

### TASK 3 - EC2 and EFS

1. Create an EFS and connect it to 3 different EC2 instances. Make sure that all instances have different operating systems. For instance, Ubuntu, Red Hat Linux and Amazon Linux 2

ANSWERS:

The screenshot shows the AWS Elastic File System console. A green success banner at the top states: "Success! File system (fs-0a1e58be0b1450a82) is available." Below this, the "File systems (1)" section displays a table with the following data:

Name	File system ID	Encryption	Total size	Size in Standard / One Zone	Size in Standard-IA / One Zone-IA	Provisioned Throughput (MiB/s)	File system state	Creation time
EFS 1	fs-0a1e58be0b1450a82	Encrypted	6.00 KiB	6.00 KiB	0 Bytes	-	Available	Tue, 26 Oct 2023 06:52:45 GMT

Create one EFS

Create one linux instance

Connect to server

The screenshot shows the details of the file system "EFS 1 (fs-0a1e58be0b1450a82)". The "General" tab is selected, displaying the following information:

- Performance mode:** General Purpose
- Throughput mode:** Elastic
- Lifecycle management:** Transition into IA: 30 day(s) since last access; Transition out of IA: None
- Availability zone:** Standard
- Automatic backups:** Enabling
- Encrypted:** da2b9b15-8e19-458e-8a45-93cba91ed4e4 (aws/elasticfilesystem)
- File system state:** Available
- DNS name:** fs-0a1e58be0b1450a82.efs.ap-south-1.amazonaws.com

At the bottom, there are tabs for "Metered size", "Monitoring", "Tags", "File system policy", "Access points", "Network", and "Replication". The "Tags" tab is currently selected, showing a "Manage tags" button.

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EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Instances (4) Info

Connect

Instance state

Actions

Launch instances

Find instance by attribute or tag (case-sensitive)

< 1 >

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	Task 2	i-03bf32902a94f5827	Stopped	t2.micro	-	No alarms	ap-south-1b	-
<input type="checkbox"/>	ubuntu	i-0673d69178b3ccdaa	Running	t2.micro	Initializing	No alarms	ap-south-1b	ec2-13-127-82-5
<input type="checkbox"/>	Linux	i-017e504058ffd0623	Running	t2.micro	Initializing	No alarms	ap-south-1b	ec2-3-110-154-8
<input type="checkbox"/>	Redhat	i-06af0689c5e40a136	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-3-109-212-1

Select an instance

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Elastic File System

File systems

Access points

AWS Backup

AWS DataSync

AWS Transfer

Documentation

Lifecycle management

Transition into IA: 30 day(s) since last access

Transition out of IA: None

Availability zone

Standard

File system state

Available

DNS name

fs-0a1e58be0b1450a82.efs.ap-south-1.amazonaws.com

Metered size

Monitoring

Tags

File system policy

Access points

Network

Replication

Network

Manage

Availability zone	Mount target ID	Subnet ID	Mount target state	IP address	Network interface ID	Security groups
ap-south-1a	fsmt-0ad9ae0f9372e0836	subnet-0218af047ce3c1038	Available	172.31.47.44	eni-06948dd0de914c750	sg-070a69fa0fbba0178 (default)
ap-south-1b	fsmt-0d5d451cdddc09677	subnet-05e13e0f014be0f7b	Available	172.31.9.129	eni-0921994adbd81b5fd	sg-070a69fa0fbba0178 (default)
ap-south-1c	fsmt-0fa27ed488abaac76	subnet-06bc0276159f1c8ce	Available	172.31.16.161	eni-0c0412e6db683dfd1	sg-070a69fa0fbba0178 (default)

```
Gmail YouTube Maps
aws Services Search [Alt+S]

#_
##### Amazon Linux 2023
#####\
\####|
\#/ https://aws.amazon.com/linux/amazon-linux-2023
V~' '->
~
~
~
~
~/m/'

[ec2-user@ip-172-31-93-50 ~]$ sudo -i
[root@ip-172-31-93-50 ~]# sudo yum update -y
Last metadata expiration check: 0:03:03 ago on Tue Sep 26 07:18:30 2023.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-93-50 ~]#
```

```
aws Services Search [Alt+S] N. Virginia sasi

#_
##### Amazon Linux 2023
#####\
\####|
\#/ https://aws.amazon.com/linux/amazon-linux-2023
V~' '->
~
~
~
~
~/m/'

[ec2-user@ip-172-31-93-50 ~]$ sudo -i
[root@ip-172-31-93-50 ~]# sudo yum update -y
Last metadata expiration check: 0:03:03 ago on Tue Sep 26 07:18:30 2023.
Dependencies resolved.
Nothing to do.
complete!
[root@ip-172-31-93-50 ~]# sudo yum install -y amazon-efs-utils
Last metadata expiration check: 0:03:56 ago on Tue Sep 26 07:18:30 2023.
Dependencies resolved.

=====
Package Architecture Version Repository Size
=====
Installing:
amazon-efs-utils noarch 1.35.0-1.amzn2023 amazonlinux 56 k
Installing dependencies:
stunnel x86_64 5.58-1.amzn2023.0.2 amazonlinux 156 k
=====
Transaction Summary
=====
Install 2 Packages

Total download size: 212 k
Installed size: 556 k
```

▼ Network settings

Info

VPC - required

Info

vpc-05900351591efe7d4

(default)

▼

172.31.0.0/16

Subnet

Info

subnet-0218af047ce3c1038

▼

VPC: vpc-05900351591efe7d4   Owner: 601568096541  
Availability Zone: ap-south-1a   IP addresses available: 4090  
CIDR: 172.31.32.0/20

Auto-assign public IP

Info

Enable

▼

Firewall (security groups)

Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☐ Create security group

☒ Select existing security group

Common security groups

Info

Select security groups

▼

default

sg-070a69fa0fbba0178

×

▼

VPC: vpc-05900351591efe7d4

Security groups that you add or remove here will be added to or removed from all your network interfaces.

► Advanced network configuration

▼ Summary

Number of instances

Info

1

▼

Software Image (AMI)

Info

Provided by Red Hat, Inc.

ami-008b85aa3ff5c1b02

Virtual server type (instance type)

Info

t2.micro

▼

Firewall (security group)

Info

default

▼

Storage (volumes)

Info

1 volume(s) - 10 GiB

▼

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which it is available)

×

Cancel

Launch instance

Review commands

Subnet

×

The subnet in which the network interface is located.

[Get more networking guidance](#)

For Redhat EFS not to work so we have to install NFS.