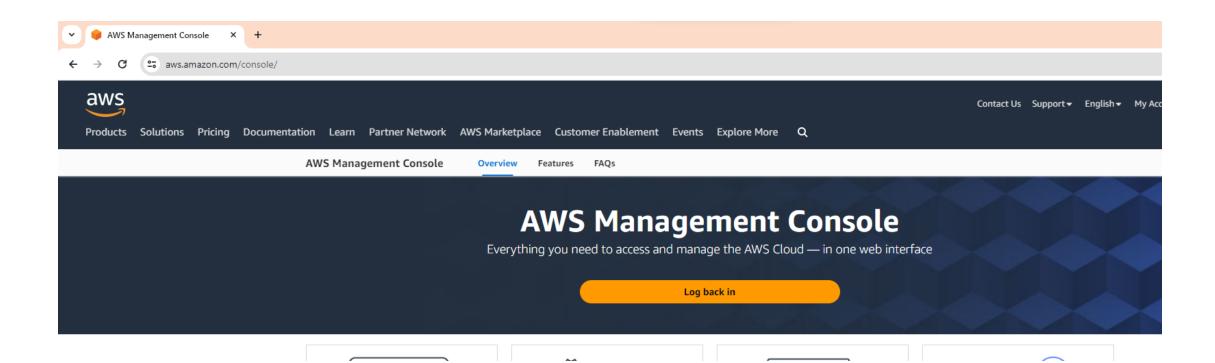
EFS

EFS – Elastic File System

- It is a managed NFS Network File System
- Can be mounted to many EC2 instances
- Can be added to different availability zone AZ's
- Will support only to Linux not windows
- Can enable KMS for encryption
- Storage class File Storage
- Provides a simple serverless and elastic file system that lets to share file data without provisioning or managing storage

Login - AWS





Sign in



Account owner that performs tasks requiring unrestricted access. Learn more

O IAM user

User within an account that performs daily tasks. Learn more

Root user email address

username@example.com

Next

By continuing, you agree to the AWS Customer Agreement or other agreement for AWS services, and the Privacy Notice. This site uses essential cookies. See our Cookie Notice for more information.

New to AWS? -

Create a new AWS account

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Password

Root user sign in o

Email: tkpradeep.it@gmail.com

Forgot password?

Sign in

Sign in to a different account

Create a new AWS account





Multi-factor authentication

Your account is secured using multi-factor authentication (MFA). To finish signing in, turn on or view your MFA device and type the authentication code below.

Email address: tkpradeep.it@gmail.com

MFA code

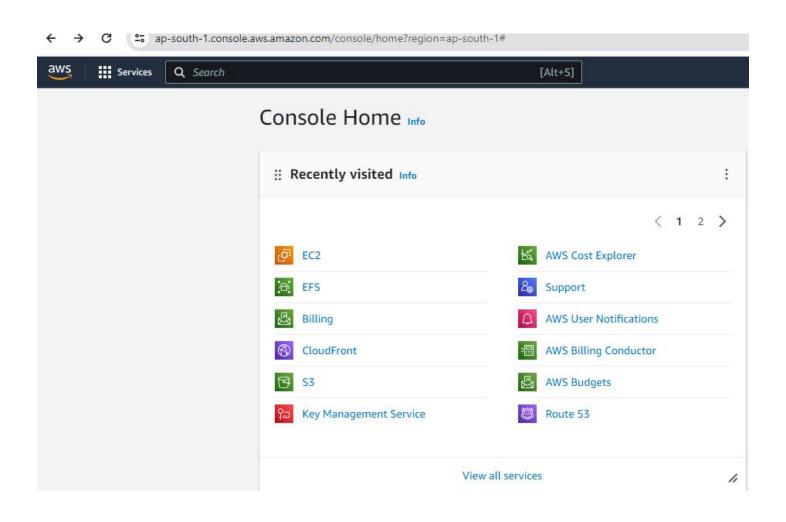
Submit

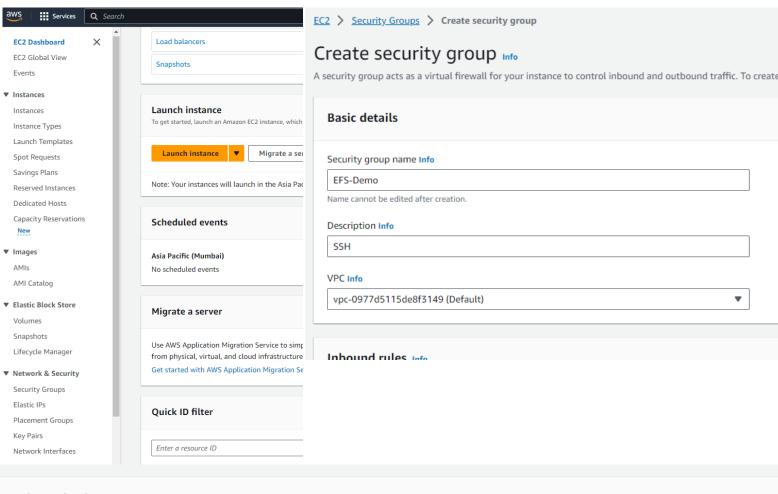
Troubleshoot MFA

Cancel

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Go to search – EC2 – Create a Security Policy

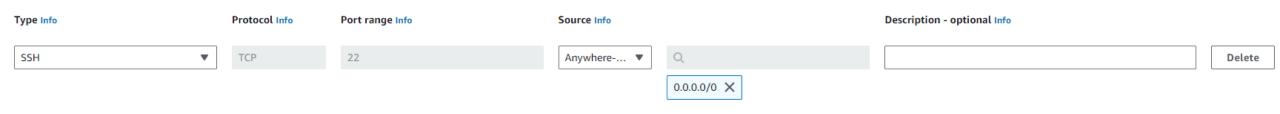




Create a policy by adding inbound rule ssh.

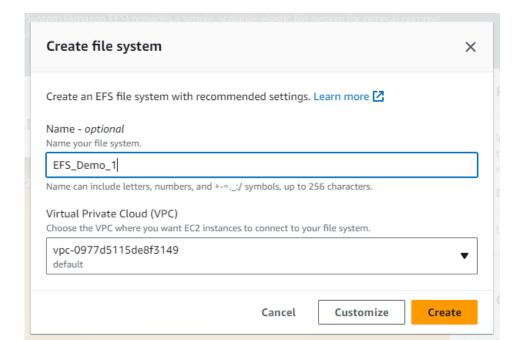
Inbound rules Info

Add rule

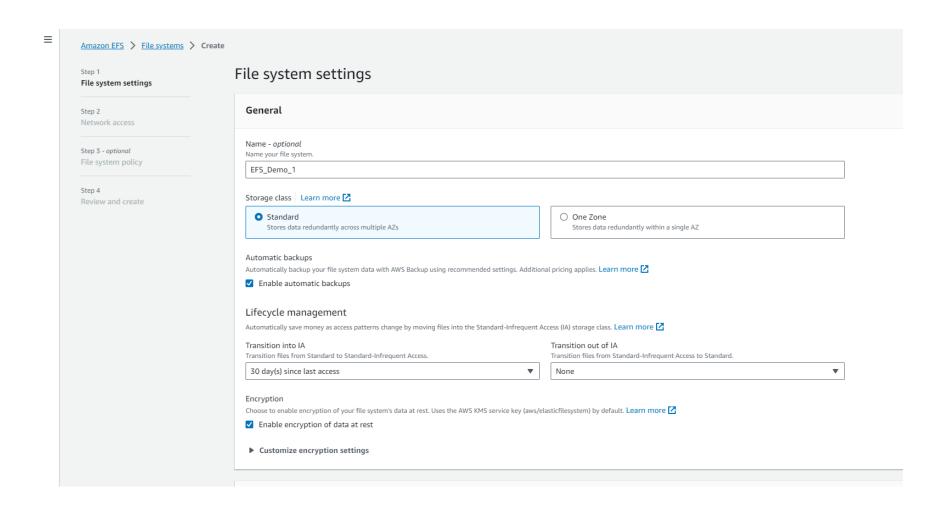


Go to EFS – Create a EFS – add the security policy created



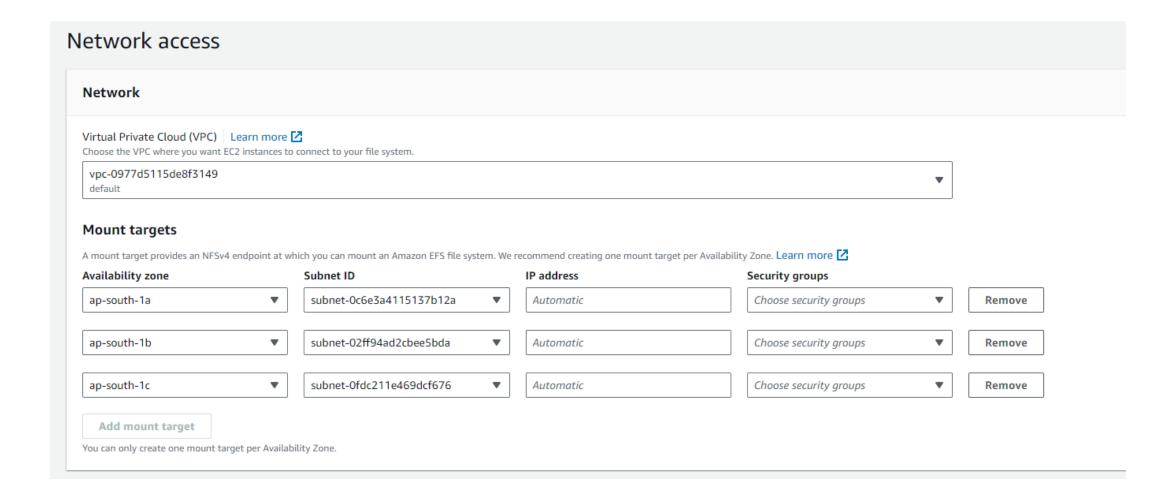


Select – Customize – Defaults

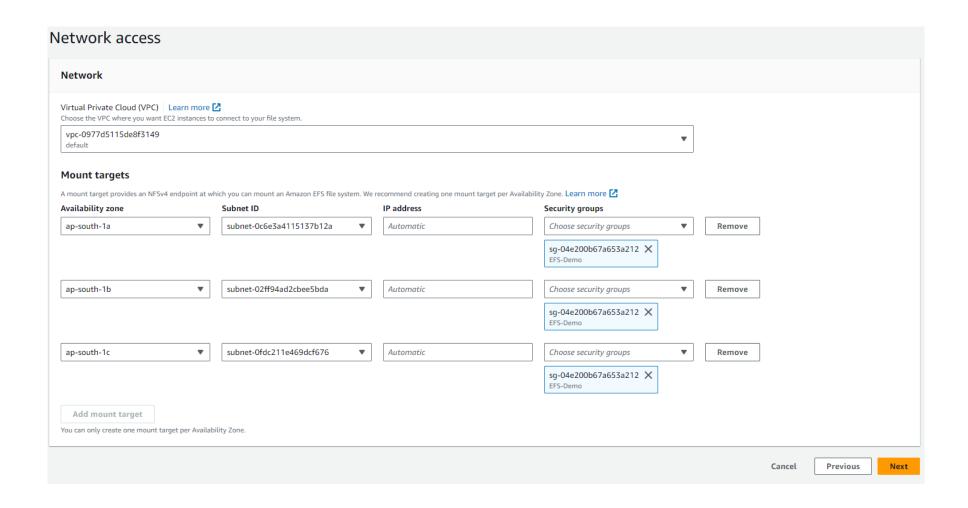


Choose to enable encryption of your file system's data at rest. Uses the AWS KMS service key (aws/elasticfilesystem) by default. Learn more 🔀 Enable encryption of data at rest Customize encryption settings Performance settings Throughput mode Choose a method for your file system's throughput limits. Learn more 🔀 Enhanced Bursting Provides more flexibility and higher throughput levels for workloads with a range of Provides throughput that scales with the amount of storage for workloads with basic performance requirements. performance requirements. Elastic (Recommended) Use this mode for workloads with unpredictable I/O. With Elastic mode, your throughput scales automatically and you only pay for what you use. Provisioned Use this mode if you can estimate your workload's throughput requirements. With Provisioned mode, you configure your file system's throughput and pay for throughput provisioned. ▼ Additional settings Performance mode Set your file system's performance mode based on IOPS required. File systems using Elastic throughput mode only support General Purpose performance mode. Learn more 🛂 General Purpose (Recommended) Ideal for a variety of diverse workloads, including high performance and latencysensitive applications ▶ Tags optional

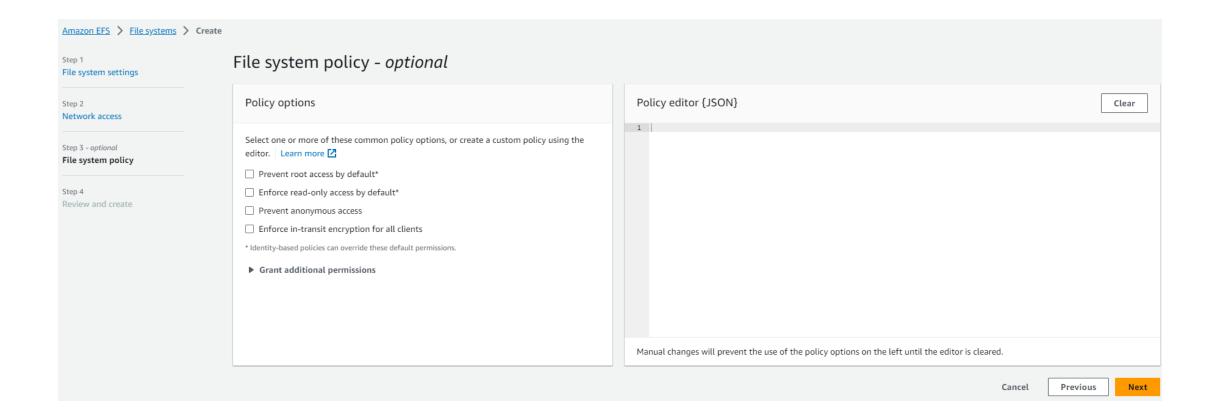
Delete the security policy - existing

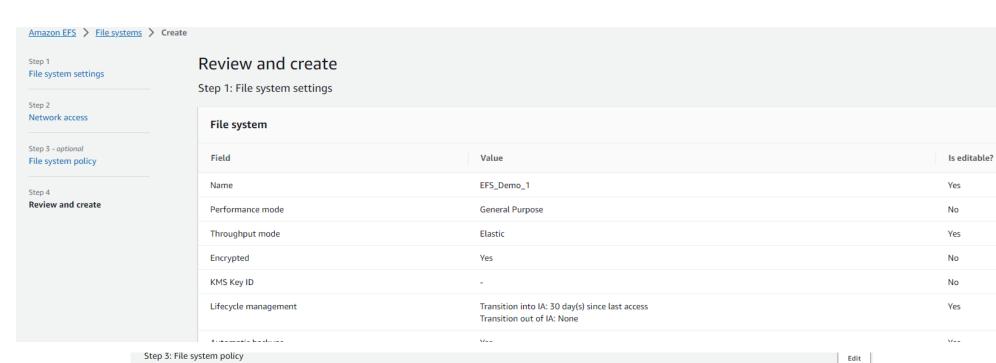


Attach the security policy created: EFS-Demo

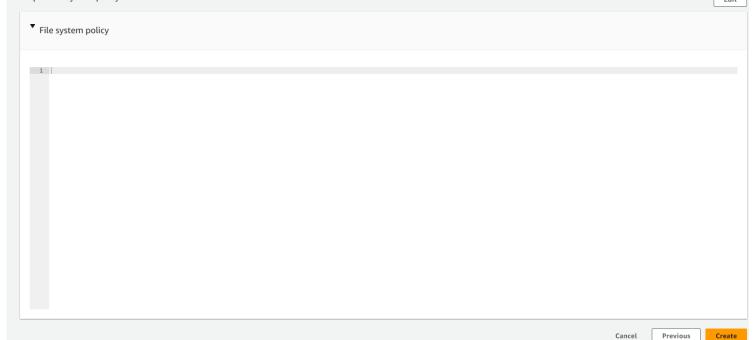


Defaults – file system policy

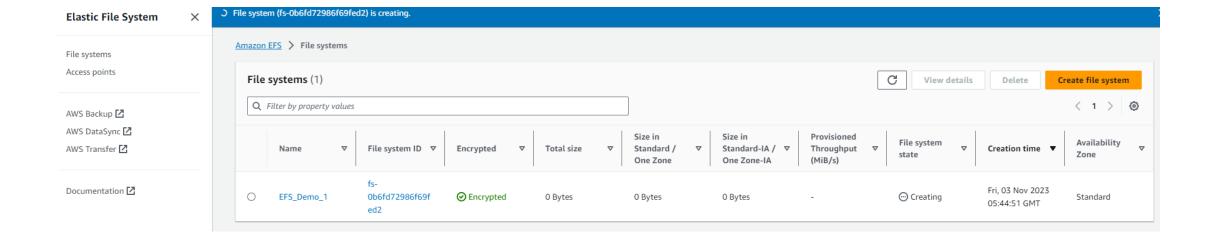




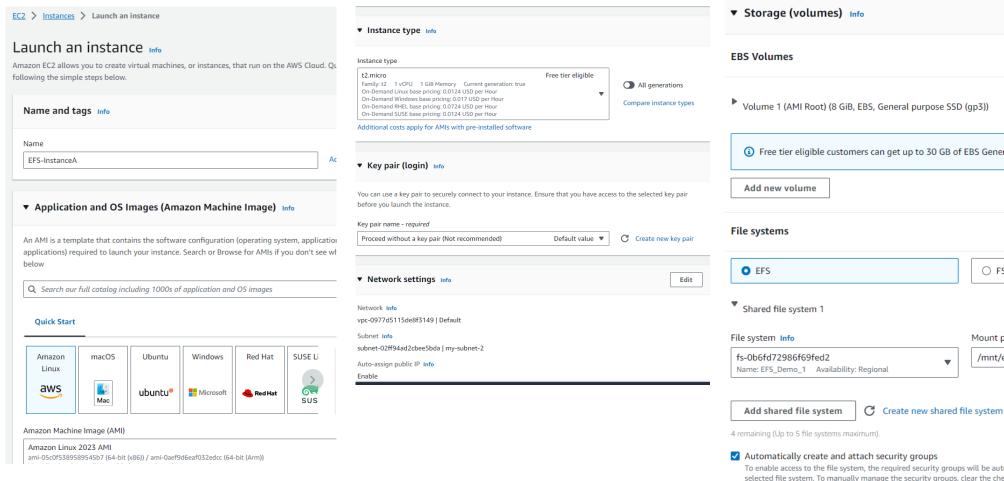
Edit

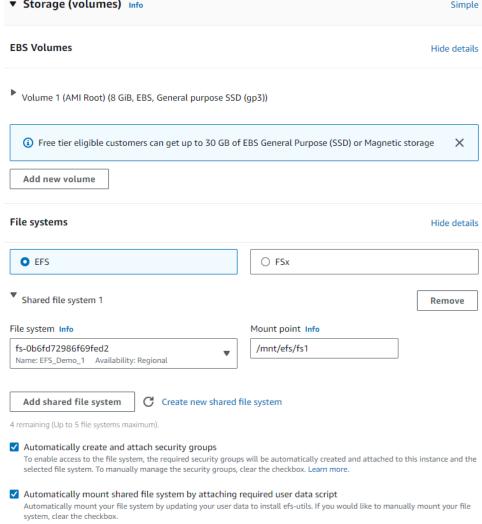


EFS - created

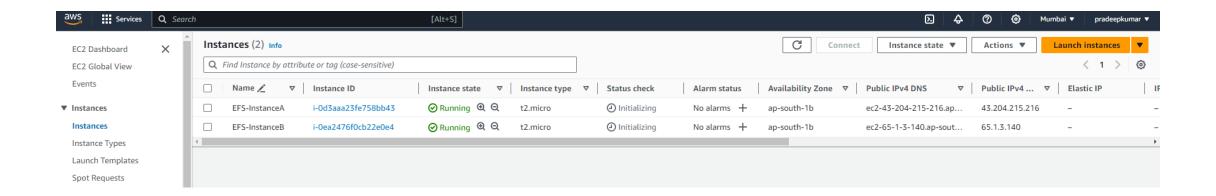


Create 2 EC2 Instance – Amazon Linux – Add the EFS File in Storage – Select the same security policy of EC2 Instance A

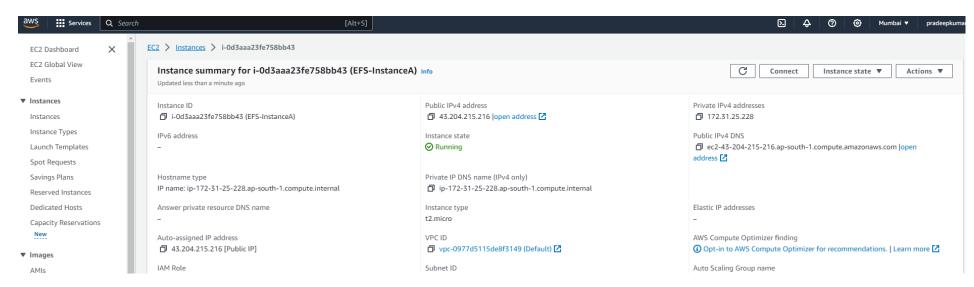




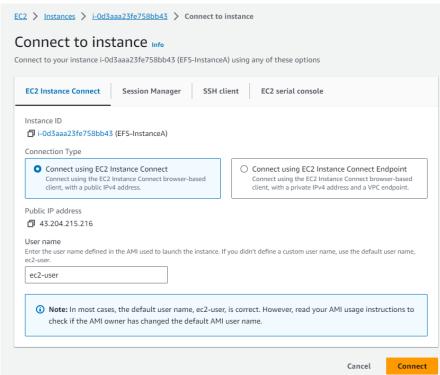
Successfully – Created 2 different instances



How to confirm to check with EC2 Instances connected with EFS file?



Select an EC2 Instance – Connect – EC2 Instance Connect – Click on connect

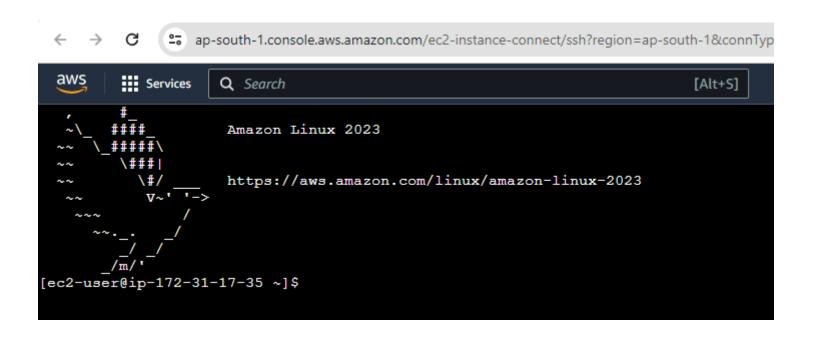




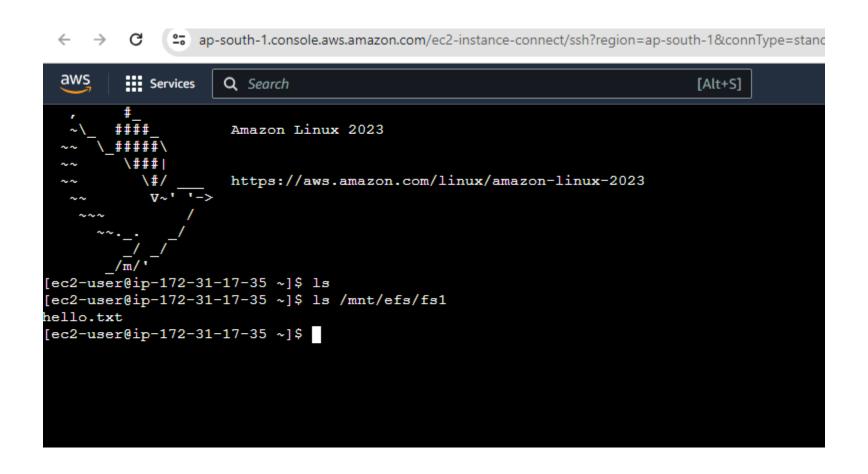
Create a file using unix commands, and cat the output

```
aws
        Services
                    Q Search
                                                                          [Alt+S]
                    Amazon Linux 2023
                    https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-25-228 ~]$ ls
[ec2-user@ip-172-31-25-228 ~]$ ls /mnt/efs/fs1
[ec2-user@ip-172-31-25-228 ~]$ sudo su
[root@ip-172-31-25-228 ec2-user] # echo "AWS - DSU"> /mnt/efs/fs1/hello.txt
[root@ip-172-31-25-228 ec2-user] # cat /mnt/efs/fs1/hello.txt
AWS - DSU
[root@ip-172-31-25-228 ec2-user]#
```

Open the second EC2 Instance – to check the EFS shared among the instances



Now can observe the file created in ec2 instanceA will appear in another ec2 instanceB



Can try to connect using putty, AWS cli ...etc

• Thank you...