

Practical - 1

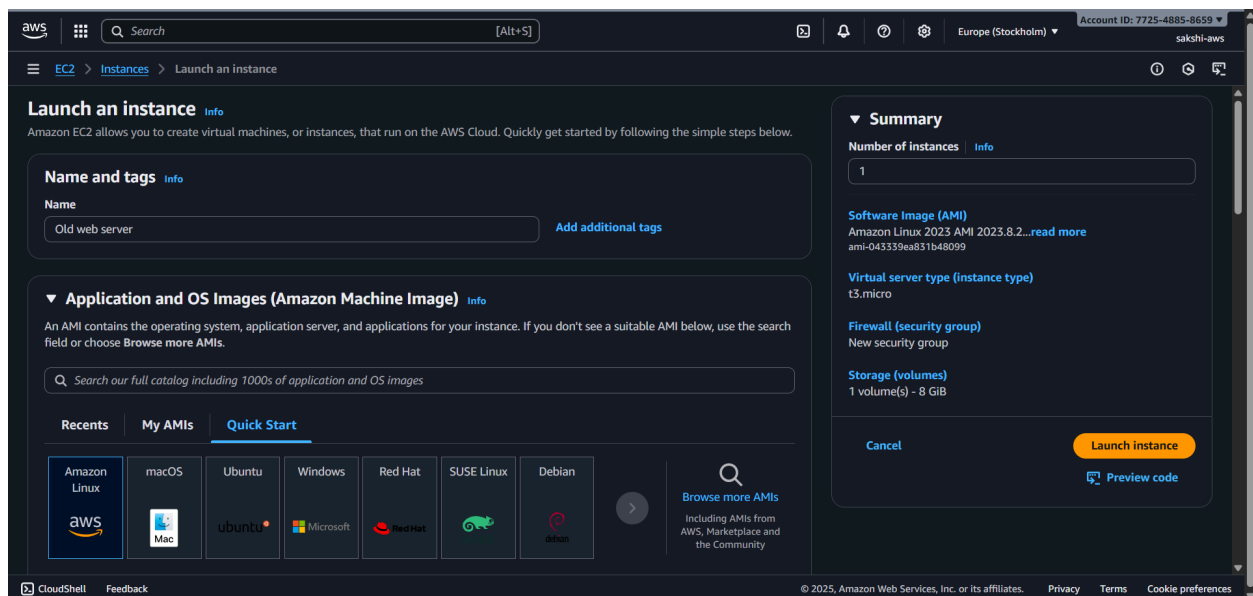
Name: Sakshi Rajendra Deshmukh

Class: CCF3

Roll no: 158

PRN: 202301040191

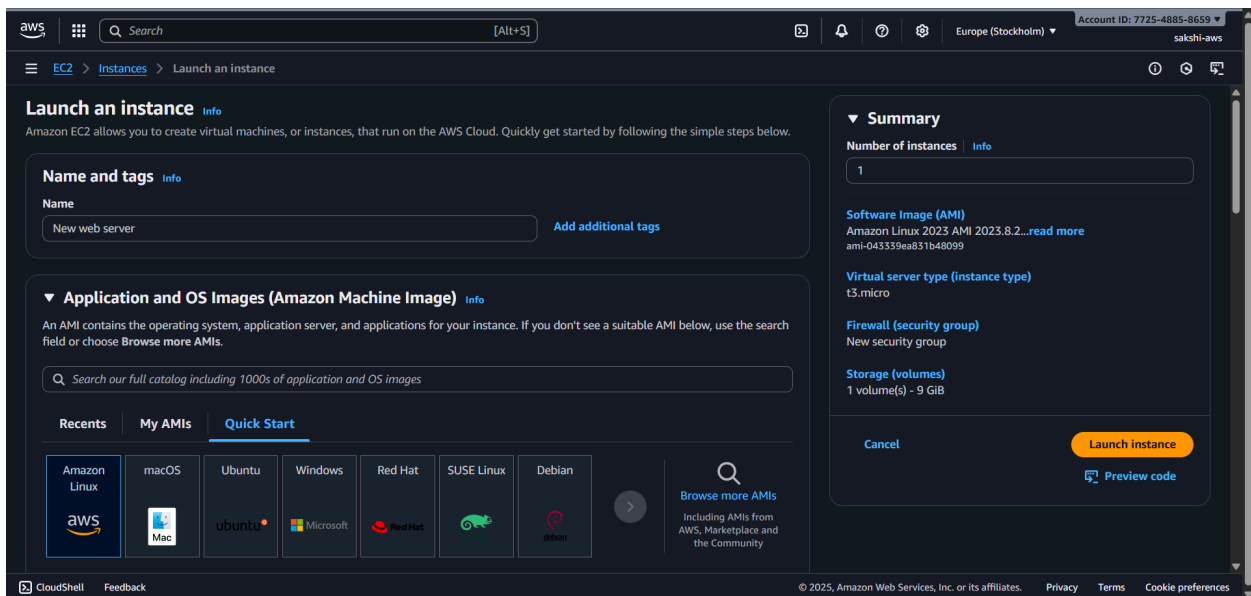
EC2 Key Pair Lost



Deleted key pair

[illegible]

Launching new instance



Changing to 9GB

Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Configure storage [Info](#) [Advanced](#)

1x 9 GiB gp3 Root volume, 3000 IOPS, Not encrypted

[Add new volume](#)

Click refresh to view backup information
The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems [Edit](#)

Advanced details [Info](#)

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.8.2...[read more](#)
ami-043339ea831b48099

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 9 GiB

[Cancel](#) [Launch instance](#) [Preview code](#)

Stopped old instance

Instances (2) [Info](#) Last updated 1 minute ago [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

Find Instance by attribute or tag (case-sensitive) All states

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input type="checkbox"/>	New web server	i-0a1a81354967801e5	Running	t3.micro	Initializing	View alarms +	eu-north-1b	ec2-16-1*
<input type="checkbox"/>	Old web server	i-0436e0c01f4ea7426	Stopped	t3.micro	3/3 checks passed	View alarms +	eu-north-1b	-

Select an instance

Detached volume of older instance

The screenshot shows the AWS Management Console interface for the 'Volumes' section. A green notification banner at the top states 'Successfully detached volume.' Below this, the 'Volumes (2)' section displays a table with two volumes. The first volume, 'vol-0e90bb12378ccaae3', is a gp3 type, 8 GiB in size, with 3000 IOPS and 125 throughput. The second volume, 'vol-07ce9e3ddf44f679e', is also a gp3 type, 9 GiB in size, with 3000 IOPS and 125 throughput. Both volumes are associated with the snapshot 'snap-0b6d7ef...'. The console also shows a 'Snapshot summary' section indicating 0 out of 2 volumes are backed up, and a 'Data Lifecycle Manager default policy for EBS Snapshots status' section showing no default policy is set up.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
	vol-0e90bb12378ccaae3	gp3	8 GiB	3000	125	snap-0b6d7ef...	2025/09/30 21:35 GMT+5:...
	vol-07ce9e3ddf44f679e	gp3	9 GiB	3000	125	snap-0b6d7ef...	2025/09/30 22:00 GMT+5:...

Attaching older volume to newer instance

The screenshot shows the AWS Management Console interface for the 'Volumes' section. A green notification banner at the top states 'Successfully attached volume vol-0e90bb12378ccaae3 to instance i-0a1a81354967801e5.' Below this, the 'Volumes (2)' section displays a table with two volumes. The first volume, 'vol-0e90bb12378ccaae3', is a gp3 type, 8 GiB in size, with 3000 IOPS and 125 throughput. The second volume, 'vol-07ce9e3ddf44f679e', is also a gp3 type, 9 GiB in size, with 3000 IOPS and 125 throughput. Both volumes are associated with the snapshot 'snap-0b6d7ef...'. The console also shows a 'Snapshot summary' section indicating 0 out of 2 volumes are backed up, and a 'Data Lifecycle Manager default policy for EBS Snapshots status' section showing no default policy is set up.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
	vol-0e90bb12378ccaae3	gp3	8 GiB	3000	125	snap-0b6d7ef...	2025/09/30 21:35 GMT+5:...
	vol-07ce9e3ddf44f679e	gp3	9 GiB	3000	125	snap-0b6d7ef...	2025/09/30 22:00 GMT+5:...

Connecting to newer instance

```
[ec2-user@ip-172-31-33-198:~] ssh -i "new-key-pair.pem" ec2-user@ec2-16-170-252-193.eu-north-1.compute.amazonaws.com
```

```
deshm@LAPTOP-GUBJ3GL3 MINGW64 ~/downloads  
$ ssh -i "new-key-pair.pem" ec2-user@ec2-16-170-252-193.eu-north-1.compute.amazonaws.com
```

```
#  
##### Amazon Linux 2023  
#####  
\###|  
\#/  
V ~' '->  
  
~~~~~  
~~-._-/_/~-_/_/~/m/''->
```

```
[ec2-user@ip-172-31-33-198 ~]$ lsblk
```

NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINTS
nvme0n1	259:0	0	9G	0	disk	
—nvme0n1p1	259:1	0	9G	0	part /	
—nvme0n1p127	259:2	0	1M	0	part	
—nvme0n1p128	259:3	0	10M	0	part /boot/efi	
nvme1n1	259:4	0	8G	0	disk	
—nvme1n1p1	259:5	0	8G	0	part	
—nvme1n1p127	259:6	0	1M	0	part	
—nvme1n1p128	259:7	0	10M	0	part	

```
[ec2-user@ip-172-31-33-198 ~]$
```

Mounting Volume

```

ec2-user@ip-172-31-33-198:~
[ec2-user@ip-172-31-33-198 ~]$ lsblk
NAME            MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
nvme0n1         259:0    0   9G  0 disk
├─nvme0n1p1     259:1    0   9G  0 part /
├─nvme0n1p127   259:2    0  1M  0 part
└─nvme0n1p128   259:3    0 10M  0 part /boot/efi
nvme1n1         259:4    0   8G  0 disk
├─nvme1n1p1     259:5    0   8G  0 part
├─nvme1n1p127   259:6    0  1M  0 part
└─nvme1n1p128   259:7    0 10M  0 part
[ec2-user@ip-172-31-33-198 ~]$ ls /mnt
[ec2-user@ip-172-31-33-198 ~]$ sudo mount -o rw,nouuid /dev/nvme1n1p1 /mnt
[ec2-user@ip-172-31-33-198 ~]$ ls /mnt
bin  dev  home  lib64  media  opt  root  sbin  sys  usr
boot  etc  lib   local  mnt    proc  run   srv   tmp  var
[ec2-user@ip-172-31-33-198 ~]$

```

Copying newer instances ssh keys to older instances volumes

```
deshm@LAPTOP-GUBJ3GL3 MINGW64 ~/downloads
$ ssh -i "new-key-pair.pem" ec2-user@ec2-13-60-55-204.eu-north-1.compute.amazonaws.com


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

Last login: Tue Sep 30 17:32:15 2025 from 104.28.252.197
[ec2-user@ip-172-31-33-198 ~]$ ls /mnt
bin dev home lib64 media opt root sbin sys usr
boot etc lib local mnt proc run srv tmp var
[ec2-user@ip-172-31-33-198 ~]$ cat /home/ec2-user/.ssh/authorized_keys >> /mnt/home/ec2-user/.ssh/autho
rized_keys
cat: /home/ec2-user/.ssh/authorized_keys: input file is output file
[ec2-user@ip-172-31-33-198 ~]$ umount /mnt
umount: /mnt: must be superuser to unmount.
[ec2-user@ip-172-31-33-198 ~]$ sudo umount /mnt
[ec2-user@ip-172-31-33-198 ~]$ logout
Connection to ec2-13-60-55-204.eu-north-1.compute.amazonaws.com closed.





deshm@LAPTOP-GUBJ3GL3 MINGW64 ~/downloads
$
```

Attaching volume back to older instance

aws



[Alt+S]

Europe (Stockholm)

Account ID: 7725-4885-8659 sakshi-aws

EC2

Volumes

vol-0e90bb12378ccaae3

Attach volume

Attach volume Info

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID

vol-0e90bb12378ccaae3


Availability Zone

eu-north-1b

Instance Info

I-0436e0c01f4ea7426


(Old web server) (stopped)



Device name Info

/dev/xvda

Recommended device names for Linux: /dev/xvda for root volume, /dev/sd[f-p] for data volumes.

 Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel

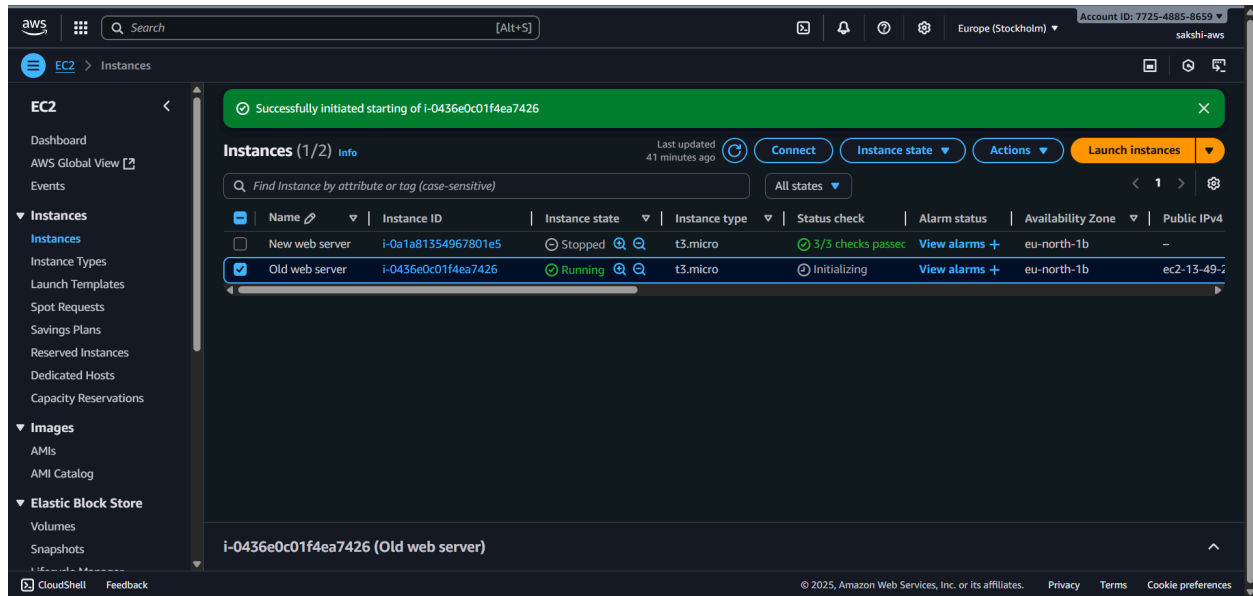
Attach volume

CloudShell

Feedback

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Starting older instance



Used newer instance ssh key to connect to older instance

```
ec2-user@ip-172-31-43-39:~  
deshm@LAPTOP-GUBJ3GL3 MINGW64 ~/downloads  
$ ssh -i "new-key-pair.pem" ec2-user@13.60.230.90  
The authenticity of host '13.60.230.90 (13.60.230.90)' can't be established.  
ED25519 key fingerprint is SHA256:T0/BxWamFftN08eyfrHyMtxxERHl5hnBvTl+RGmxRP4.  
This host key is known by the following other names/addresses:  
  ~/.ssh/kknown_hosts:12: ec2-13-60-55-204.eu-north-1.compute.amazonaws.com  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '13.60.230.90' (ED25519) to the list of known hosts.  
  
#_  
~\##### Amazon Linux 2023  
~~~\#####\  
~~~\####|  
~~~\##/  
~~~~\#/_____  
~~~~V~'-'>  
~~~~~  
~~~~.-.-  
~~~~-/_____  
~~~~/_m/'_____
```

```
Last login: Tue Sep 30 17:35:37 2025 from 103.199.139.12  
[ec2-user@ip-172-31-43-39 ~]$ ls  
sakshi  
[ec2-user@ip-172-31-43-39 ~]$ |
```