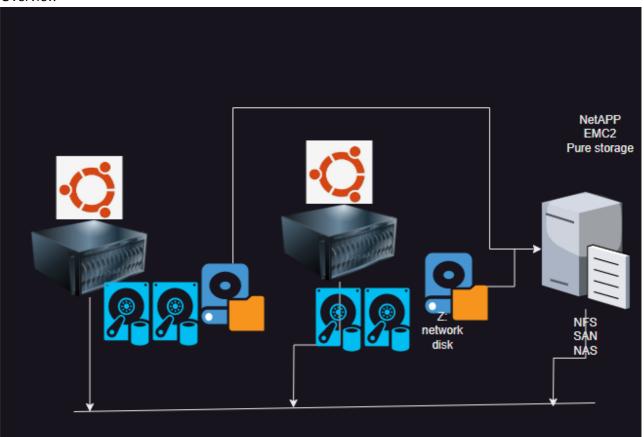
File share or Network File systems

Overview



File Storage on AWS

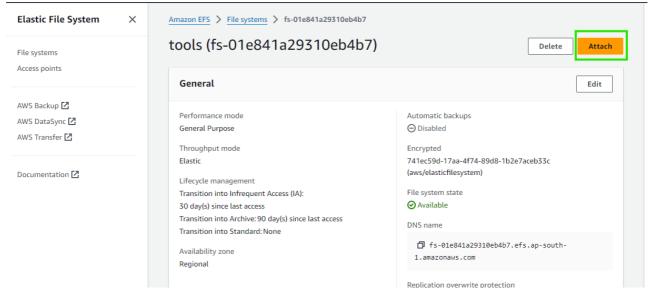
- AWS Provides two solutions for this
 - EFS (Elastic File System)
 - Works in AWS Networks (VPC) only on linux systems
 - o FSx:
 - AWS has launched this service for third party storage solutions
 - FSX for Windows Share
 - FSX for NetAPP
 - ..
- EFS Modes
 - Elastic
 - Provisioned Throughput
- Mounting efs on linux instances Refer Here

Create an EFS and mount it on two linux instances

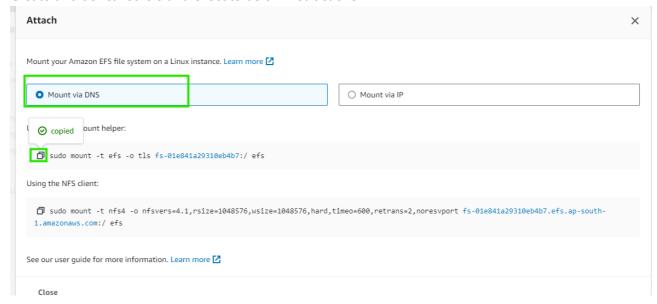
- EFS is storage in AWS network (vpc)
- EFS requires a security group (open to every one in same network)
- Create 2 Amazon Linux instances
- SSH into instances and install efs mount helper

sudo yum install -y amazon-efs-utils

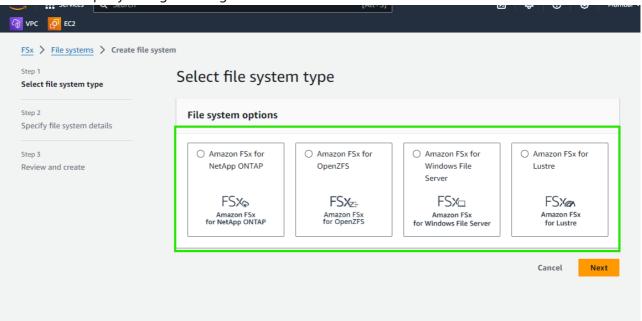
• Instructions for mounting



• Create a folder called efs and execute below instructions



• FSX is for third party storage offerings



File storage on Azure

- Azure has Azure File shares which is part of Storage Account.
- Azure Storage Accounts is one account to handle all storage types by Azure. Storage account provides
 - Blob storage
 - o File Shares
 - Disk storage
 - o table storage
 - o queue storage
- Azure Storage account support file shares
- Azure supports two types of File share sku
 - Standard (General Purpose storage account)
 - o Premium (Premium Azure file share)
- Quick start Refer Here

Mount fileshare on linux and windows as discussed in the classroom

```
Dell@lin-server1:-$ vi mounthelper.sh
Dell@lin-server1:-$ vi mounthelper.sh
Dell@lin-server1:-$ chmod +x mounthelper.sh
Dell@lin-server1:-$ ./mounthelper.sh
Dell@lin-server1:-$ sudo df -h
                                                                                                                  Filesystem
/dev/root
tmpfs
tmpfs
tmpfs
                                                                                                        167M
5.0M
efivarfs
/dev/sda15
                                                                                                         105M
/dev/sdb1
0% /mnt/tools
                                                                                                                                100T
                                                                                                                              52.txt 58.txt 63.txt 69.txt
53.txt 59.txt 64.txt 7.txt
54.txt 60.txt 65.txt 70.txt
55.txt 60.txt 66.txt 71.txt
56.txt 61.txt 67.txt 72.txt
57.txt 62.txt 68.txt 73.txt
                                                                                                                                                                                              74.txt 8.txt
75.txt 80.txt
76.txt 81.txt
77.txt 82.txt
78.txt 83.txt
79.txt 84.txt
                                                                                                                                                                                                                             86.txt 91.txt
87.txt 92.txt
88.txt 93.txt
89.txt 94.txt
9.txt 95.txt
                                                                                                                                                                                                                                                             97.txt
98.txt
 Dell@lin-server1:~$
```

- Azure Third party storage solutions
 - Azure NetApp
 - Azure Lustre