Module 4: Amazon EC2

Demo Document 6

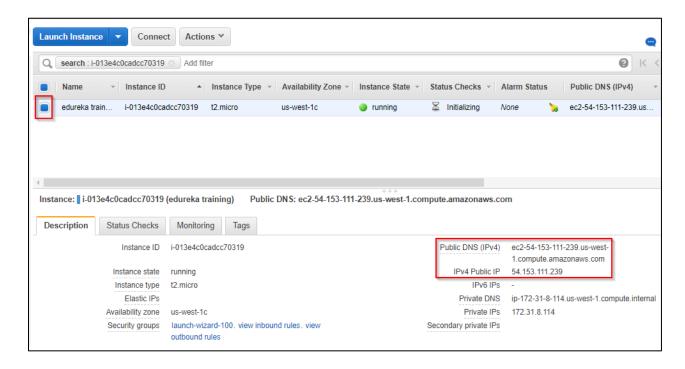
edureka!

edureka!

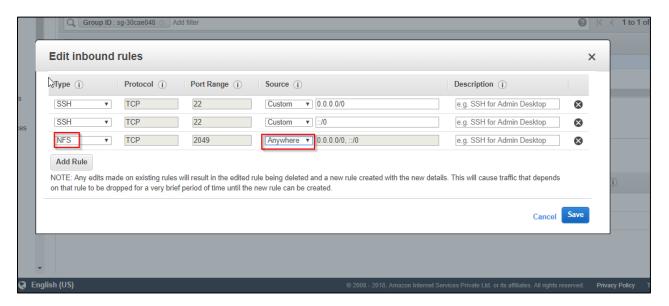
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To Attach EFS Volume To An EC2 Instance

Step 1: Launch an EC2 Instance in AWS console. Open an SSH client. (connect using PuTTY) and locate your private key file. The wizard automatically detects the key you used to launch the instance



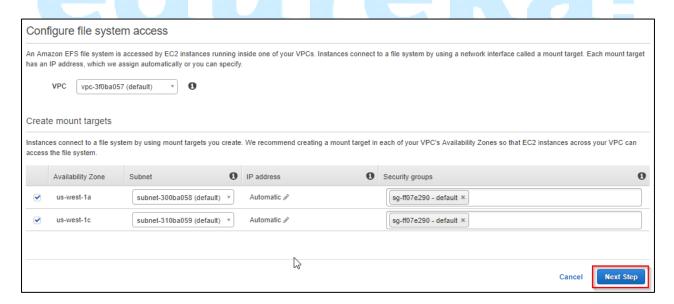
Step 2: Go to security group and add NFS since, Each EC2 instance that mounts the file system must have a security group that allows access to the mount target on the NFS port



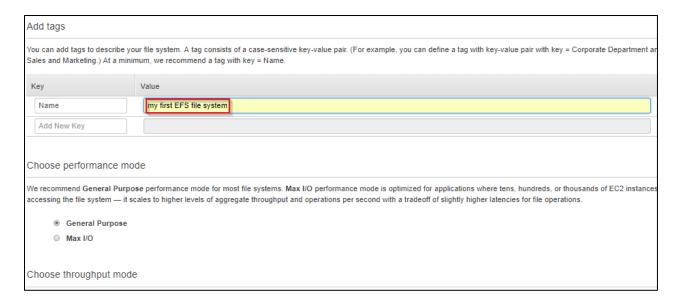
Step 3: Go back to console and select EFS, later click on "Create File System"



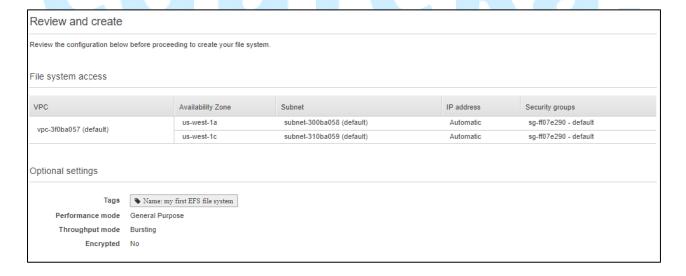
Step 4: Click on "Next Step"



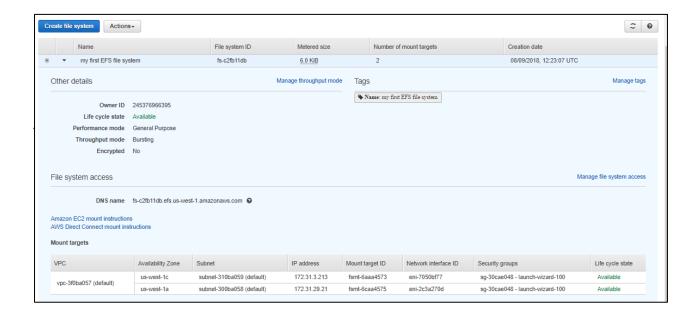
Step 5: Add name to EFS, don't change any settings and click on "Next Step"



Step 6: Review the settings and click on "Create File System"



Step 7: Note the "File system ID" and "DNS Name"



Step 8: Go to the configured "Putty" and login using- "ec2-user"

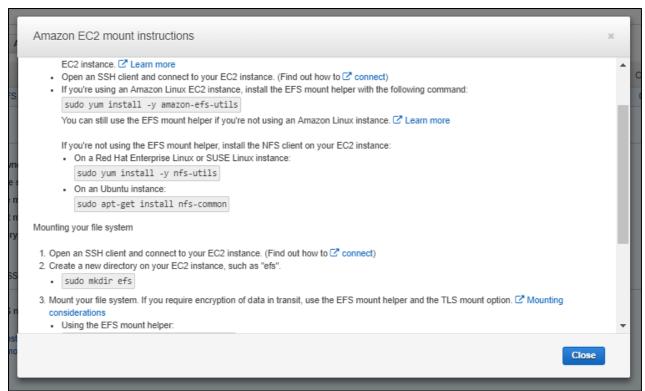
```
ec2-user@ip-172-31-8-114:~

login as: ec2-user

Authenticating with public key "imported-openssh-key"

[ec2-user@ip-172-31-8-114 ~]$
```

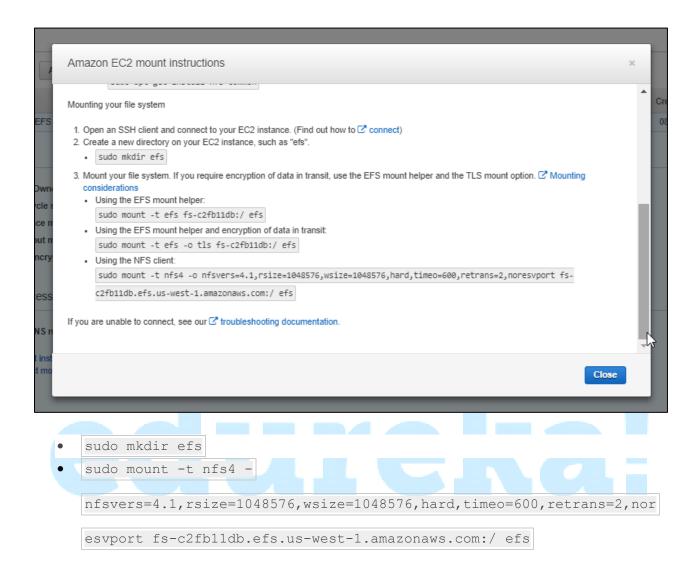
Step 9: Go to EFS and click on "Amazon EC2 Mount Instructions" and copy the commands

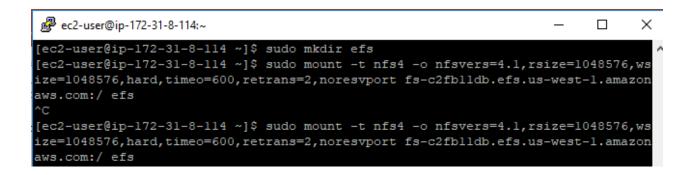


edureka:

• sudo yum install -y nfs-utils

```
ec2-user@ip-172-31-8-114:~
                                                                          Х
login as: ec2-user
Authenticating with public key "imported-openssh-key"
[ec2-user@ip-172-31-8-114 \sim]$ sudo yum install -y nfs-utils
Loaded plugins: amazon-id, rhui-lb, search-disabled-repos
rhui-REGION-client-config-server-7
                                                          | 2.9 kB
                                                                       00:00
rhui-REGION-rhel-server-releases
                                                          | 3.5 kB
                                                                       00:00
                                                          | 3.8 kB
rhui-REGION-rhel-server-rh-common
                                                                       00:00
(1/7): rhui-REGION-client-config-server-7/x86 64/primary d | 2.5 kB
                                                                       00:00
(2/7): rhui-REGION-rhel-server-releases/7Server/x86 64/gro | 855 kB
                                                                       00:00
(3/7): rhui-REGION-rhel-server-rh-common/7Server/x86 64/gr | 104 B
                                                                       00:00
(4/7): rhui-REGION-rhel-server-rh-common/7Server/x86 64/pr | 121 kB
                                                                       00:00
(5/7): rhui-REGION-rhel-server-releases/7Server/x86 64/upd | 2.9 MB
                                                                       00:00
(6/7): rhui-REGION-rhel-server-rh-common/7Server/x86 64/up | 33 kB
                                                                       00:00
(7/7): rhui-REGION-rhel-server-releases/7Server/x86 64/pri | 54 MB
                                                                       00:01
```





To check the output whether EFS is mounted to your instance or no enter this command-

df -h

```
뤋 ec2-user@ip-172-31-8-114:~
                                                                          ×
[ec2-user@ip-172-31-8-114 ~]$ sudo mkdir efs
[ec2-user@ip-172-31-8-114 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,ws
ize=1048576,hard,timeo=600,retrans=2,noresvport fs-c2fb1ldb.efs.us-west-1.amazon
aws.com:/ efs
[ec2-user@ip-172-31-8-114 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,ws
ize=1048576,hard,timeo=600,retrans=2,noresvport fs-c2fblldb.efs.us-west-1.amazon
aws.com:/ efs
[ec2-user@ip-172-31-8-114 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,ws
ize=1048576, hard, timeo=600, retrans=2, noresvport fs-c2fblldb.efs.us-west-1.amazon
aws.com:/ efs
[ec2-user@ip-172-31-8-114 ~]$ df -h
Filesystem
                                           Size
                                                  Used Avail Use% Mounted on
/dev/xvda2
                                             10G
                                                  1.3G 8.8G 13% /
                                            474M
devtmpfs
                                                       474M
                                                               0% /dev
tmpfs
                                            496M
                                                       496M
                                                               0% /dev/shm
tmpfs
                                                               3% /run
                                            496M
                                                   13M
                                                       483M
                                            496M
                                                               0% /sys/fs/cgroup
tmpfs
                                                        496M
                                                               0% /run/user/1000
                                            100M
                                                        100M
fs-c2fb11db.efs.us-west-1.amazonaws.com:/
                                            8.0E
                                                        8.0E
                                                               0% /home/ec2-user/
[ec2-user@ip-172-31-8-114 ~]$
```

Conclusion-

You have successfully mounted the EFS volume to an EC2 instance