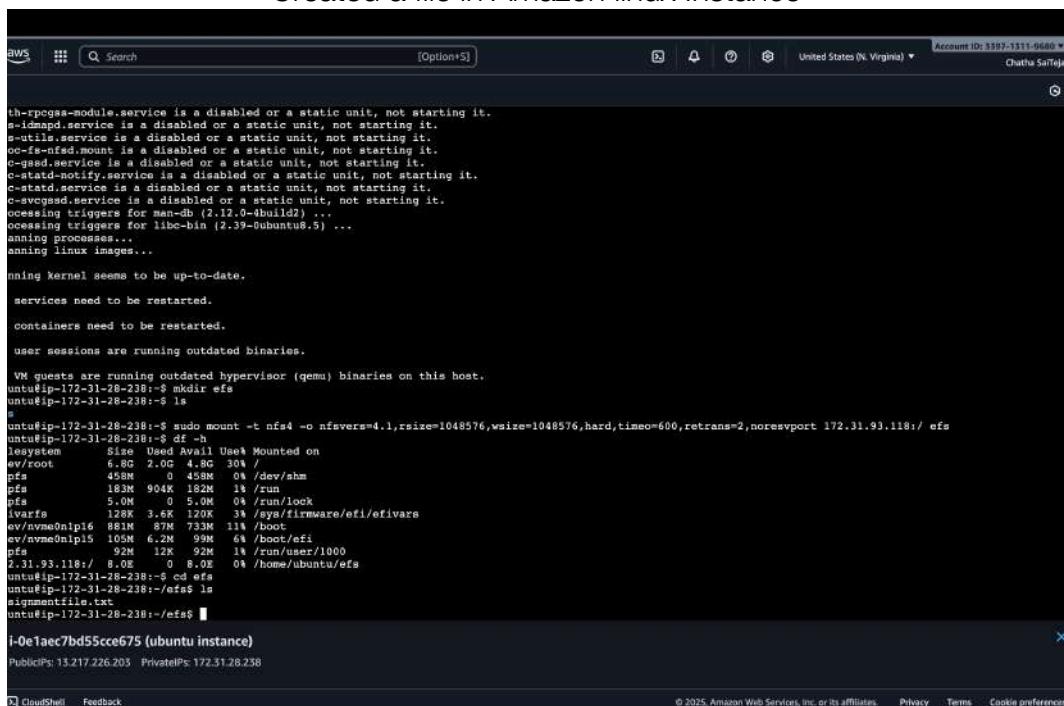
aws | Search [Option+S] Account ID: 3597-1311-0660
United States (N. Virginia) Chattha Satteja

-- #####
-- #####
-- https://aws.amazon.com/linux/amazon-linux-2023
-- #####
-- #####
c2-user@ip-172-31-27-204 ~$ sudo yum update
amazon Linux 2023 Kernel Livepatch repository
dependencies resolved.
thing to do.
mplete!
c2-user@ip-172-31-27-204 ~$ sudo yum install nfs-utils
at metadata expiration check: 0:00:26 ago on Fri Sep 26 09:29:09 2025.
cage nfs-utils-1:5.4-2.rc3.amzn2023.0.3.x86_64 is already installed.
dependencies resolved.
thing to do.
mplete!
c2-user@ip-172-31-27-204 ~$ mkdir efs
c2-user@ip-172-31-27-204 ~$ ls
'`c
c2-user@ip-172-31-27-204 ~$ ls
c2-user@ip-172-31-27-204 ~$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsiz
e=1048576,hard,timeo=600,retrans=2,noresvport 172.31.93.118:/ efs
c2-user@ip-172-31-27-204 ~$ df -h
Filesystem Size Used Avail Mounted on
vtmpfs 4.0M 0 4.0M 0 /dev
pfs 453M 0 453M 0 /dev/shm
pfs 181M 432K 181M 1% /run
ev/nvme0n1p1 8.0G 1.6G 6.4G 20% /
pfs 453M 0 453M 0 /tmp
ev/nvme0n1p128 10M 1.3M 8.7M 13% /boot/efi
pfs 9.0E 0 9.0E 0 /run/user/1000
c2-user@ip-172-31-27-204 ~$ cd efs
c2-user@ip-172-31-27-204 efs$ sudo touch assignmentfile.txt
c2-user@ip-172-31-27-204 efs$ ls
assignmentfile.txt
c2-user@ip-172-31-27-204 efs$ ls
i-077799d41d96ea67b (amazon linux)
PublicIP: 54.207.151.117 PrivateIP: 172.31.27.204

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```

Created a file in Amazon linux Instance



```

aws | Search [Option+S] Account ID: 3597-1311-0660
United States (N. Virginia) Chattha Satteja

th-spectr-module.service is a disabled or a static unit, not starting it.
ltsramd.service is a disabled or a static unit, not starting it.
s-utilis.service is a disabled or a static unit, not starting it.
oc-fs-nfad.mount is a disabled or a static unit, not starting it.
c-gasd.service is a disabled or a static unit, not starting it.
c-statad-notify.service is a disabled or a static unit, not starting it.
c-statad.service is a disabled or a static unit, not starting it.
c-swccssd.service is a disabled or a static unit, not starting it.
processing triggers for man-db (2.17.0-4ubuntu0.5) ...
processing triggers for libc-bin (2.39-0ubuntu0.5) ...
anning processes...
anning linux images...

nning kernel seems to be up-to-date.

services need to be restarted.

containers need to be restarted.

user sessions are running outdated binaries.

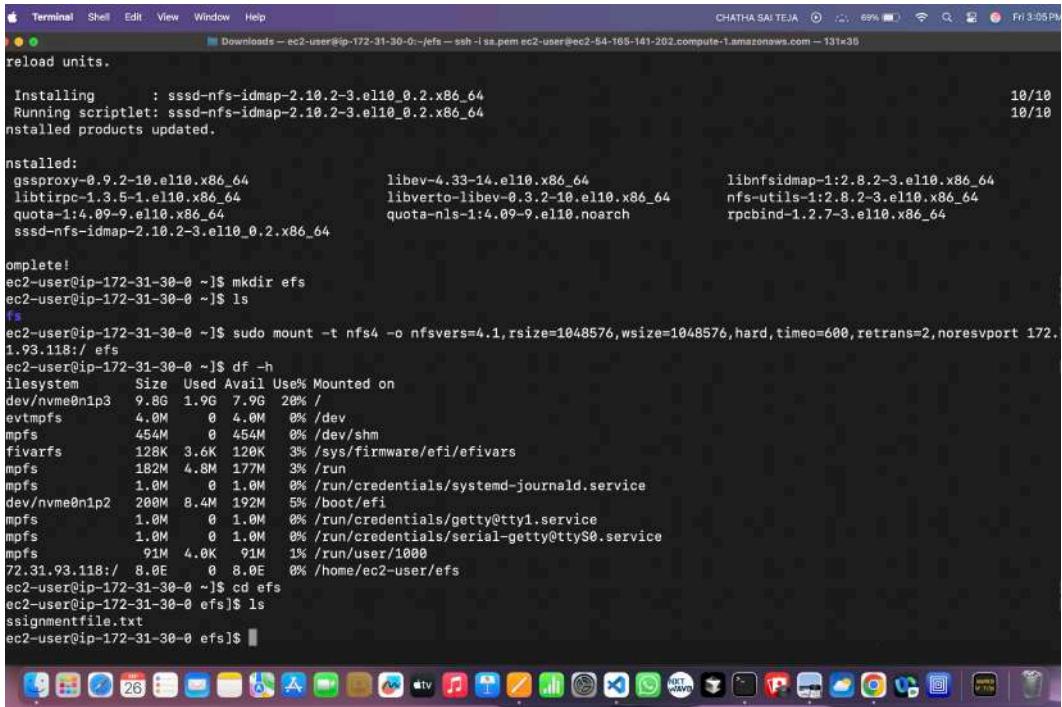
VM guests are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-172-31-28-238:~$ mkdir efs
ubuntu@ip-172-31-28-238:~$ ls
ubuntu@ip-172-31-28-238:~$ df -h
Filesystem Size Used Avail Mounted on
ev/root 6.8G 2.1G 3.0W 100% /
pfs 453M 0 453M 0 /dev/shm
pfs 183M 904K 182M 1% /run
pfs 5.0M 5.0M 0% /run/lock
lvarfs 128K 3.6K 120K 3% /sys/firmware/efi/efivars
ev/nvme0n1p16 881M 87M 733M 11% /boot
ev/nvme0n1p15 105M 6.2M 99M 6% /boot/efi
pfs 92M 12K 92M 1% /run/user/1000
2.31.93.118:/ 8.0E 0 8.0E 0% /home/ubuntu/efs
ubuntu@ip-172-31-28-238:~$ cd efs
ubuntu@ip-172-31-28-238:~/efs$ ls
assignmentfile.txt
ubuntu@ip-172-31-28-238:~/efs$ ls
i-0e1aec7bd55cce675 (ubuntu instance)
PublicIP: 13.217.226.203 PrivateIP: 172.31.28.238

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```

By running the command ls we can see the file in Ubuntu Instance



```
Terminal Shell Edit View Window Help
Downloads - ec2-user@ip-172-31-30-0:~/efs - ssh -i sa.pem ec2-user@ec2-54-165-141-202.compute-1.amazonaws.com - 131x35
CHATHA SAI TEJA 69% Fri 3:05PM
reload units.

Installing      : sssd-nfs-idmap-2.10.2-3.el10_0.2.x86_64
Running scriptlet: sssd-nfs-idmap-2.10.2-3.el10_0.2.x86_64
10/10
10/10
nstalled products updated.

nstable:
gssproxy-0.9.2-10.el10.x86_64          libev-4.33-14.el10.x86_64          libnfsidmap-1:2.8.2-3.el10.x86_64
libtirpc-1.3.5-1.el10.x86_64           libverto-libev-0.3.2-10.el10.x86_64        nfs-utils-1:2.8.2-3.el10.x86_64
quota-1:4.09-9.el10.x86_64            quota-nls-1:4.09-9.el10.noarch       rpcbind-1.2.7-3.el10.x86_64
sssd-nfs-idmap-2.10.2-3.el10_0.2.x86_64

omplete!
ec2-user@ip-172-31-30-0 ~]$ mkdir efs
ec2-user@ip-172-31-30-0 ~]$ ls
efs
ec2-user@ip-172-31-30-0 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 172.1.93.118:/efs
ec2-user@ip-172-31-30-0 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
dev/nvme0n1p3   9.8G  1.9G  7.9G  20% /
tmpfs          4.0M    0  4.0M  0% /dev
mpfs          454M    0  454M  0% /dev/shm
firmware        128K  3.6K  120K  3% /sys/firmware/efi/efivars
mpfs          182M  4.8M  177M  3% /run
mpfs          1.0M    0  1.0M  0% /run/credentials/systemd-journald.service
dev/nvme0n1p2   200M  8.4M  192M  5% /boot/efi
mpfs          1.0M    0  1.0M  0% /run/credentials/getty@tty1.service
mpfs          1.0M    0  1.0M  0% /run/credentials/serial-getty@ttyS0.service
mpfs          91M   4.0K  91M  1% /run/user/1000
72.31.93.118:/  8.0E    0  8.0E  0% /home/ec2-user/efs
ec2-user@ip-172-31-30-0 ~]$ cd efs
ec2-user@ip-172-31-30-0 efs]$ ls
assignmentfile.txt
ec2-user@ip-172-31-30-0 efs]$
```

By running the command `ls` we can see the file in Red Hat Linux Instance

Step 13:- The three instances are mounted to the Efs we created ,now the instances share the storage. Efs Is region Specific.