EC2 and EFS Assignment

Three EC2 Instances with different OS

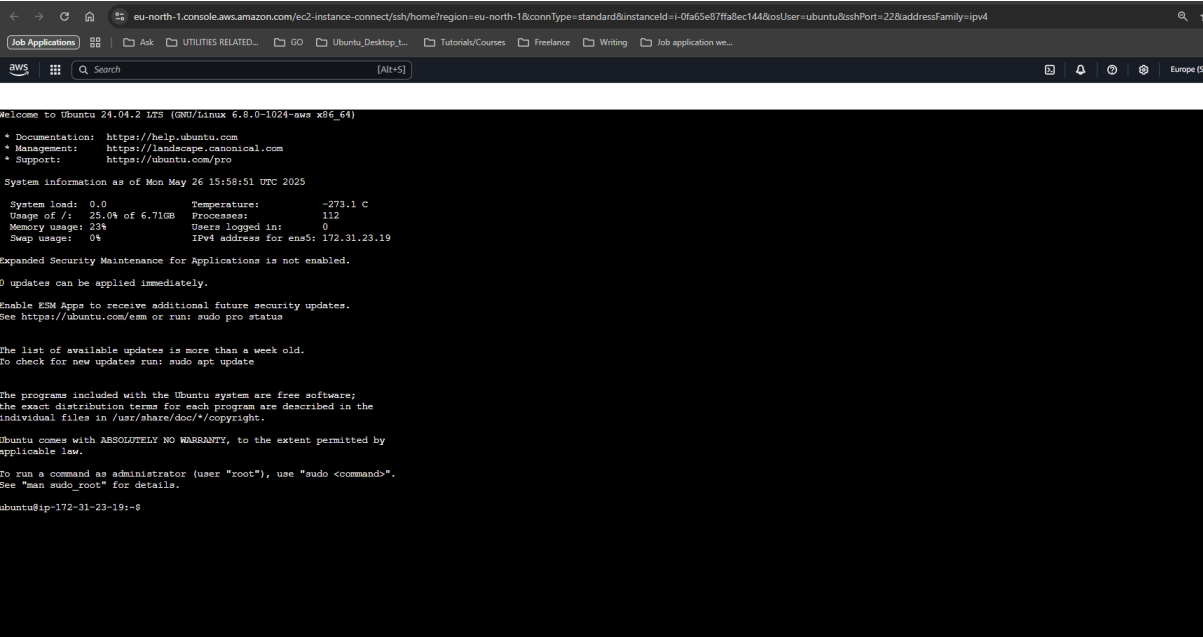## Amazon

RedHat

Ubuntu

Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1024-aws x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro

System information as of Mon May 26 15:58:51 UTC 2025

  System load: 0.0   Temperature: -273.1 C
  Usage of /:   25.0% of 6.71GB Processes: 112
  Memory usage: 23%   Users logged in: 0
  Swap usage: 0%   IPv4 address for ens5: 172.31.23.19

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-23-19:~$

i-0fa65e87ffa8ec144 (EC2-EFS-Assignment-Ubuntu-EC2)
PublicIPs: 56.228.9.212   PrivateIPs: 172.31.23.19

EFS
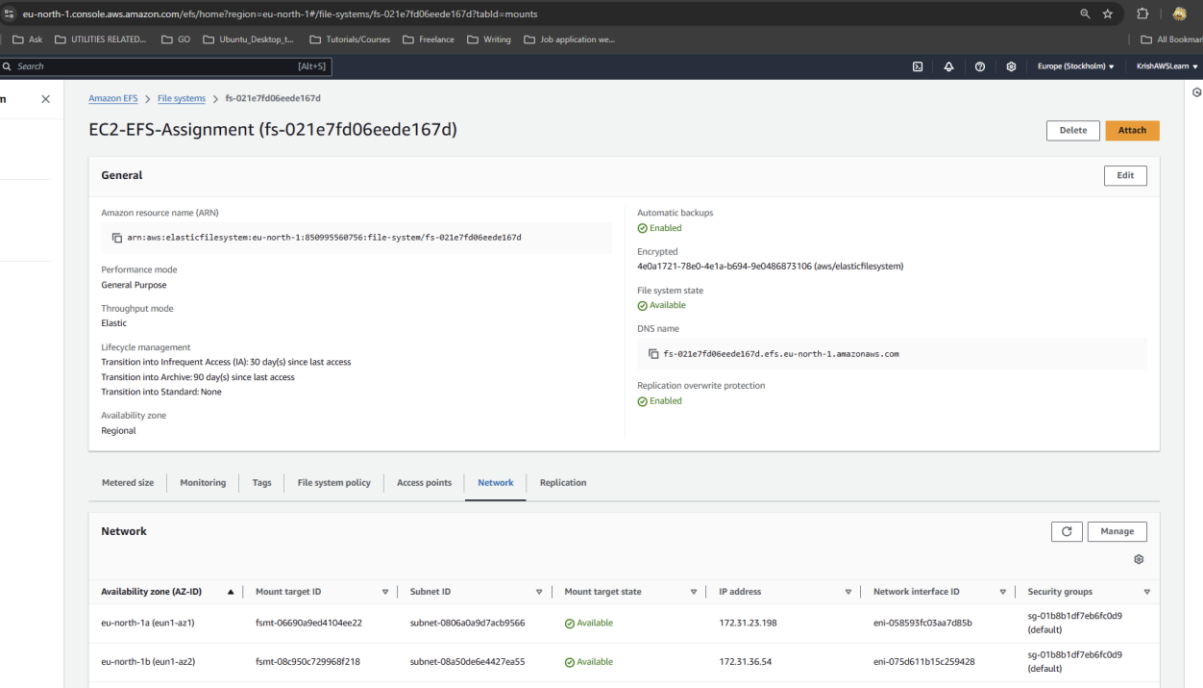
Mount to Ubuntu EC2

← → ⟳ ⌂ eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=eu-north-1&connType=standard&instanceId=i-0e0fbb0a7384678ac&osUser=ubuntu&sshPort=22&addressFamily=ipv4

Job Applications ⊞ | ☐ Ask ☐ UTILITIES RELATED... ☐ GO ☐ Ubuntu_Desktop_t... ☐ Tutorials/Courses ☐ Freelance ☐ Writing ☐ Job application we...

aws ⠿ Q Search   [Alt+S]   ⊡ ⬦ ⑦ ⚙ Euro

```
Need to get 400 kB of archives.
After this operation, 1416 kB of additional disk space will be used.
Get:1 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libnfsidmap1 amd64 1:2.6.4-3ubuntu5.1 [48.3 kB]
Get:2 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 rpcbind amd64 1.2.6-7ubuntu2 [46.5 kB]
Get:3 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 keyutils amd64 1.6.3-3build1 [56.8 kB]
Get:4 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nfs-common amd64 1:2.6.4-3ubuntu5.1 [248 kB]
Fetched 400 kB in 0s (1777 kB/s)
Selecting previously unselected package libnfsidmap1:amd64.
(Reading database ... 70560 files and directories currently installed.)
Preparing to unpack .../libnfsidmap1_1%3a2.6.4-3ubuntu5.1_amd64.deb ...
Unpacking libnfsidmap1:amd64 (1:2.6.4-3ubuntu5.1) ...
Selecting previously unselected package rpcbind.
Preparing to unpack .../rpcbind_1.2.6-7ubuntu2_amd64.deb ...
root@ip-172-31-19-100:/home/ubuntu/efs# cat test.txt
testing the NFS mounting - changed Ubuntu

root@ip-172-31-19-100:/home/ubuntu/efs# ||
```

Mount to Amazon EC2

```
root@ip-172-31-25-6:/home/x  ×   + ∨                                                                    –  □  ×
Package nfs-utils-1:2.5.4-2.rc3.amzn2023.0.3.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-25-6 ec2-user]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-021e7fd06eede167d.efs.eu-north-1.amazonaws.com:/ efs
mount.nfs4: mount point efs does not exist
[root@ip-172-31-25-6 ec2-user]# mkdir efs
[root@ip-172-31-25-6 ec2-user]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-021e7fd06eede167d.efs.eu-north-1.amazonaws.com:/ efs
[root@ip-172-31-25-6 ec2-user]# ls
efs
[root@ip-172-31-25-6 ec2-user]# cd efs
[root@ip-172-31-25-6 efs]# ls
test.txt
[root@ip-172-31-25-6 efs]# cat test.txt
testing the NFS mounting - changed Ubuntu

[root@ip-172-31-25-6 efs]# vi test.txt
[root@ip-172-31-25-6 efs]# cat test.txt
testing the NFS mounting - changed Ubuntu
testing the NFS mounting - changed Amazon

[root@ip-172-31-25-6 efs]# |
```

Mount to RedHat EC2

```
root@ip-172-31-24-233:/hom  ×   Windows PowerShell      ×   + ∨                                          –  □  ×
(9/10): rpcbind-1.2.7-3.el10.x86_64.rpm                                        4.7 MB/s | 63 kB    00:00
(10/10): sssd-nfs-idmap-2.10.2-3.el10_0.2.x86_64.rpm                           2.9 MB/s | 37 kB    00:00
-----------------------------------------------------------------------------------------------------------
Total                                                                          11 MB/s | 1.2 MB   00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :
  Installing       : libtirpc-1.3.5-1.el10.x86_64                                                       1/
  Installing       : libnfsidmap-1:2.8.2-3.el10.x86_64                                                  2/
  Running scriptlet: rpcbind-1.2.7-3.el10.x86_64                                                        3/
  Installing       : rpcbind-1.2.7-3.el10.x86_64                                                        3/
  Running scriptlet: rpcbind-1.2.7-3.el10.x86_64                                                        3/
Created symlink '/etc/systemd/system/multi-user.target.wants/rpcbind.service' → '/usr/lib/systemd/system/rpcbind.service'.
Created symlink '/etc/systemd/system/sockets.target.wants/rpcbind.socket' → '/usr/lib/systemd/system/rpcbind.socket'.

  Installing       : quota-nls-1:4.09-9.el10.noarch                                                     4/
  Installing       : quota-1:4.09-9.el10.x86_64                                                         5/
  Installing       : libev-4.33-14.el10.x86_64                                                          6/
  Installing       : libverto-libev-0.3.2-10.el10.x86_64                                                7/
  Running scriptlet: gssproxy-0.9.2-10.el10.x86_64                                                      8/
  Installing       : gssproxy-0.9.2-10.el10.x86_64                                                      8/
  Running scriptlet: gssproxy-0.9.2-10.el10.x86_64                                                      8/
  Running scriptlet: nfs-utils-1:2.8.2-3.el10.x86_64                                                    9/
  Installing       : nfs-utils-1:2.8.2-3.el10.x86_64                                                    9/
  Running scriptlet: nfs-utils-1:2.8.2-3.el10.x86_64                                                    9/
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'.

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/
  Running scriptlet: sssd-nfs-idmap-2.10.2-3.el10_0.2.x86_64                                            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    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

Complete!
[root@ip-172-31-24-233 ec2-user]# mkdir efs
[root@ip-172-31-24-233 ec2-user]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-021e7fd06eede167d.efs.eu-north-1.amazonaws.com:/ efs
[root@ip-172-31-24-233 ec2-user]# cd efs
[root@ip-172-31-24-233 efs]# ls
test.txt
[root@ip-172-31-24-233 efs]# cat test.txt
testing the NFS mounting - changed Ubuntu
testing the NFS mounting - changed Amazon

[root@ip-172-31-24-233 efs]# |
```