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Name	EC2 Unencrypted EBS disks
URL	https://attackdefense.com/challengedetails?cid=2452
Type	AWS Cloud Security : EC2

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

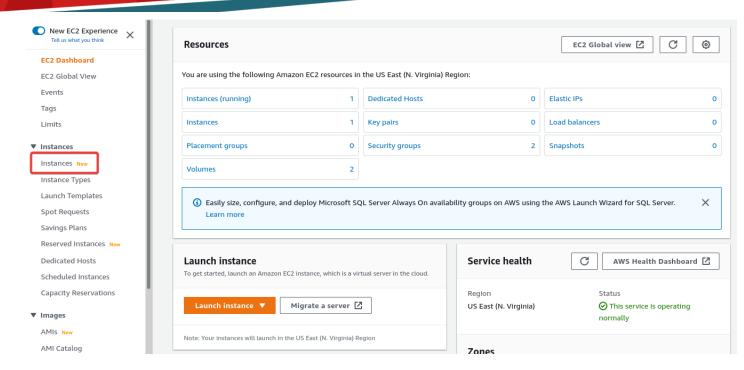
Solution:

Step 1: Click on the lab link button to get access credentials. Login to aws console.

Access Credentials to your AWS lab Account

Login URL	https://854627651693.signin.aws.amazon.com/console
Region	US East (N. Virginia) us-east-1
Username	mark
Password	Ad4V8cMTkeYRA5a3

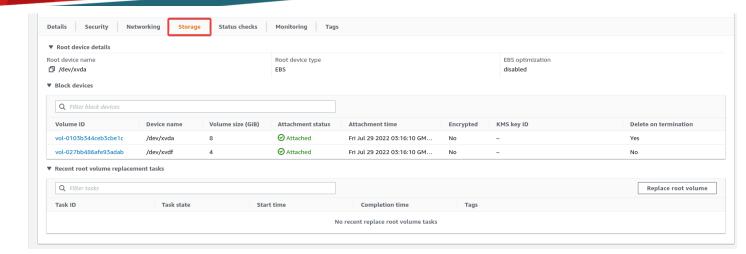
Step 2: Navigate to the EC2 dashboard and click on instances.



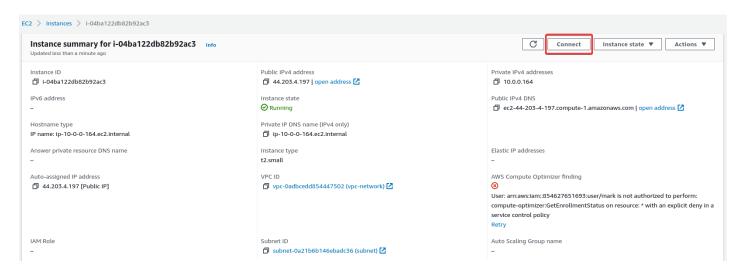
Step 3: Click on instance id and find the storage details.



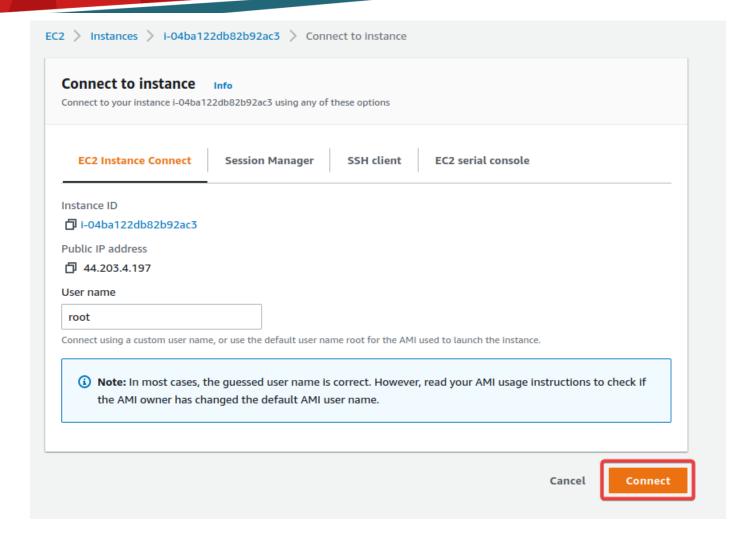
Step 4: Click on storage.



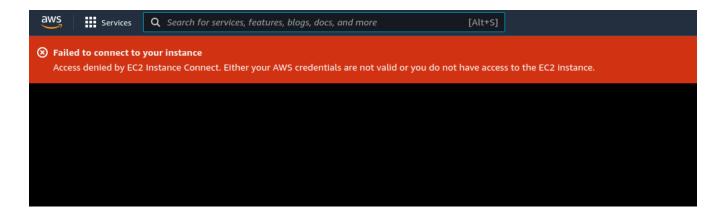
Step 5: Try to connect with the instance.



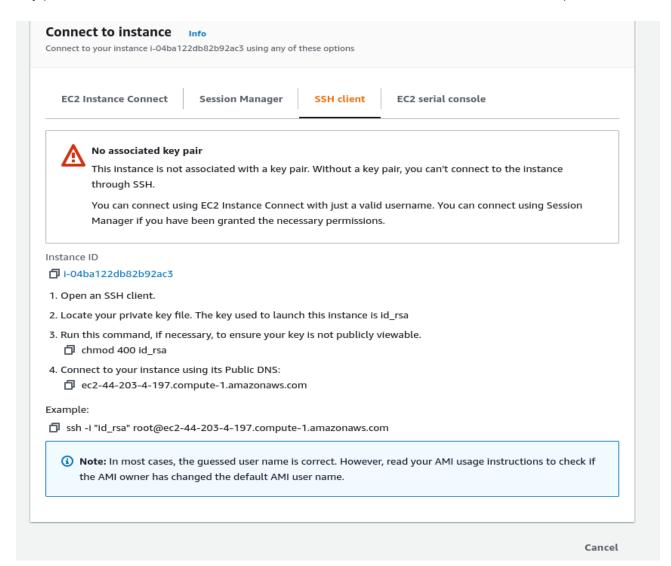
Try to connect instance with EC2 Instance connect.



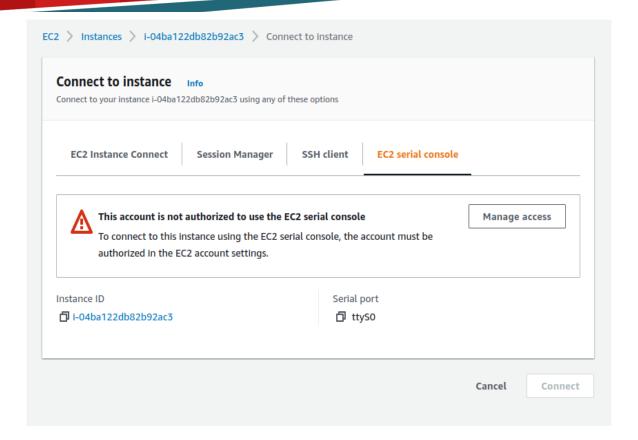
User does not have access to the instance.



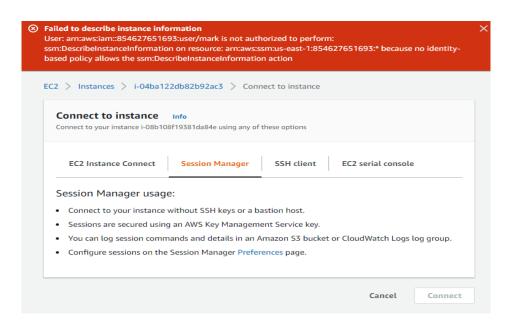
Key pair is not created. So the connection to EC2 instance with the SSH client is not possible.



EC2 serial console is not authorized to connect with the instance.

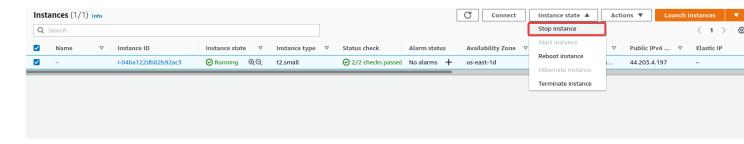


SSM is not authorized to connect with the instance. So this states that there is no access to the instance. Thus we cannot check the data inside volumes.

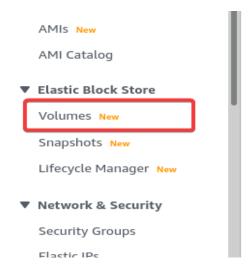




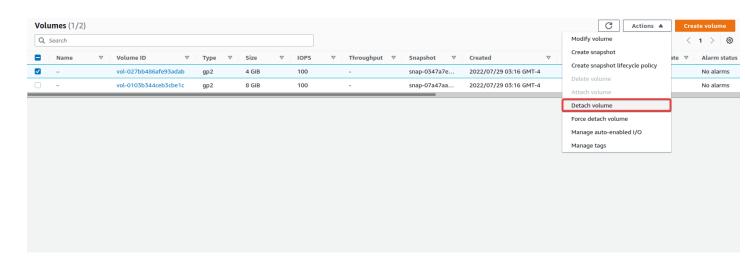
Step 6: Stop the running instance.



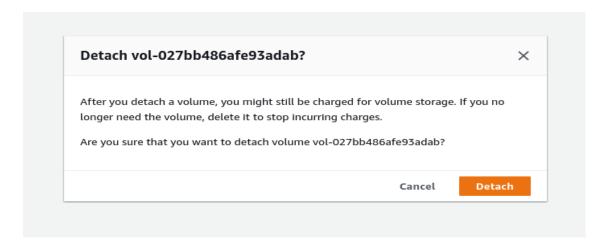
Step 7: Navigate to volumes.



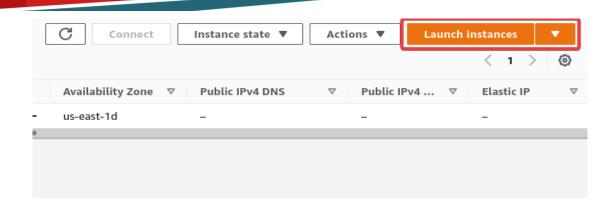
Step 8: Detach the additionally attached volume from the instance.



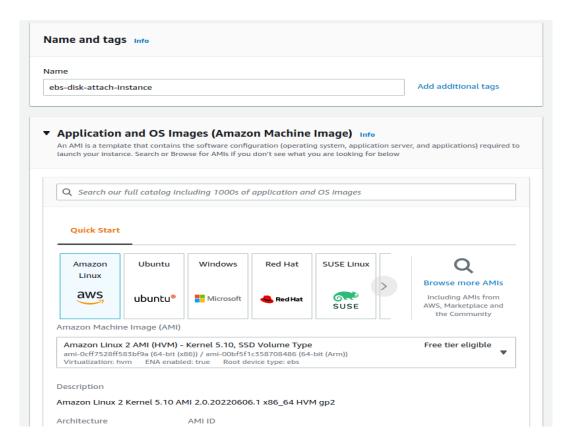
Step 9: Click on detach.



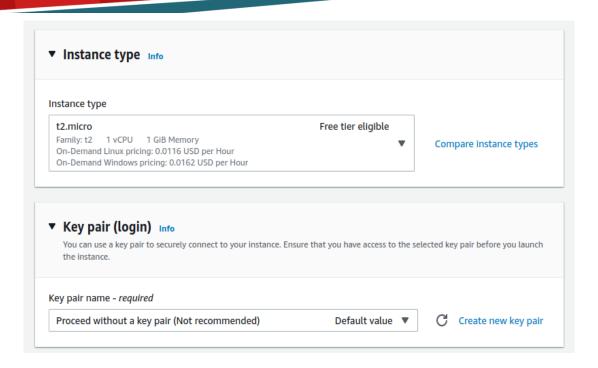
Step 10: Now create a new instance and attach the detached volume and retrieve the data from it. Navigate back to the instance and click on launch instance.



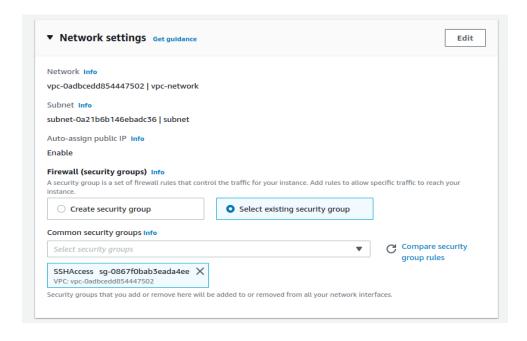
Step 11: Set a name and select amazon Linux as AMI.



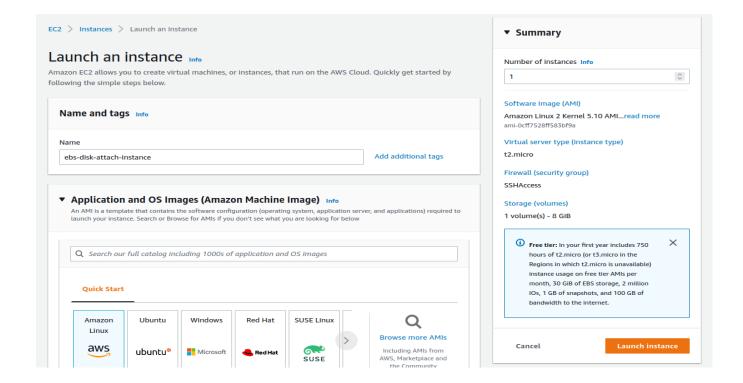
Step 12: Set instance type to t2.micro and proceed without key pair.



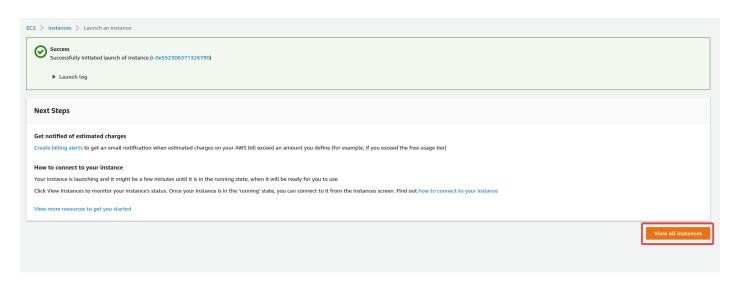
Step 13: Select "SSHAccess" as the security group.



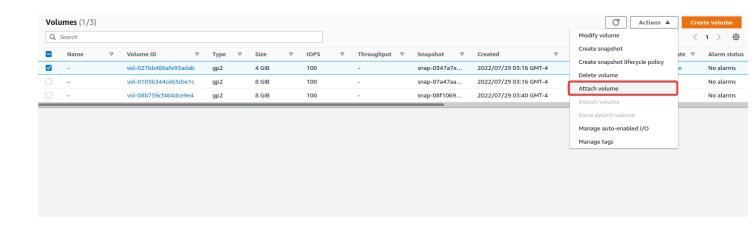
Step 14: Leave other settings as default and click on Launch instance.



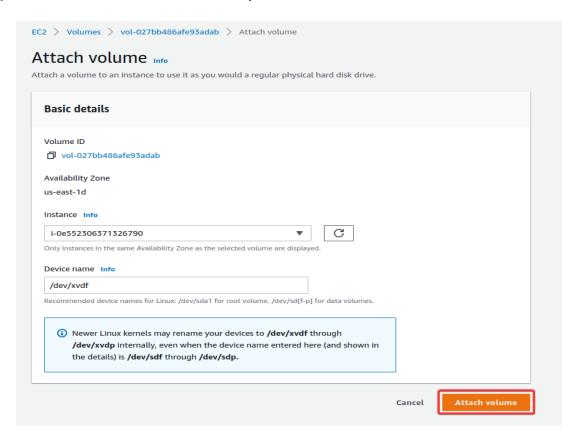
Successfully initiated the launch of instance. Now click on View all instances.



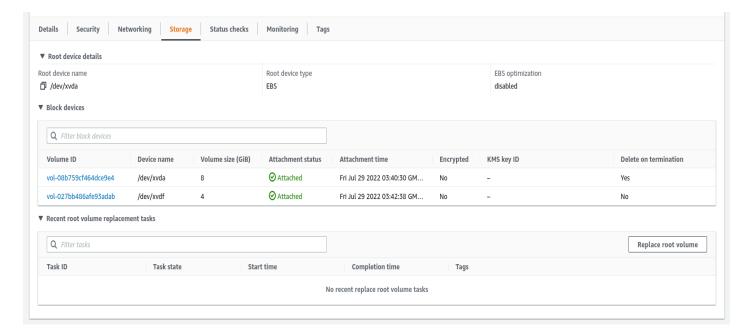
Step 15: Navigate back to volumes and select the detached volume. Click on attach from the actions drop-down.



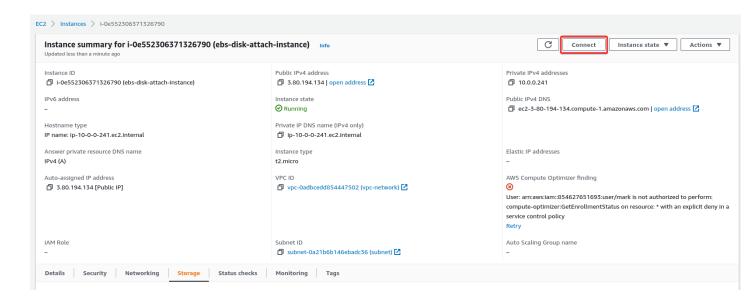
Step 16: Attach the volume with the newly created instance.



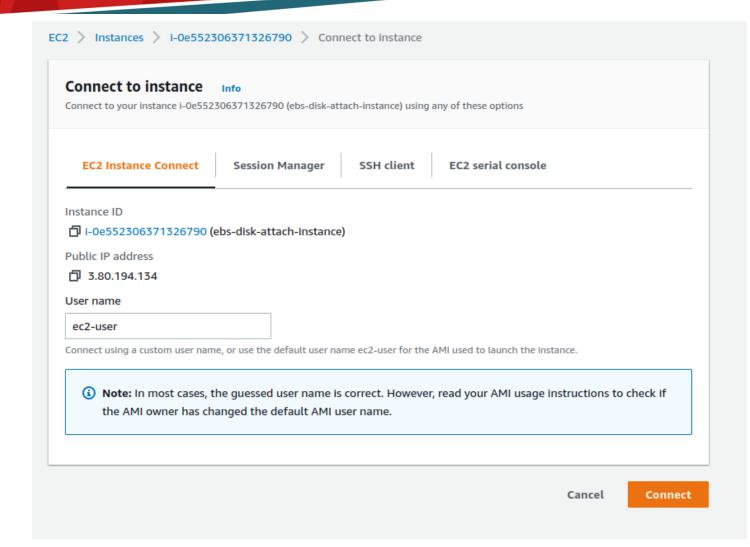
Now the volumes will list in the storage section of EC2 instance.



Step 17: Navigate back to instances and try to connect with the created instance using EC2 instance connect.



Click on connect.



Successfully connected to the instance.

Step 18: List the available volumes.

Command: Isblk

```
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
ec2-user@ip-10-0-0-241 ~]$ lsblk
       MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
cvda
       202:0
                    8G
                        0 disk
 -xvda1 202:1
                0
                    8G
                        0 part /
kvdf
       202:80
                        0 disk
                    4G
[ec2-user@ip-10-0-0-241 ~]$
```

Step 19: Check the file system of the attached disk.

Command: sudo file -s /dev/xvdf

```
[ec2-user@ip-10-0-0-241 ~]$ sudo file -s /dev/xvdf
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
[ec2-user@ip-10-0-0-241 ~]$
```

Step 20: Create a mount point directory for the volume and mount the volume at that directory. Now this will mount the data present inside the volume to the data folder in the root.

Command: sudo mkdir /data sudo mount /dev/xvdf /data

```
[ec2-user@ip-10-0-0-241 ~]$ sudo mkdir /data
[ec2-user@ip-10-0-0-241 ~]$ sudo mount /dev/xvdf /data
[ec2-user@ip-10-0-0-241 ~]$
```

Step 21: Retrieve the flag.

Command: Is /data

cat /data/flag

```
[ec2-user@ip-10-0-0-241 ~]$ 1s /data
flag
[ec2-user@ip-10-0-0-241 ~]$ cat /data/flag
la0c77264e3e32c9e5cd777cd55f8c83
[ec2-user@ip-10-0-0-241 ~]$
```



Flag: 1a0c77264e3e32c9e5cd777cd55f8c83

References:

1. AWS EC2 documentation (https://docs.aws.amazon.com/ec2/index.html)