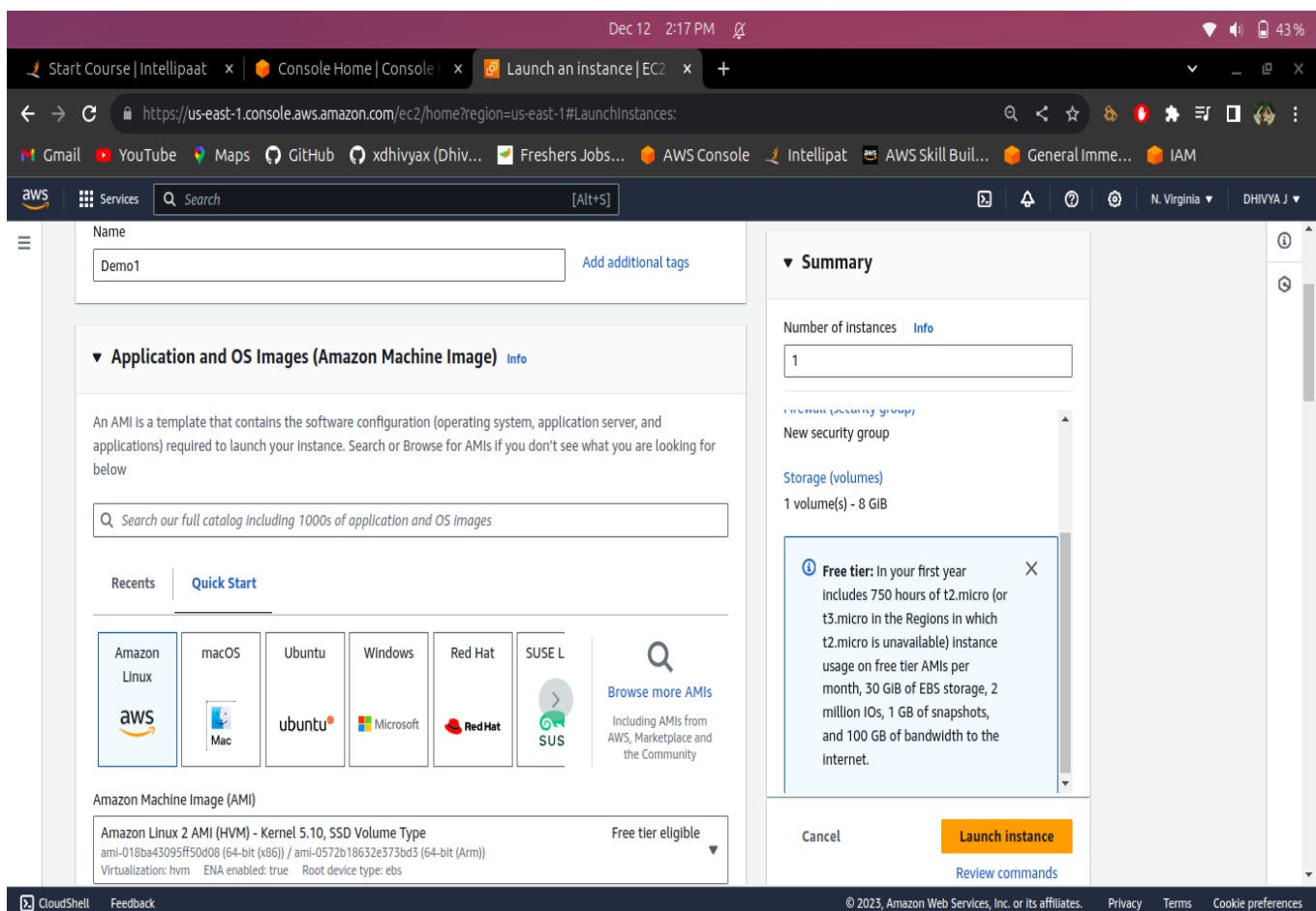




Module 2: EC2 and EFS Assignment

Tasks To Be Performed:

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.



Dec 12 3:51 PM

Start Course | Intellipaat x Console Home | Console x Launch an instance | EC2 x EFS | us-east-1 x +

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

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Name
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Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Red Hat Enterprise Linux 9 (HVM), SSD Volume Type
ami-023c11a32b0207432 (64-bit (x86)) / ami-09d5d0912f52f9514 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs Free tier eligible

▼ Summary

Number of Instances Info
1

Software Image (AMI)
Provided by Red Hat, Inc.
ami-023c11a32b0207432

Virtual server type (Instance type)
t2.micro

Firewall (security group)
ec2-efs-sg

Storage (volumes)
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

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Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

ami-0fc5d935ebf8bc3bc (64-bit (x86)) / ami-016485166ec7fa705 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

▼ Summary

Number of Instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more

ami-0fc5d935ebf8bc3bc

Virtual server type (Instance type)

t2.micro

Firewall (security group)

ec2-efs-sg

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year

Includes 750 hours of t2.micro (or t3.micro in the Regions in which

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https://us-east-1.console.aws.amazon.com/efs/home?region=us-east-1#/file-systems

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Elastic File System

- File systems
- Access points
- AWS Backup
- AWS DataSync
- AWS Transfer
- Documentation

Amazon EFS > File systems

File systems (1) View details Delete Create file system

Filter by property values

	Name	File system ID	Encrypte d	Total size	Size in Standard	Size in IA	Size in Archive
	DemoEFS	fs-01e20a9e174ccc919	✓ Encrypte d	6.00 KIB	6.00 KIB	0 Bytes	0 Bytes

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Launch an instance | EC2

Instances | EC2 | us-east-1

EC2 Instance Connect

EC2 Instance Connect

EFS | us-east-1

https://us-east-1.console.aws.amazon.com/efs/home?region=us-east-1#/file-systems/fs-01e20a9e174ccc919?tabId=mounts

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Elastic File System

File systems

Access points

AWS Backup

AWS DataSync

AWS Transfer

Documentation

Metered size Monitoring Tags File system policy Access points Network Replication

Network

Manage

zone	Mount target ID	Subnet ID	Mount target state	IP address	Network interface ID	Security groups
	fsmt-01fd5f5ec98020f45	subnet-04e03fc88e94c7a43	Available	172.31.12.107	eni-06172d3974aa6975f	sg-04a1751d90d198311 (EFSsecurityg roup)
	fsmt-0b6967447fefe03b0	subnet-0ef12bc63f174664d	Available	172.31.82.255	eni-0b4a627b0417c4cf0	sg-04a1751d90d198311 (EFSsecurityg roup)
	fsmt-0f0a97ad2544a62b8	subnet-070b3fe45e213f692	Available	172.31.24.16	eni-00426caf7d623861d	sg-04a1751d90d198311 (EFSsecurityg roup)

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```
Dec 12 7:13 PM
root@ip-172-31-91-124:/home/ec2-user

Verifying      : libverto-libev-0.3.2-3.el9.x86_64      2/11
Verifying      : quota-1:4.06-6.el9.x86_64             3/11
Verifying      : quota-nls-1:4.06-6.el9.noarch          4/11
Verifying      : rpcbind-1.2.6-5.el9.x86_64            5/11
Verifying      : keyutils-1.6.3-1.el9.x86_64           6/11
Verifying      : gssproxy-0.8.4-6.el9.x86_64           7/11
Verifying      : libnfsidmap-1:2.5.4-20.el9.x86_64      8/11
Verifying      : libtirpc-1.3.3-2.el9.x86_64           9/11
Verifying      : nfs-utils-1:2.5.4-20.el9.x86_64       10/11
Verifying      : sssd-nfs-idmap-2.9.1-4.el9_3.x86_64    11/11
Installed products updated.

Installed:
gssproxy-0.8.4-6.el9.x86_64      keyutils-1.6.3-1.el9.x86_64      libev-4.33-5.el9.x86_64
libnfsidmap-1:2.5.4-20.el9.x86_64  libtirpc-1.3.3-2.el9.x86_64      libverto-libev-0.3.2-3.el9.x86_64
nfs-utils-1:2.5.4-20.el9.x86_64  quota-1:4.06-6.el9.x86_64        quota-nls-1:4.06-6.el9.noarch
rpcbind-1.2.6-5.el9.x86_64      sssd-nfs-idmap-2.9.1-4.el9_3.x86_64

Complete!
[root@ip-172-31-91-124 ec2-user]# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsz=1048576,hard,timeo=600,retrans=2,noresvport fs-01e20a9e174ccc919.efs.us-east-1.amazonaws.com:/ demoefs
[root@ip-172-31-91-124 ec2-user]# df -h
Filesystem                                Size  Used Avail Use% Mounted on
devtmpfs                                 4.0M   0   4.0M   0% /dev
tmpfs                                    377M   0   377M   0% /dev/shm
tmpfs                                    151M  4.3M  147M   3% /run
/dev/xvda4                               9.2G   1.4G   7.8G  16% /
/dev/xvda3                               536M  161M  376M  30% /boot
/dev/xvda2                               200M   7.0M  193M   4% /boot/efi
tmpfs                                     76M    0    76M   0% /run/user/1000
fs-01e20a9e174ccc919.efs.us-east-1.amazonaws.com:/ 8.0E   0  8.0E   0% /home/ec2-user/demoefs
[root@ip-172-31-91-124 ec2-user]#
```


Dec 12 6:47 PM

Start Co x Console x Instance x EC2 Inst x EC2 Inst x EFS us x Mount x how to x Manual x +

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-034e3f5f883edd050...

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```

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-17-243:/home/ubuntu# ls
demoefs
root@ip-172-31-17-243:/home/ubuntu# sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-01e20a9e174ccc919.efs.us-east-1.amazonaws.com:/ demoefs
root@ip-172-31-17-243:/home/ubuntu# df -h

```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/root	7.6G	1.8G	5.8G	24%	/
tmpfs	475M	0	475M	0%	/dev/shm
tmpfs	190M	856K	190M	1%	/run
tmpfs	5.0M	0	5.0M	0%	/run/lock
/dev/xvda15	105M	6.1M	99M	6%	/boot/efi
tmpfs	95M	4.0K	95M	1%	/run/user/1000
fs-01e20a9e174ccc919.efs.us-east-1.amazonaws.com:/	8.0E	0	8.0E	0%	/home/ubuntu/demoefs

```

root@ip-172-31-17-243:/home/ubuntu#

```

i-034e3f5f883edd050 (Demo3)

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-00d815837c620814b&...

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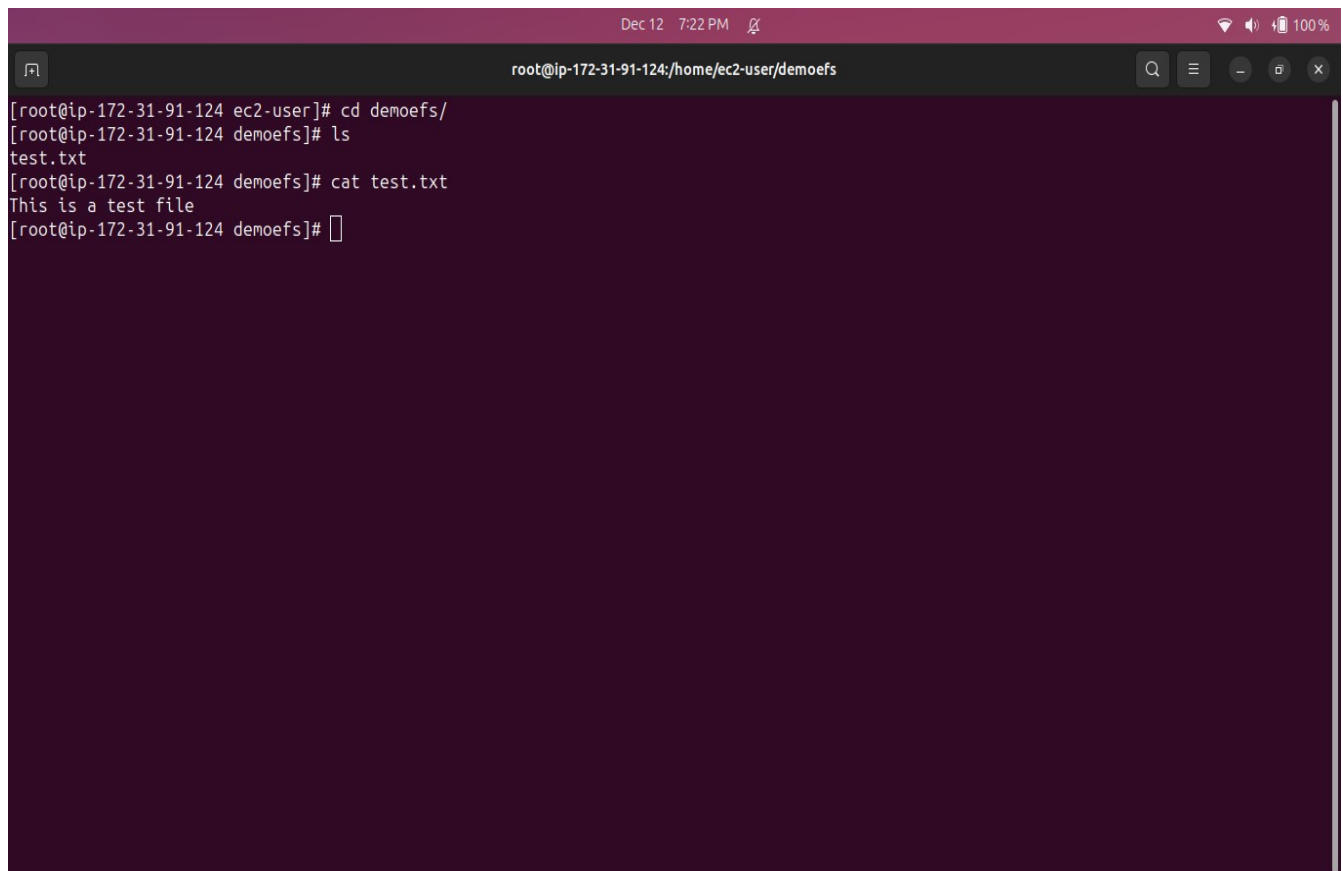
```
[root@ip-172-31-4-133 ec2-user]# cd demoefs/
[root@ip-172-31-4-133 demoefs]# echo "This is a test file" >test.txt
[root@ip-172-31-4-133 demoefs]# ls
test.txt
[root@ip-172-31-4-133 demoefs]# cat test.txt
This is a test file
[root@ip-172-31-4-133 demoefs]#
```

i-00d815837c620814b (Demo1)

PublicIPs: 3.236.188.250 PrivateIPs: 172.31.4.133

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A terminal window with a dark purple background and a light purple title bar. The title bar contains the text "Dec 12 7:22 PM" and a small icon. The terminal shows a series of commands and their outputs. The prompt is "[root@ip-172-31-91-124 ec2-user]#". The commands and outputs are: "cd demoefs/" (no output), "ls" (output: "test.txt"), "cat test.txt" (output: "This is a test file"), and a final prompt "[root@ip-172-31-91-124 demoefs]#". The terminal window has a standard macOS-style title bar with search, menu, and window control buttons.

```
Dec 12 7:22 PM
root@ip-172-31-91-124/home/ec2-user/demoefs
[root@ip-172-31-91-124 ec2-user]# cd demoefs/
[root@ip-172-31-91-124 demoefs]# ls
test.txt
[root@ip-172-31-91-124 demoefs]# cat test.txt
This is a test file
[root@ip-172-31-91-124 demoefs]#
```

Dec 12 7:23 PM

Launch an instance | EC2 | Instances | EC2 | us-east-1 | EC2 Instance Connect | EC2 Instance Connect | EFS | us-east-1

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```
root@ip-172-31-17-243:/home/ubuntu# cd demoefs/
root@ip-172-31-17-243:/home/ubuntu/demoefs# ls
test.txt
root@ip-172-31-17-243:/home/ubuntu/demoefs# cat test.txt
This is a test file
root@ip-172-31-17-243:/home/ubuntu/demoefs#
```

i-034e3f5f883edd050 (Demo3)

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