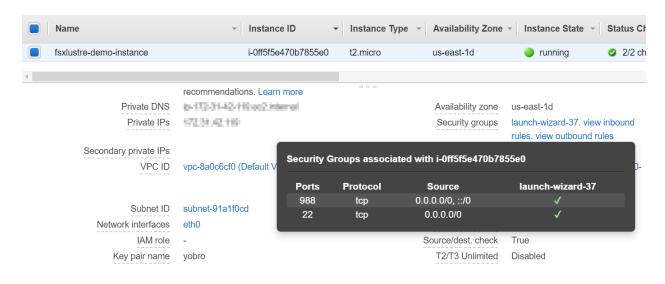
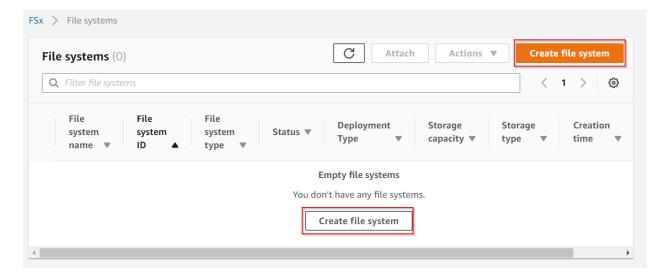


## <u>Module 10 – Hands-On: Creating a Lustre File System and</u> <u>Mounting it</u>

Step 1: Launch an Amazon Linux 2 instance with a custom TCP rule of port 988 open



Step 2: Click on Create File System to start the process

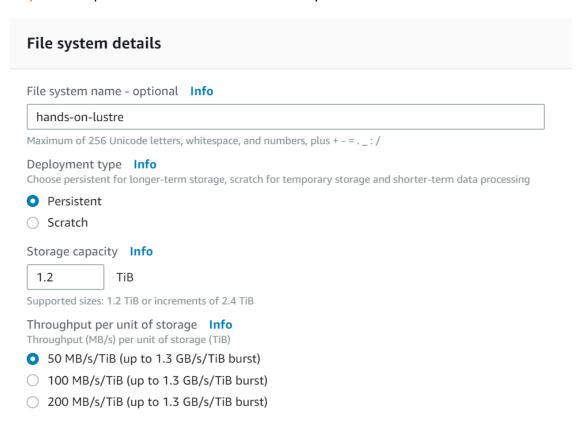




Step 3: Then choose FSx for Lustre, then go down and click Next button

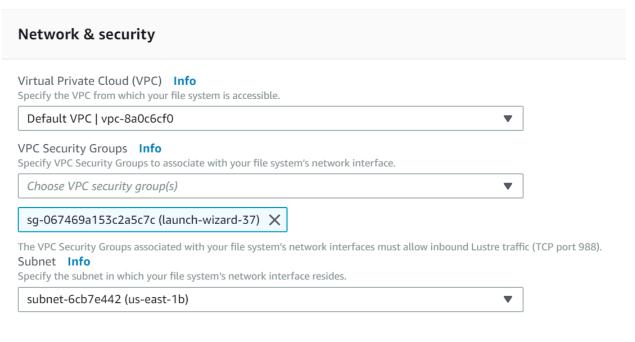


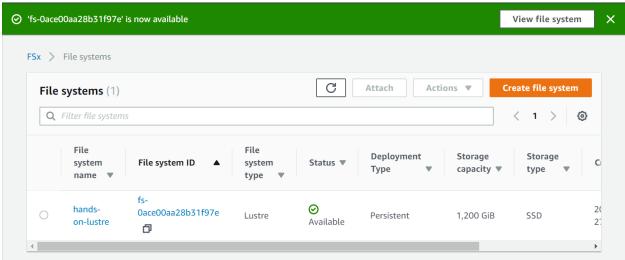
Step 4: Then put in the details to create a File system





**Step 5:** Under Network & Security, the VPC security group should be the same group as your EC2 instance you created in Step 1. The security group should allow inbound traffic from TCP port 988. After that go down and click Create File System.





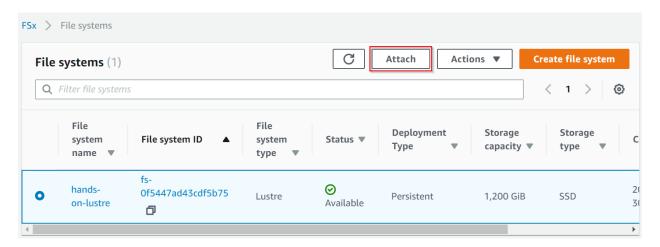


Step 6: Now install a Lustre client in your Linux EC2 instance using these commands.

## To install --sudo amazon-linux-extras install -y lustre2.10

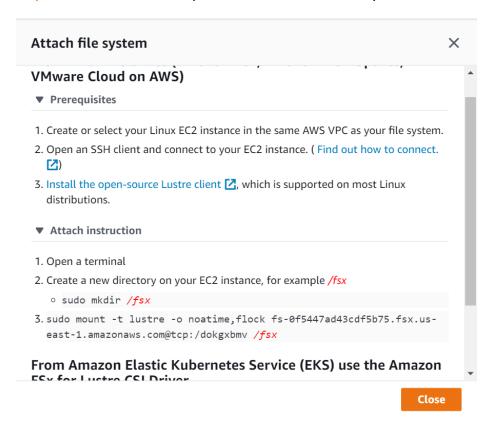
```
ec2-user@ip-172-31-42-119:~
ec2-user@ip-172-31-42-119 ~]$ sudo amazon-linux-extras install -y lustre2.10
Installing lustre-client
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-lustre2.10
12 metadata files removed
4 sqlite files removed
O metadata files removed
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
amzn2-core
                                                            2.4 kB
                                                                        00:00
amzn2extra-docker
                                                            1.8 kB
                                                                        00:00
amzn2extra-lustre2.10
                                                            1.7 kB
                                                                        00:00
(1/7): amzn2-core/2/x86 64/group gz
                                                             | 2.5 kB
                                                                        00:00
(2/7): amzn2-core/2/x86 64/updateinfo
                                                              199 kB
                                                                        00:00
(3/7): amzn2extra-lustre2.10/2/x86 64/primary db
                                                                        00:00
(4/7): amzn2extra-docker/2/x86 64/updateinfo
                                                                69 B
                                                                        00:00
(5/7): amzn2extra-docker/2/x86 64/primary db
                                                               64 kB
                                                                        00:00
(6/7): amzn2extra-lustre2.10/2/x86_64/updateinfo
                                                                69 B
(7/7): amzn2-core/2/x86_64/primary db
                                                               39 MB
                                                                        00:00
Resolving Dependencies
-> Running transaction check
 --> Package lustre-client.x86 64 0:2.10.8-1.amzn2 will be installed
-> Finished Dependency Resolution
Dependencies Resolved
```

**Step 7:** Now go to the FSx console, choose the file system and click Attach button to check out the steps





Step 8: Use the commands provided in the Attach file system



Step 9: Use the commands provided in the Attach file system

```
ec2-user@ip-172-31-42-119:~

[ec2-user@ip-172-31-42-119 ~]$ sudo mkdir fsx

[ec2-user@ip-172-31-42-119 ~]$ ls

fsx

[ec2-user@ip-172-31-42-119 ~]$
```

```
[ec2-user@ip-172-31-42-119 fsx]$ sudo mount -t lustre -o noatime,flock fs-0f5447
ad43cdf5b75.fsx.us-east-1.amazonaws.com@tcp:/dokqxbmv /fsx
[ec2-user@ip-172-31-42-119 fsx]$ df -T
Filesystem
                                       1K-blocks
                                                    Used Available Use% Mounted
                             Type
devtmpfs
                             devtmpfs
                                          485468
                                                              485468
                                                                       0% /dev
tmpfs
                                          503480
                                                              503480
                                                                       0% /dev/shm
                             tmpfs
                                          503480
                                                      468
                                                              503012
                                                                       1% /run
tmpfs
                             tmpfs
                                                              503480
tmpfs
                             tmpfs
                                          503480
                                                                       0% /sys/fs/
cgroup
/dev/xvda1
                             xfs
                                         8376300 1308336
                                                             7067964
                                                                       16% /
tmpfs
                             tmpfs
                                          100700
                                                              100700
                                                                       0% /run/use
r/1000
172.31.50.204@tcp:/dokgxbmv lustre
                                                     4608 1168344576
                                      1168351232
```

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**Step 10:** We have successfully mounted the Lustre file system. Now, unmount the file system and delete it.

[ec2-user@ip-172-31-42-119 fsx]\$ sudo umount /fsx						
[ec2-user@ip-172-31-42-119 fsx]\$ df -T						
Filesystem	Type 1	K-blocks	Used	Available	Use∜	Mounted on
devtmpfs	devtmpfs	485468	0	485468	0%	/dev
tmpfs	tmpfs	503480	0	503480	0%	/dev/shm
tmpfs	tmpfs	503480	468	503012	1%	/run
tmpfs	tmpfs	503480	0	503480	0%	/sys/fs/cgroup
/dev/xvda1	xfs	8376300	1308548	7067752	16%	/
tmpfs	tmpfs	100700	0	100700	0%	/run/user/1000