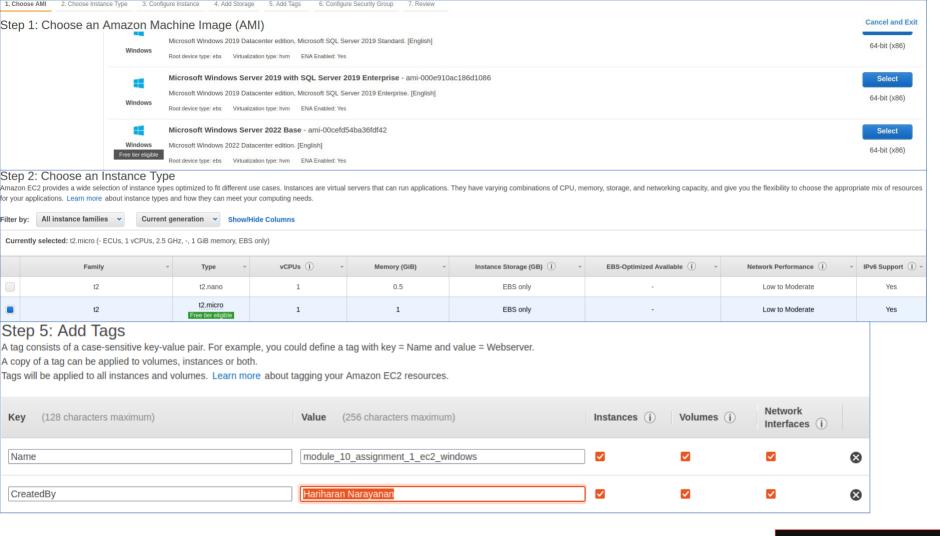
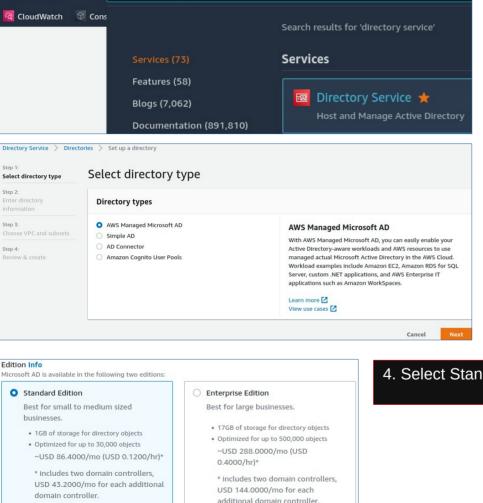
Module-10: FSx Assignment - 1

You have been asked to:

- 1. Create an FSx file system for a windows file server
 - a) Make sure you have AWS Managed Active Directory with a valid domain name
 - b)Connect it to your Windows EC2 server
- 2. Create an FSx file system for Lustre and attach it to an Amazon Linux 2 instance





A fully qualified domain name. This name will resolve inside your VPC only. It does not need to be publicly resolvable.

Services

Directory DNS name

corp.hariharanaws.com

Q directory service

2. Open Directory service

3. Select AWS Managed Microsoft AD

4. Select Standard edition

5. Provide a DNS name to the AD

Admin password

The password for the default administrative user named Admin.

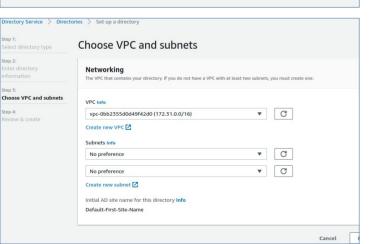


Passwords must be between 8 and 64 characters, not contain the categories: lowercase, uppercase, numeric, and special characters.

Confirm Password

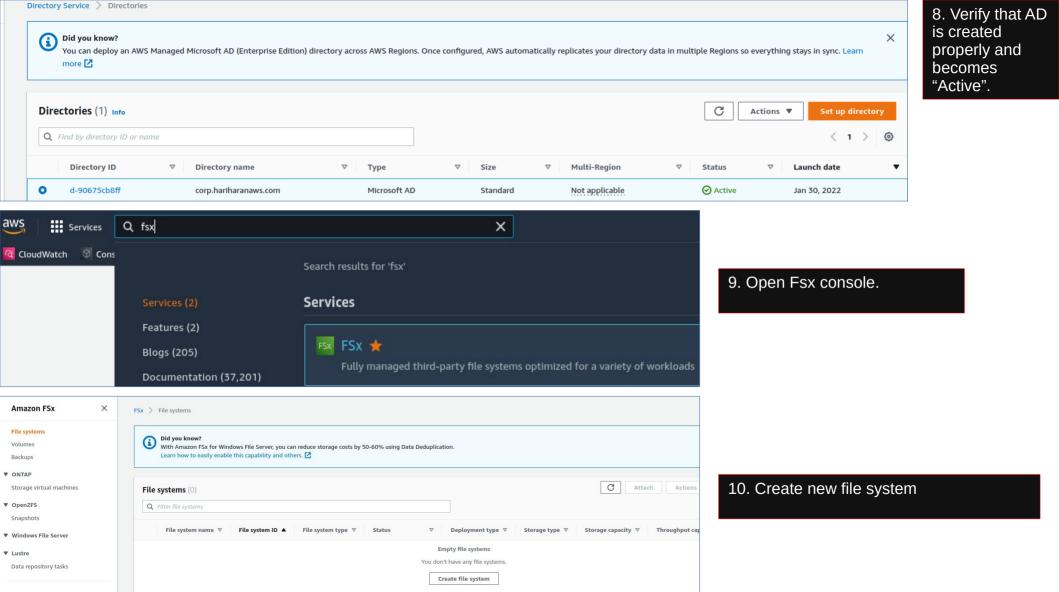


This password must match the Admin password above.



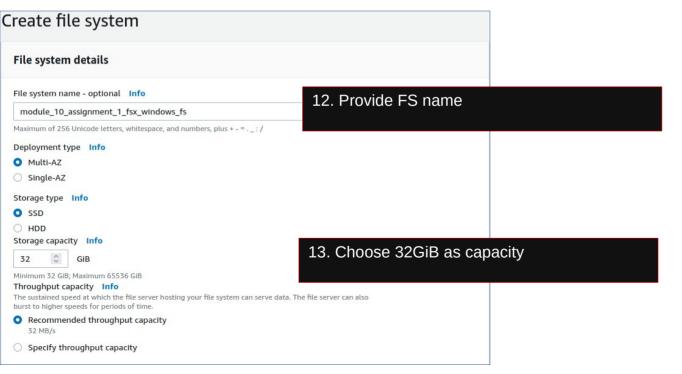
6. Provide password to the AD

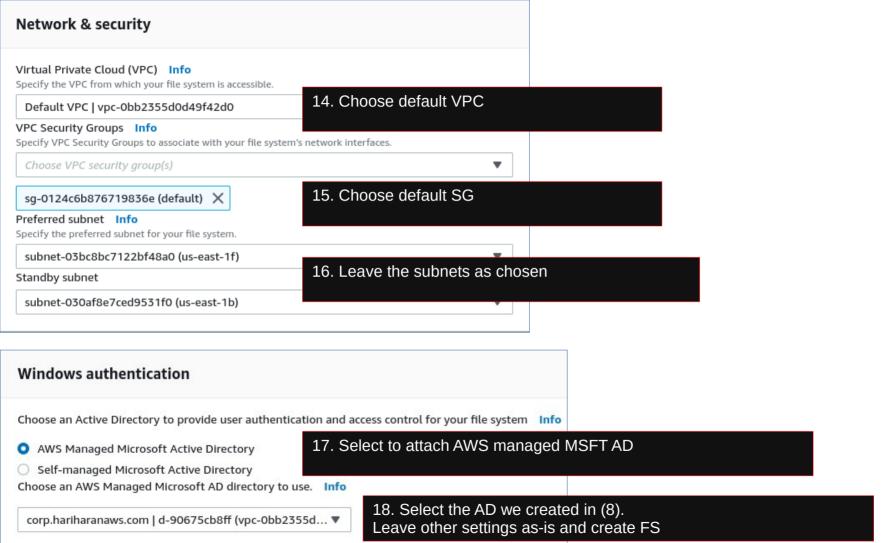
7. Provide the VPC (I provided the default VPC). Save settings, review and create the AD.





11. Select Windows File server







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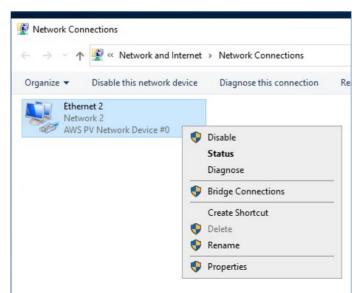
Best match

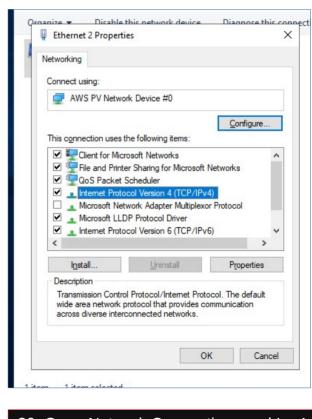
View network connections

Control panel

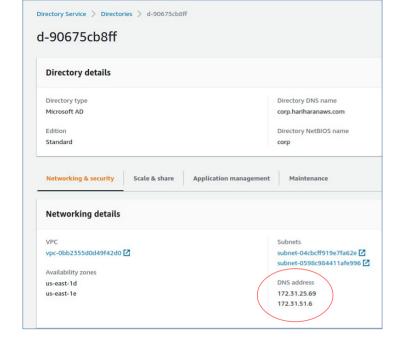
Network Connections

19. Connect to the Windows EC2 instance created in (1), using any RDP client

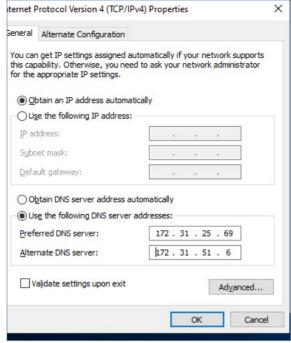




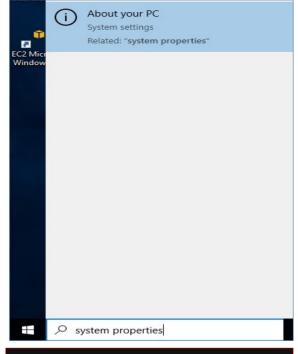
20. Open Network Connections and Ipv4
Properties



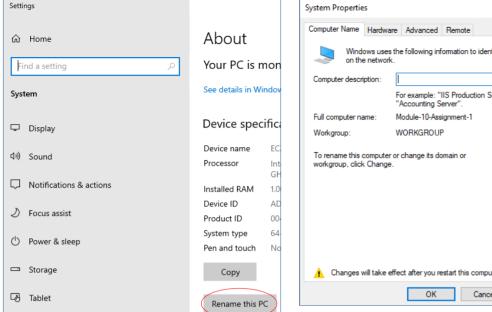
21. Note the DNS addresses of the Windows AD we created

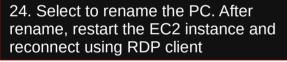


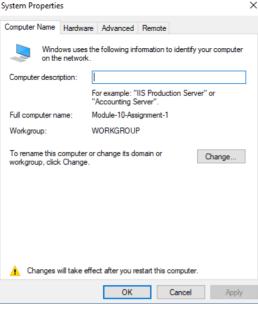
22. Provide the same in the Ipv4 properties DNS server addresses



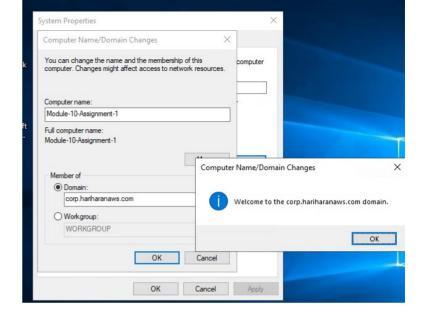
23. Open PC properties dialog to rename PC





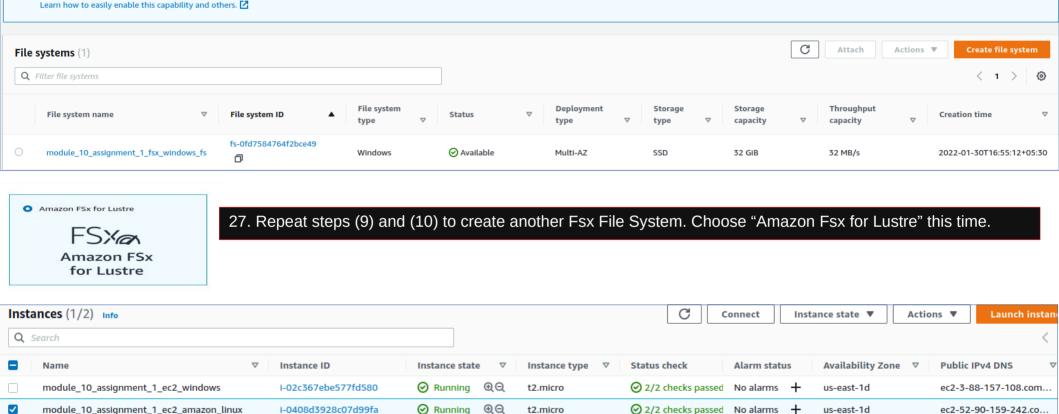


25. After restart, open System Properties and "Change" to change domain of this instance



26. In "Domain", provide the value of "Directory name" of the Windows AD we created in (8). Provide username and password of the Admin user we provided in (8)

This finishes parts (1.a) and (1.b) asked in the question



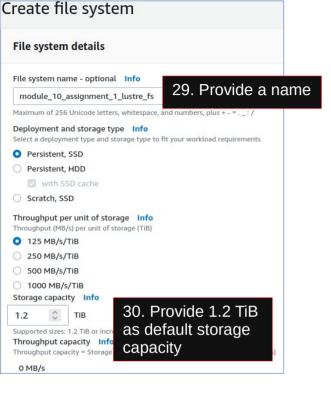
×

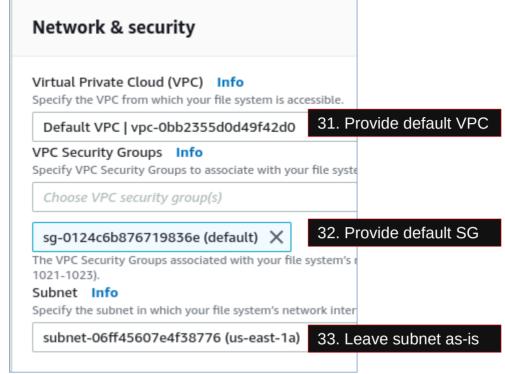
28. Create an EC2 instance of Amazon Linux

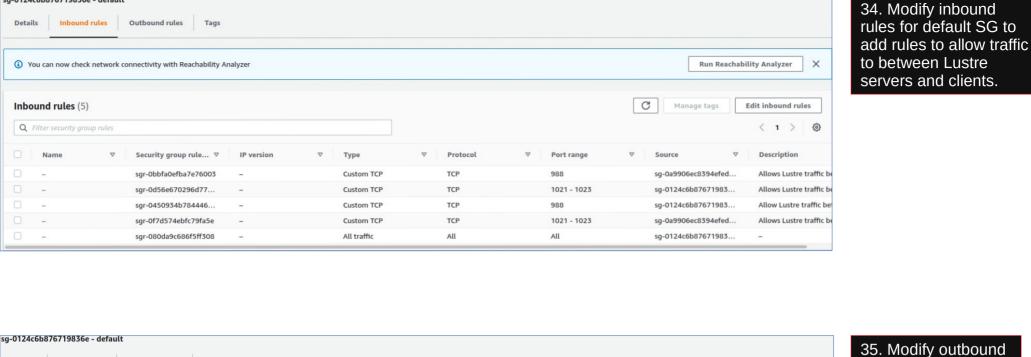
FSx > File systems

Did you know?

With Amazon FSx for Windows File Server, you can reduce storage costs by 50-60% using Data Deduplication.







Protocol

TCP

TCP

All

TCP

TCP

sg-0124c6b876719836e - default

Inbound rules

Outbound rules (5)

Name

Q Filter security group rules

Outbound rules

Security group rule... ▽

sgr-0548fdc148c61df31

sgr-0e0240aee46ea9d93

sgr-0aae82309aa1ce865

sgr-0db64dda2dfaab7e1

sgr-016b0f53261c54fd8

IP version

Type

Custom TCP

Custom TCP

Custom TCP

Custom TCP

All traffic

(i) You can now check network connectivity with Reachability Analyzer

to between Lustre servers and clients.

rules for default SG Allow Lustre traffic bet Allow Lustre traffic bet Allow Lustre traffic bet Allow Lustre traffic bet

Run Reachability Analyzer

Edit outbound rules

< 1 >

Description

C

Port range

1021 - 1023

1021 - 1023

988

All

988

Manage tags

sq-0a9906ec8394efed.

sg-0a9906ec8394efed.

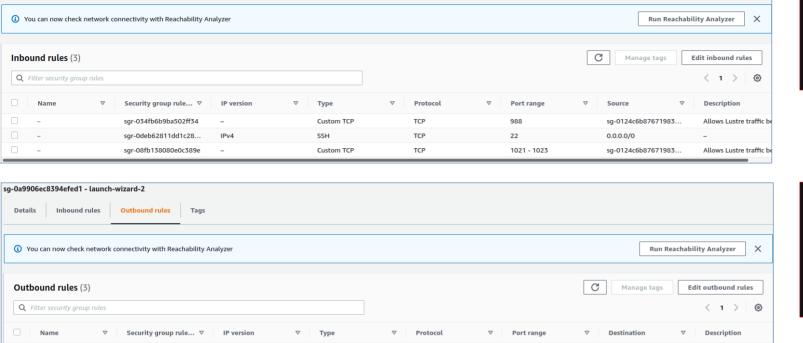
sq-0124c6b87671983..

sg-0124c6b87671983...

Destination

0.0.0.0/0

to add rules to allow traffic to between Lustre servers and clients.



TCP

All

TCP

988

1021 - 1023

sg-0124c6b87671983.

sg-0124c6b87671983..

0.0.0.0/0

Allow Lustre traffic bet

Allow Lustre traffic bet

Custom TCP

Custom TCP

All traffic

sg-0a9906ec8394efed1 - launch-wizard-2

Inbound rules

Outbound rules

sgr-029918b678c6d1...

sgr-0bfd1535b310cfb57

sgr-0871b811be807c0...

IPv4

36. Modify inbound rules for SG of Amazon Linux instance created in (28) to add rules to allow traffic to between Lustre servers and clients.

37. Modify outbound rules for SG of Amazon Linux instance created in (28) to add rules to allow traffic to between Lustre servers and clients.

[ec2-user@ip-172-31-16-137 ~|\$ sudo mount -t lustre -o noatime.flock fs-09d9355b7dad6bb3e.fsx.us-east-1.amazonaws.com@tcp:/wcynjbmy /fs

0% /svs/fs/caroup

0% /run/user/1000

Used Available Use% Mounted on

6790432

7936 1201373184

0% /dev

1% /run

0% /dev/shm

[ec2-user@ip-172-31-16-137 ~]\$ ls [ec2-user@ip-172-31-16-137 ~]\$ df

172.31.44.68@tcp:/wcynjbmv 1201383168

devtmpfs

/dev/xvda1

tmpfs

1K-blocks

485568

494344

494344

494344

98872

8376300 1585868

40. Finally, create a directory called ~/fsx and mount the Lustre filesystem with this directory as the a mount directory. Verify that the file system was mounted correctly.

This finishes part (2) asked in the question