AWS EC2

Demo Document 6

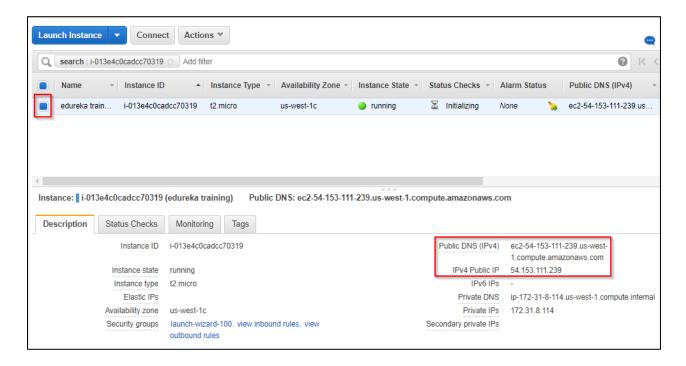
edureka!

edureka!

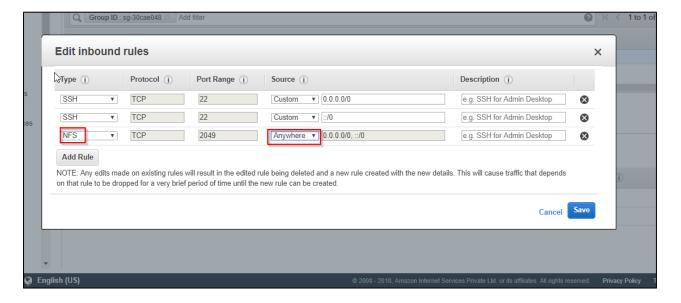
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To Attach EFS Volume to an EC2 Instance

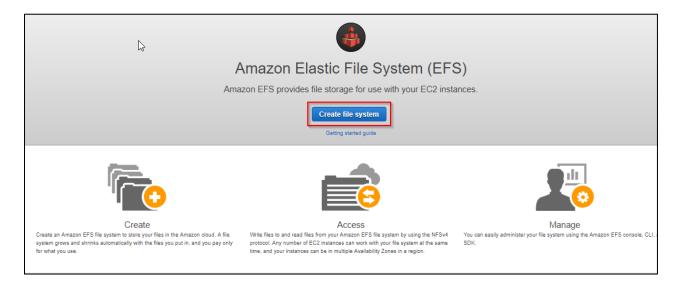
Step 1: Launch an EC2 Instance in the AWS Management console. Open an SSH client. (<u>Connect using PuTTY</u>) and locate your private key file. The wizard automatically detects the key that was used to launch the instance



Step 2: Go to Security Group and add NFS. Note that each EC2 instance that mounts the file system must consist a security group, allowing access to the mount target on the NFS port



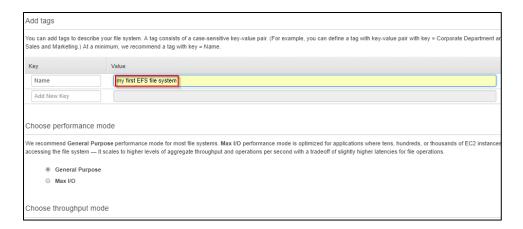
Step 3: Go back to the console and select EFS. Now, click on Create File System



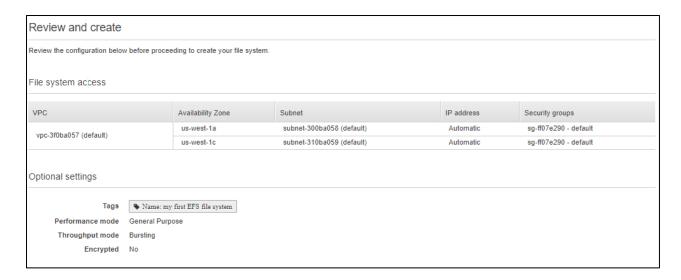
Step 4: Click on Next Step



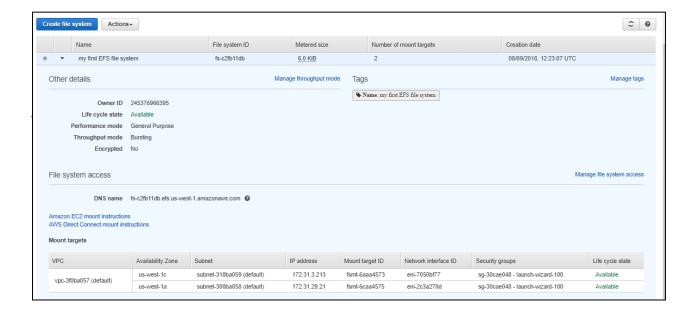
Step 5: Add a name to EFS without changing any settings and click on Next Step



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



Step 7: Note the File system ID and DNS Name



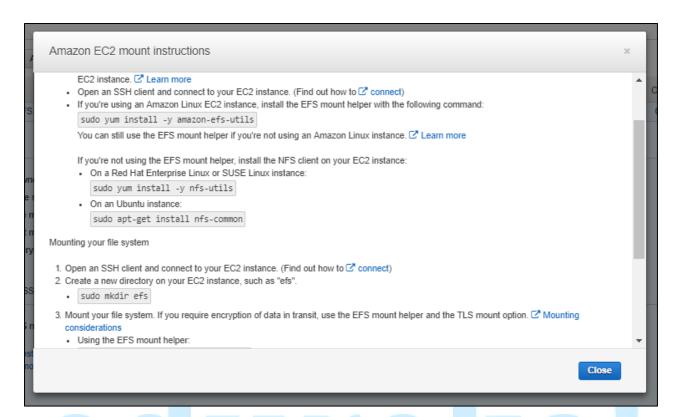
Step 8: Go to the configured Putty and log in using ec2-user

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

login as: ec2-user
Authenticating with public key "imported-openssh-key"

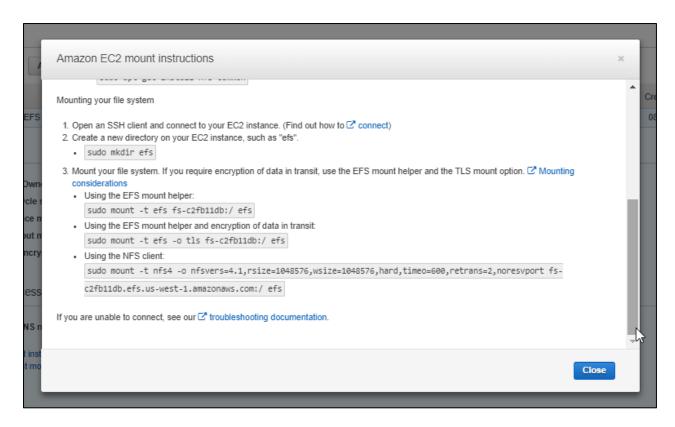
[ec2-user@ip-172-31-8-114 ~]$
```

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



• sudo yum install -y nfs-utils

```
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 ~]$ 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
rhui-REGION-rhel-server-rh-common
                                                          | 3.8 kB
                                                                       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
```



```
    sudo mkdir efs
    sudo mount -t nfs4 -
    nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,nor
    esvport fs-c2fb11db.efs.us-west-1.amazonaws.com:/ efs
```

```
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-c2fblldb.efs.us-west-1.amazon aws.com:/ efs
^C
[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
```

 To check the output whether EFS is mounted to your instance or not, enter the following 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
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aws.com:/ efs
[ec2-user@ip-172-31-8-114 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,ws
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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, noresyport 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
                                                     0 474M
                                                               0% /dev
tmpfs
                                            496M
                                                       496M
                                                               0% /dev/shm
tmpfs
                                                       483M
                                                               3% /run
                                            496M
                                                   13M
                                            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 Conclusion

You have successfully mounted the EFS volume to an EC2 instance.