

Task 3: Lost Pem key then Open a File

The screenshot shows the AWS Management Console with the 'Instances' page selected. A list of EC2 instances is displayed, with the instance 'pemkeychang...' (ID: i-007e063e99b7d38de) selected. The details pane for this instance is open, showing various configuration details. A red box highlights the 'Key pair name' field, which is 'testinstance', with a label 'Current Key Name' pointing to it.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
jenkins integr...	i-0047412907aaf11115	Stopped	t2.micro	-	No alarms	ap-south-1a	-
-	i-0df738447de04246	Stopped	t2.micro	-	No alarms	ap-south-1a	-
test	i-03069e9bec31fc615	Stopped	t2.micro	-	No alarms	ap-south-1b	-
windowinstance	i-080ee1c12eba99b8b	Stopped	t2.micro	-	No alarms	ap-south-1b	-
terraform	i-00f7e475c233177a8	Stopped	t2.micro	-	No alarms	ap-south-1b	-
Ansible Testing	i-0df175483b40d4c16	Stopped	t2.micro	-	No alarms	ap-south-1b	-
Jenkins-Master	i-0e5e0f292187cd685	Stopped	t2.micro	-	No alarms	ap-south-1b	-
pemkeychang...	i-007e063e99b7d38de	Stopped	t2.micro	-	No alarms	ap-south-1b	-

Instance: i-007e063e99b7d38de (pemkeychangetask3)

Stop-hibernate behavior: disabled

State transition reason: User initiated (2021-08-09 07:35:54 GMT)

State transition message: Client.UserInitiatedShutdown: User initiated shutdown

AMI Launch index: 0

Credit specification: standard

Usage operation: RunInstances

Key pair name: testinstance

Kernel ID: -

RAM disk ID: -

The screenshot shows the AWS Management Console with the 'Instances' page selected. The instance 'pemkeychang...' (ID: i-007e063e99b7d38de) is selected. The details pane for this instance is open, showing various configuration details. A red box highlights the 'Block devices' section, which lists the volume 'vol-0fb09011a4263ffe2' with a label 'Volume Name with ID' pointing to it.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
windowinstance	i-080ee1c12eba99b8b	Stopped	t2.micro	-	No alarms	ap-south-1b	-
terraform	i-00f7e475c233177a8	Stopped	t2.micro	-	No alarms	ap-south-1b	-
Ansible Testing	i-0df175483b40d4c16	Stopped	t2.micro	-	No alarms	ap-south-1b	-
Jenkins-Master	i-0e5e0f292187cd685	Stopped	t2.micro	-	No alarms	ap-south-1b	-
pemkeychang...	i-007e063e99b7d38de	Stopped	t2.micro	-	No alarms	ap-south-1b	-

Instance: i-007e063e99b7d38de (pemkeychangetask3)

Block devices

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-0fb09011a4263ffe2	/dev/xvda	8	Attached	Mon Aug 09 2021 12:01:45...	No	-

Recent root volume replacement tasks

Task 3: Lost Pem key then Open a File

The first screenshot shows the AWS Management Console with the 'Volumes' page selected. A context menu is open over a volume, with 'Detach Volume' highlighted. The volume details show it is attached to an instance in the 'in-use' state.

The second screenshot shows the 'Attach Volume' dialog box. The volume 'vol-0fb09011a4263ffe2' is selected. A list of instances is shown, all of which are in a 'stopped' state. The 'Attach' button is visible.

Attach Volume Dialog Details:

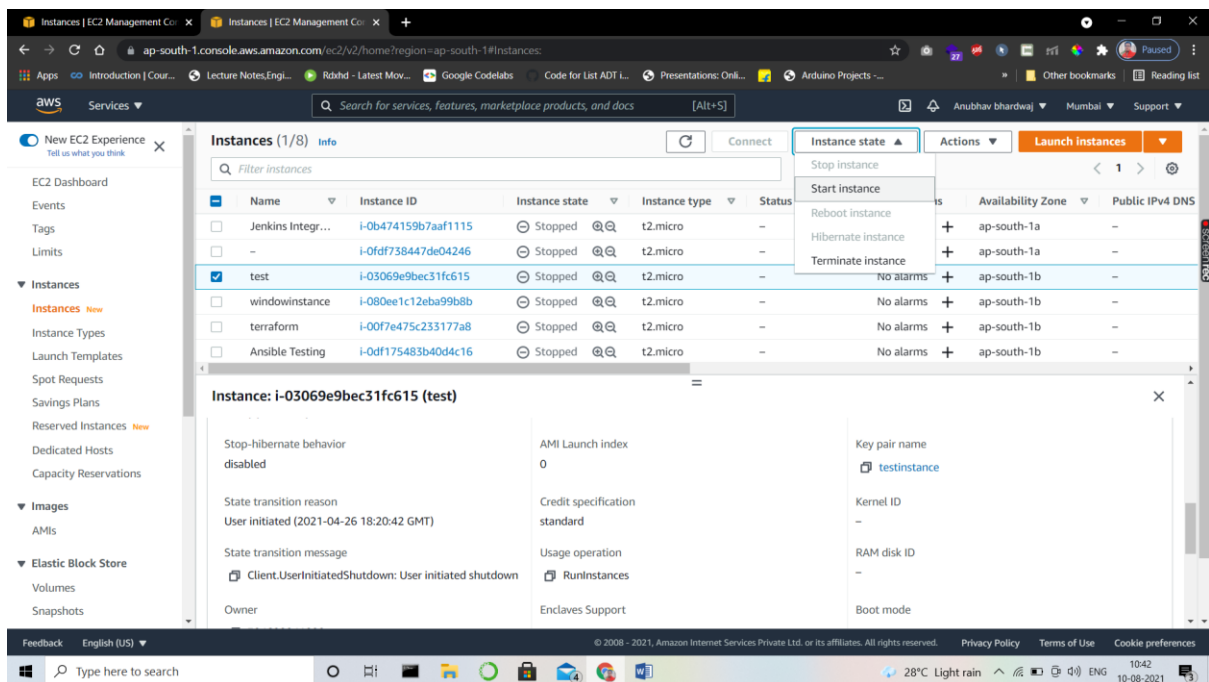
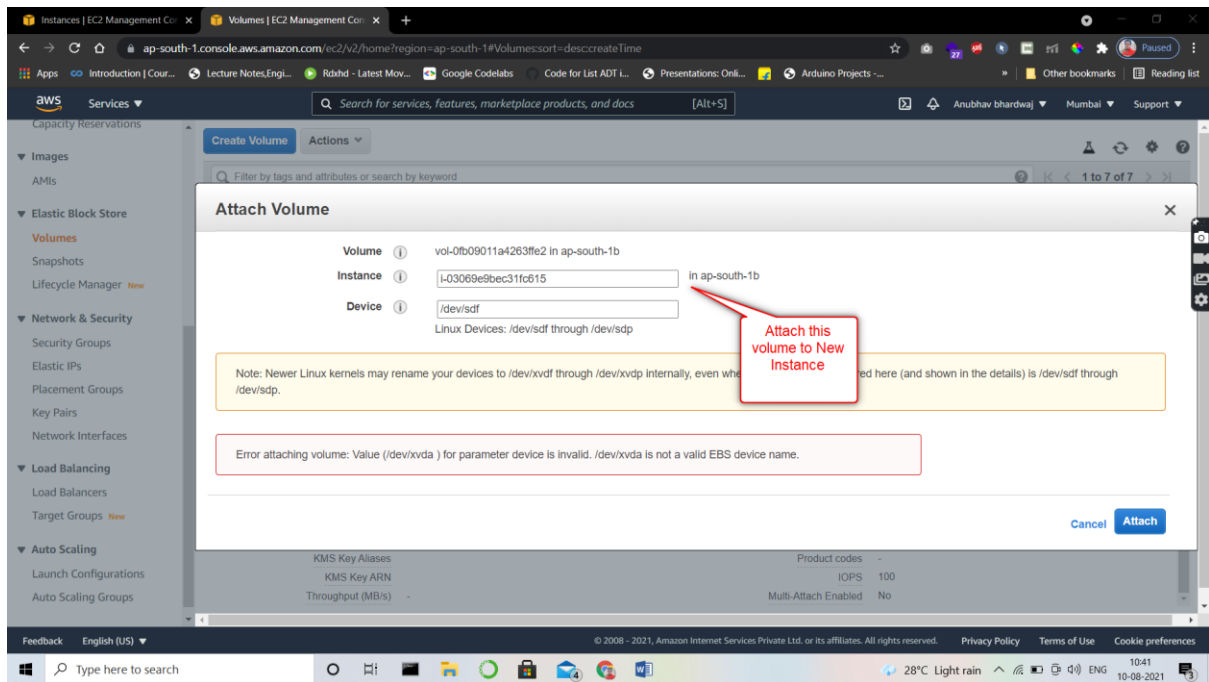
- Volume: vol-0fb09011a4263ffe2 in ap-south-1b
- Instance: Search instance ID or Name tag in ap-south-1b
- Device: (empty)

Instance List:

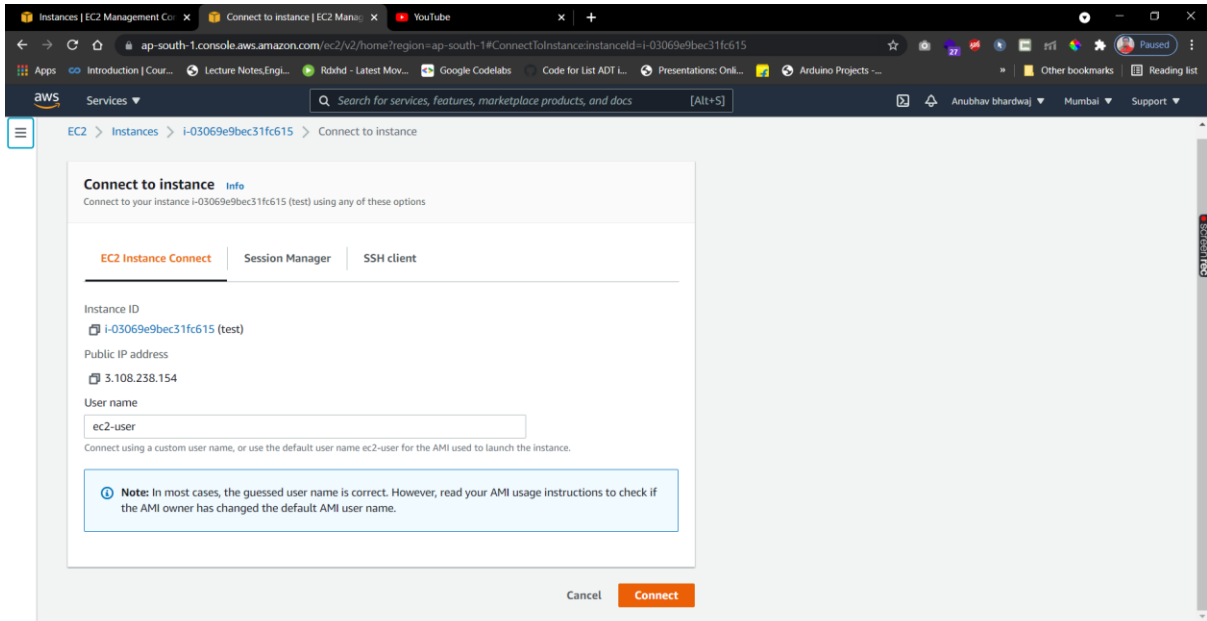
- I-03069e9bec31fd15 (test) (stopped)
- I-080ee1c12eba99b8b (windowinstance) (stopped)
- I-007fe475c233177a8 (terraform) (stopped)
- I-0df175483b40d4c16 (Ansible Testing) (stopped)
- I-0e5e0f292187cd985 (Jenkins-Master) (stopped)
- I-007e063e99b7d38de (pemkeychangetask3) (stopped)

Attached to Any Instance of which you have key (Pem File) and login that instance

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Connect to instance [Info](#)

Connect to your instance i-03069e9bec31fc615 (test) using any of these options

EC2 Instance Connect | Session Manager | SSH client

Instance ID
i-03069e9bec31fc615 (test)

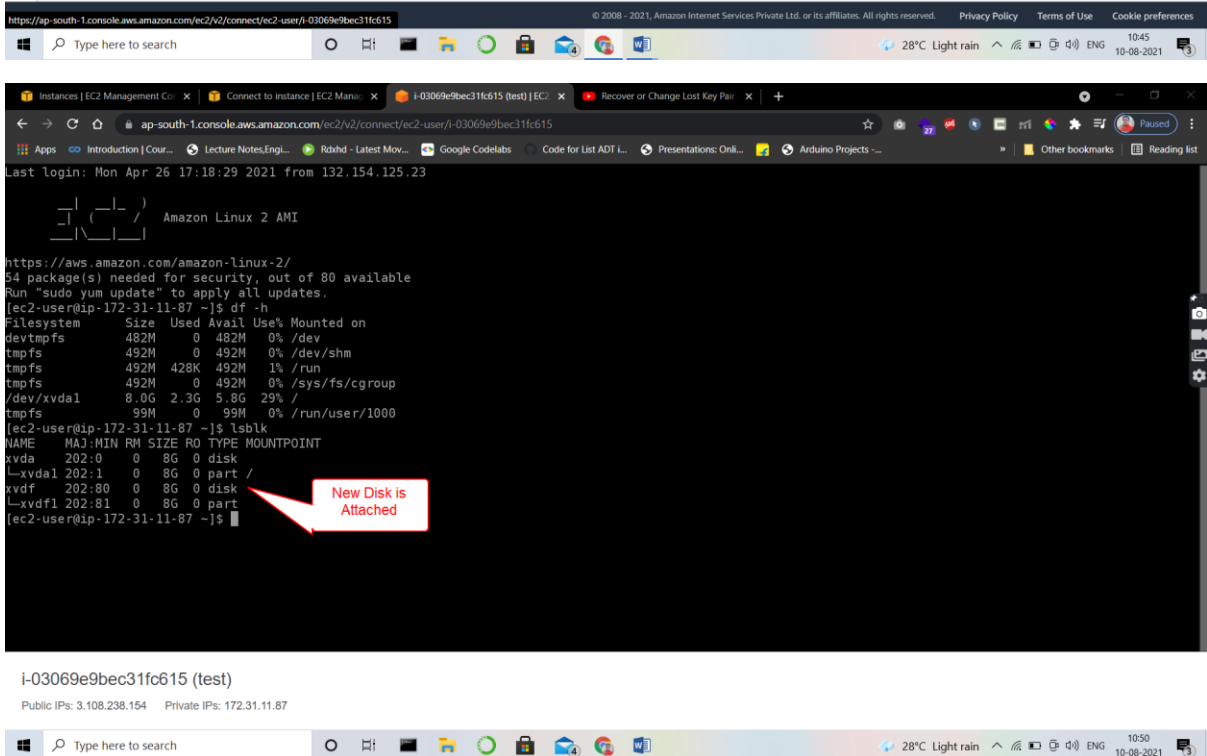
Public IP address
3.108.238.154

User name
ec2-user

Connect using a custom user name, or use the default user name ec2-user for the AMI used to launch the instance.

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel **Connect**



https://ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-03069e9bec31fc615

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Type here to search

28°C Light rain 10:45 10-08-2021

Instances | EC2 Management Console | Connect to instance | EC2 Instance Connect | i-03069e9bec31fc615 | Recover or Change Lost Key Pair

ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-03069e9bec31fc615

Last login: Mon Apr 26 17:18:29 2021 from 132.154.125.23

```

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Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
64 package(s) needed for security, out of 80 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-11-87 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        482M   0  482M   0% /dev
tmpfs           492M   0  492M   0% /dev/shm
tmpfs           492M 428K  492M   1% /run
tmpfs           492M   0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  2.3G   5.8G  29% /
tmpfs           99M   0   99M   0% /run/user/1000
[ec2-user@ip-172-31-11-87 ~]$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
xvda        202:0    0    8G  0 disk 
└─xvda1     202:1    0    8G  0 part /
xvdf        202:80   0    8G  0 disk 
└─xvdf1     202:81   0    8G  0 part 
[ec2-user@ip-172-31-11-87 ~]$
```

New Disk is Attached

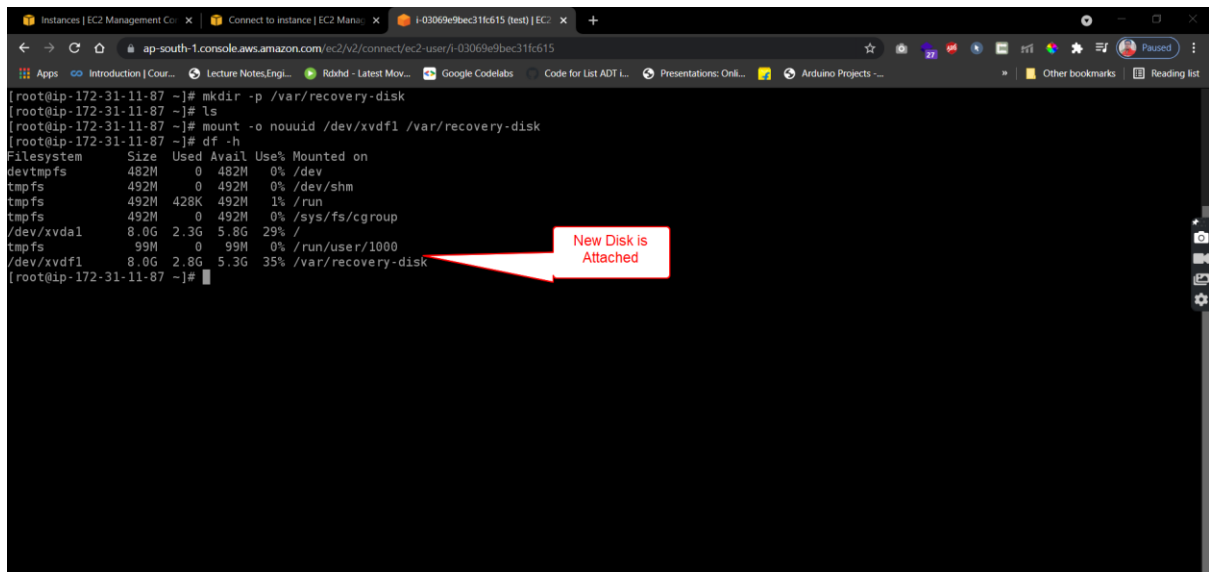
i-03069e9bec31fc615 (test)

Public IPs: 3.108.238.154 Private IPs: 172.31.11.87

Type here to search

28°C Light rain 10:50 10-08-2021

Task 3: Lost Pem key then Open a File



The screenshot shows a terminal window connected to an EC2 instance. The user has created a directory, mounted a new disk, and run 'df -h'. A red callout points to the new disk entry in the output.

```
[root@ip-172-31-11-87 ~]# mkdir -p /var/recovery-disk
[root@ip-172-31-11-87 ~]# ls
[root@ip-172-31-11-87 ~]# mount -o nouuid /dev/xvdf1 /var/recovery-disk
[root@ip-172-31-11-87 ~]# df -h
```

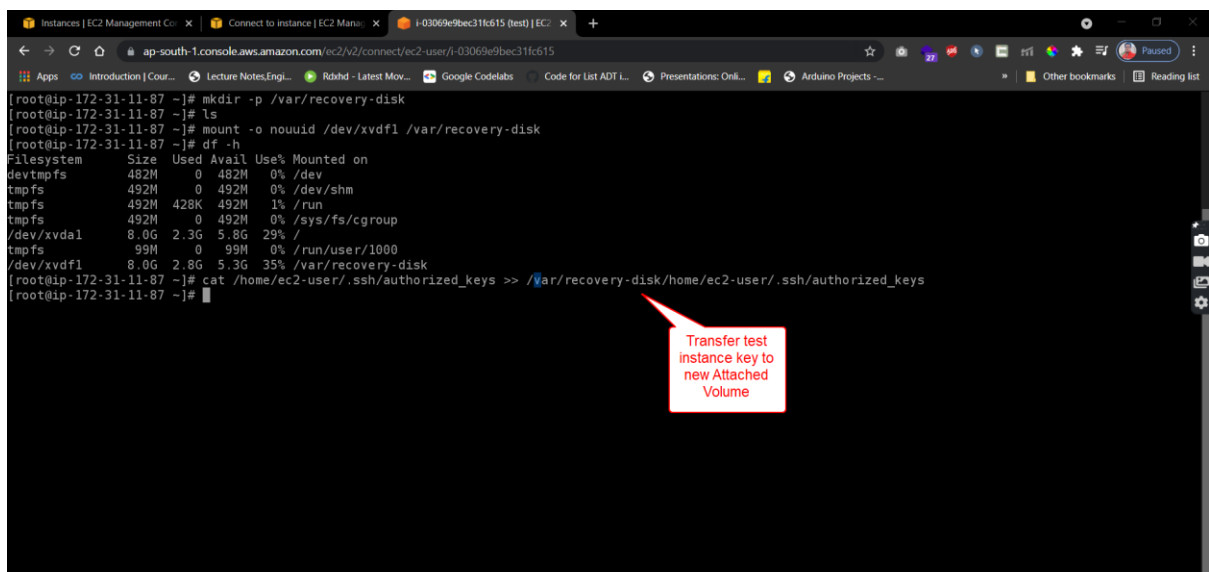
Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	482M	0	482M	0%	/dev
tmpfs	492M	0	492M	0%	/dev/shm
tmpfs	492M	428K	492M	1%	/run
tmpfs	492M	0	492M	0%	/sys/fs/cgroup
/dev/xvda1	8.0G	2.3G	5.8G	29%	/
tmpfs	99M	0	99M	0%	/run/user/1000
/dev/xvdf1	8.0G	2.8G	5.3G	35%	/var/recovery-disk

New Disk is Attached

i-03069e9bec31fc615 (test)

Public IPs: 3.108.238.154 Private IPs: 172.31.11.87

cat /home/ec2-user/.ssh/authorized_keys >> /var/recovery-disk/home/ec2-user/.ssh/authorized_keys



The screenshot shows the terminal window with the previous commands repeated, followed by the command to append the authorized keys. A red callout points to the command.

```
[root@ip-172-31-11-87 ~]# mkdir -p /var/recovery-disk
[root@ip-172-31-11-87 ~]# ls
[root@ip-172-31-11-87 ~]# mount -o nouuid /dev/xvdf1 /var/recovery-disk
[root@ip-172-31-11-87 ~]# df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	482M	0	482M	0%	/dev
tmpfs	492M	0	492M	0%	/dev/shm
tmpfs	492M	428K	492M	1%	/run
tmpfs	492M	0	492M	0%	/sys/fs/cgroup
/dev/xvda1	8.0G	2.3G	5.8G	29%	/
tmpfs	99M	0	99M	0%	/run/user/1000
/dev/xvdf1	8.0G	2.8G	5.3G	35%	/var/recovery-disk

```
[root@ip-172-31-11-87 ~]# cat /home/ec2-user/.ssh/authorized_keys >> /var/recovery-disk/home/ec2-user/.ssh/authorized_keys
[root@ip-172-31-11-87 ~]#
```

Transfer test instance key to new Attached Volume

i-03069e9bec31fc615 (test)

Public IPs: 3.108.238.154 Private IPs: 172.31.11.87

umount /var/recovery-disk

Task 3: Lost Pem key then Open a File

The screenshot shows a terminal window with the following commands and output:

```

[root@ip-172-31-11-87 ~]# mkdir -p /var/recovery-disk
[root@ip-172-31-11-87 ~]# ls
[root@ip-172-31-11-87 ~]# mount -o nouuid /dev/xvdf1 /var/recovery-disk
[root@ip-172-31-11-87 ~]# df -h

Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        482M   0  482M   0% /dev
tmpfs           492M   0  492M   0% /dev/shm
tmpfs           492M  428K  492M   1% /run
tmpfs           492M   0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  2.3G  5.8G  29% /
tmpfs           99M   0   99M   0% /run/user/1000
/dev/xvdf1      8.0G  2.8G  5.3G  35% /var/recovery-disk
[root@ip-172-31-11-87 ~]# cat /home/ec2-user/.ssh/authorized_keys >> /var/recovery-disk/home/ec2-user/.ssh/authorized_keys
[root@ip-172-31-11-87 ~]# umount /var/recovery-disk
-bash: umount: command not found
[root@ip-172-31-11-87 ~]# umount /var/recovery-disk
[root@ip-172-31-11-87 ~]# df -h

Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        482M   0  482M   0% /dev
tmpfs           492M   0  492M   0% /dev/shm
tmpfs           492M  428K  492M   1% /run
tmpfs           492M   0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  2.3G  5.8G  29% /
tmpfs           99M   0   99M   0% /run/user/1000
[root@ip-172-31-11-87 ~]#
  
```

A red arrow points from the text "Detach the Voulume" (note the typo) to the command `umount /var/recovery-disk` in the terminal output.

i-03069e9bec31fc615 (test)

Public IPs: 3.108.238.154 Private IPs: 172.31.11.87

The screenshot displays the AWS Management Console interface. The main content area shows a list of EBS volumes. A context menu is open over the volume 'vol-0fb09011a4263ffe2', listing actions such as 'Modify Volume', 'Create Snapshot', 'Delete Volume', 'Attach Volume', 'Detach Volume', 'Force Detach Volume', 'Change Auto-Enable IO Setting', and 'Add/Edit Tags'. The volume details for 'vol-0fb09011a4263ffe2' are shown at the bottom, including its ID, alarm status, snapshot, and availability zone.

Name	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State	
Ansible Test	8 GiB	gp2	100	-	snap-0bdc50...	August 6, 2021 at 1...	ap-south-1b	available	
	8 GiB	gp2	100	-	snap-0bdcc50...	August 5, 2021 at 1...	ap-south-1b	in-use	
	8 GiB	gp2	100	-	snap-0bdcc50...	July 31, 2021 at 1.4...	ap-south-1a	in-use	
	8 GiB	gp2	100	-	snap-0a709e9...	July 4, 2021 at 5:03...	ap-south-1a	in-use	
	vol-087bf9a90c360c5a9	8 GiB	gp2	100	-	snap-0aa15f5b...	May 15, 2021 at 1:0...	ap-south-1b	in-use
	vol-0080aab41af24c96	8 GiB	gp2	100	-	snap-0b55bb7...	April 25, 2021 at 10...	ap-south-1b	in-use

Volumes: vol-0fb09011a4263ffe2

Description	Status Checks	Monitoring	Tags
Volume ID	vol-0fb09011a4263ffe2	Outposts ARN	-
Alarm status	None	Size	8 GiB
Snapshot	snap-08ecd969060170442	Created	August 9, 2021 at 12:01:45 PM UTC+5:30
Availability Zone	ap-south-1b	State	in-use

Task 3: Lost Pem key then Open a File

The screenshot shows the AWS Management Console interface. The 'Attach Volume' dialog box is open, displaying the following information:

- Volume:** vol-0fb09011a4263ffe2 in ap-south-1b
- Instance:** i-007e063e99b7d38de in ap-south-1b
- Device:** /dev/xvda

A red callout box points to the 'Instance' field with the text: "Attached to the old instance of which we lost our Key". Below the fields, a note states: "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." The 'Attach' button is visible at the bottom right of the dialog.

The screenshot shows the AWS Management Console interface. The 'Instances' list is displayed, showing several instances. The instance 'pemkeychang...' (ID: i-007e063e99b7d38de) is selected. The 'Instance details' panel for this instance is shown below the list.

Instances (1/8)

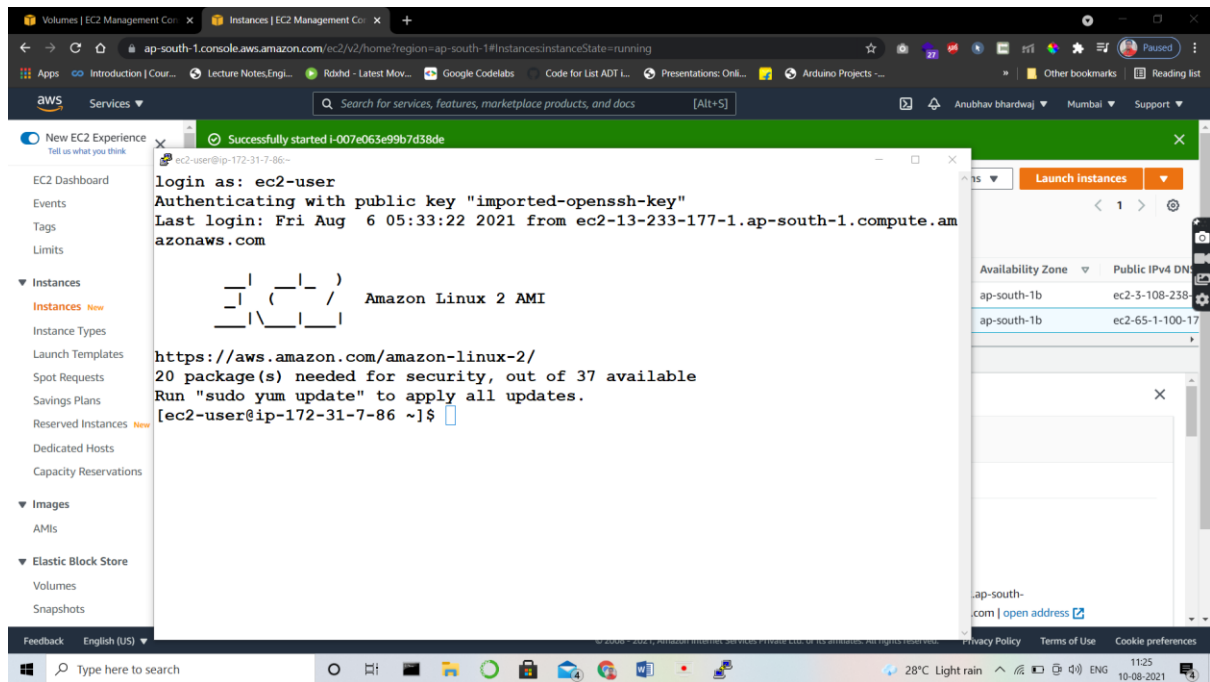
Name	Instance ID	Instance state	Instance type	Status
windowinstance	i-080ee1c12eba99b8b	Stopped	t2.micro	-
terraform	i-00f7e475c235177a8	Stopped	t2.micro	-
Ansible Testing	i-0df175483b40d4c16	Stopped	t2.micro	-
Jenkins-Master	i-0e5e0f292187cd685	Stopped	t2.micro	-
pemkeychang...	i-007e063e99b7d38de	Stopped	t2.micro	-

Instance: i-007e063e99b7d38de (pemkeychangetask3)

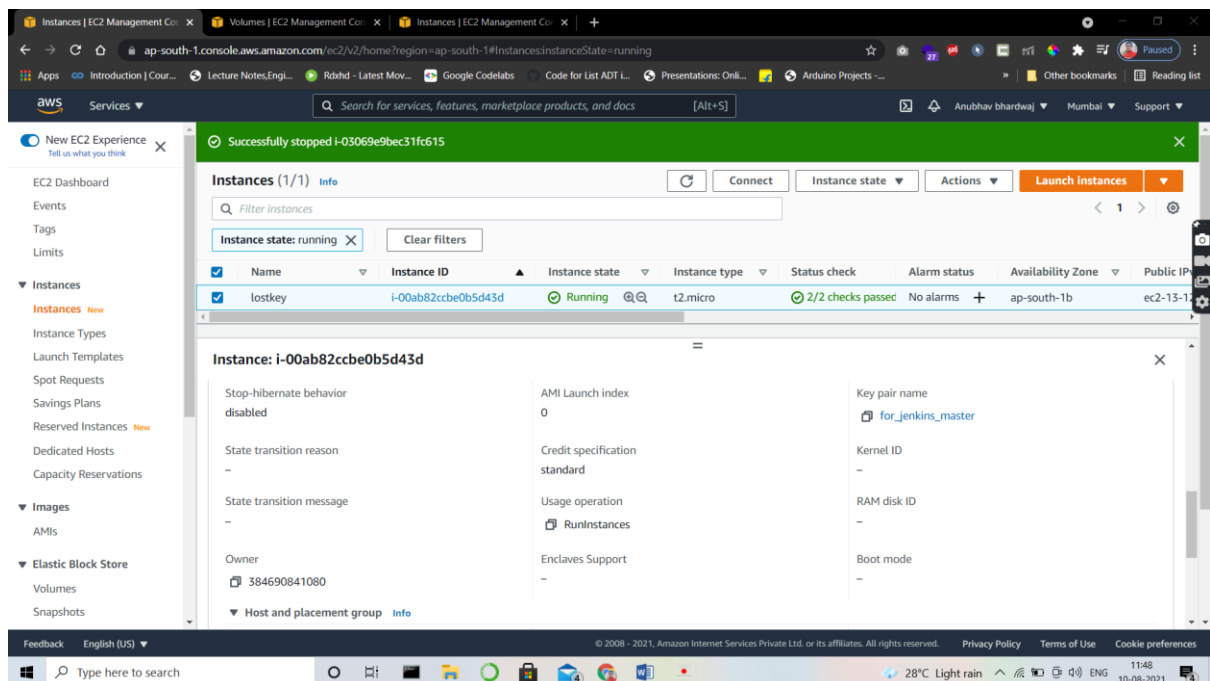
Block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-0fb09011a4263ffe2	/dev/xvda	8	Attached	Mon Aug 09 2021 12:01:45...	No	-

Task 3: Lost Pem key then Open a File



For More Confirmation We can attach this volume other instance too for Login



Task 3: Lost Pem key then Open a File

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page is active, displaying a list of instances. The instance 'lostkey' (ID: i-00ab82ccbe0b5d43d) is highlighted. The instance details panel shows the root device details and block devices. The root device is a 8 GiB EBS volume (vol-02a59246d8b1494f3) attached to the instance. The instance is in the 'Running' state with 2/2 checks passed.

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-02a59246d8b1494f3	/dev/xvda	8	Attached	Tue Aug 10 2021 11:46:09 ...	No	-

This Instance (**For lostkey**) has Key (**for_Jenkins_master**) with volume 94f3

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Volumes' page is active, displaying a list of volumes. A modal dialog box titled 'Detach Volume' is open, asking 'Are you sure you want to detach this volume?' for the volume 'vol-02a59246d8b1494f3'. The dialog has 'Cancel' and 'Yes, Detach' buttons.

Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State
vol-02a59246d8b1494f3	vol-02a59246d8b1494f3	8 GiB	gp2	100	-	snap-0bdcc50b291983cea	August 10, 2021 at 11:46:09 AM UTC+5:30	ap-south-1b	in-use

Task 3: Lost Pem key then Open a File

The screenshot shows the AWS Management Console with the 'Attach Volume' dialog box open. The dialog box has the following fields:

- Volume: vol-0fb09011a4263fe2 in ap-south-1b
- Instance: i-00ab82ccbe0b5d43d in ap-south-1b
- Device: /dev/xvda

A red callout box points to the 'Instance' field with the text: "Attached to volume of other instance for login with different key".

Below the fields, there is a note: "Note: 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."

The dialog box has 'Cancel' and 'Attach' buttons.

The screenshot shows the AWS Management Console with the 'Instances' page. The instance 'i-00ab82ccbe0b5d43d' is selected, and its state is 'running'. A red callout box points to the 'Key pair' field with the text: "We are attaching test key but set key is for_jenkinsmaster".

The 'PuTTY Configuration' dialog box is open, showing the 'SSH' section. The 'Authentication' tab is selected, and the 'Private key file for authentication' field is set to 'c:\Users\Anubhav\Documents\test-instance-key.ppk'. The 'Authentication methods' section has the following options:

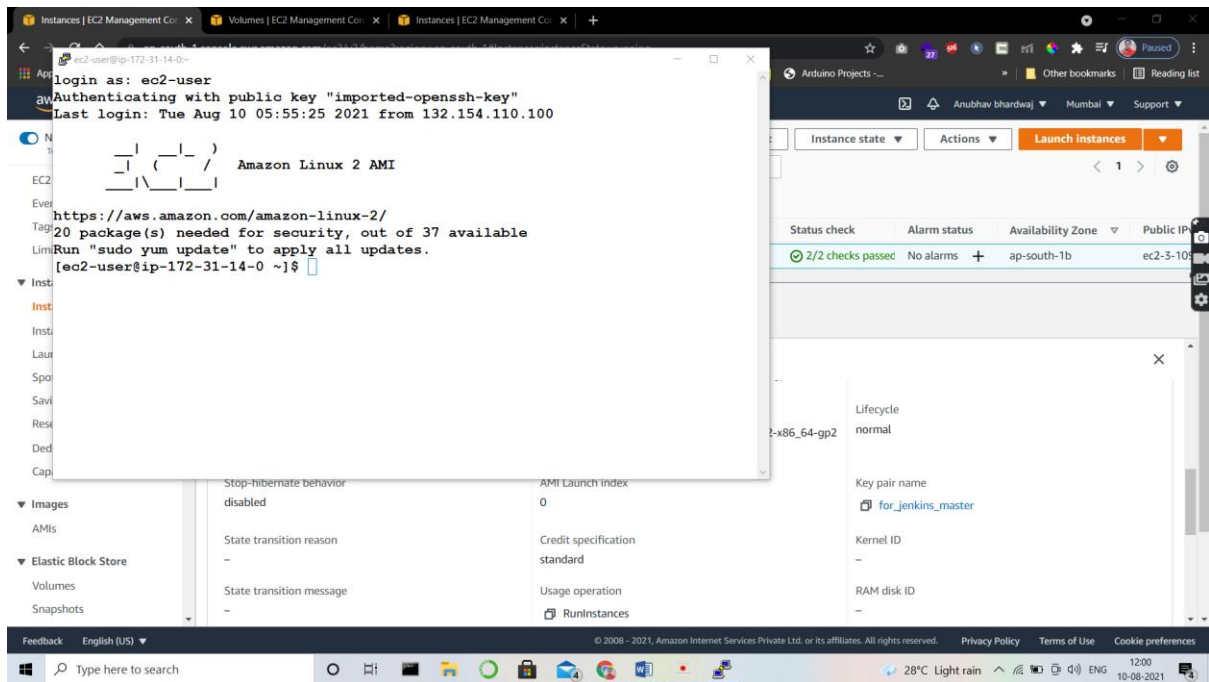
- ☐ Bypass authentication entirely (SSH+2 only)
- ☐ Display pre-authentication banner (SSH+2 only)
- ☒ Attempt authentication using Pageant
- ☐ Attempt TIS or CryptoCard auth (SSH+1)
- ☐ Attempt "keyboard-interactive" auth (SSH+2)

The 'Authentication parameters' section has the following options:

- ☐ Allow agent forwarding
- ☐ Allow attempted changes of username in SSH-2

The 'Private key file for authentication' field is set to 'c:\Users\Anubhav\Documents\test-instance-key.ppk'.

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Thanks You