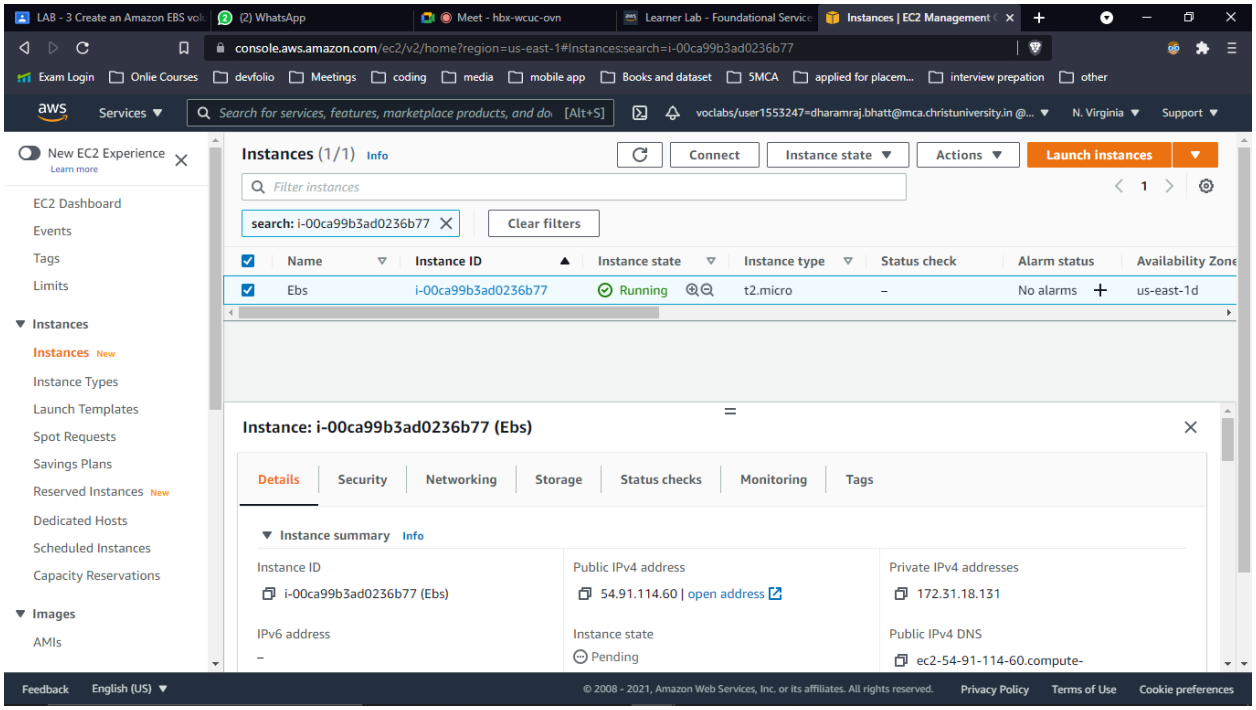
Name: Dharamraj Bhatt
Reg.no: 1947216

LAB - 3 Create an Amazon EBS volume, attach it to an instance, apply a file system to the volume, and then take a snapshot backup

1. Create an Amazon EBS volume
2. Attach and mount your volume to an EC2 instance
3. Create a snapshot of your volume
4. Create a new volume from your snapshot
5. Attach and mount the new volume to your EC2 instance
6. Putty window with commands (Commands, File creation, Deletion and snapshot recovery)


LAB - 3 Create an Amazon EBS vol
(2) WhatsApp
Meet - hbx-wcuc-ovn
Learner Lab - Foundational Service
Instances | EC2 Management
console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:search=i-00ca99b3ad0236b77
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interview prepation
other
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Instances (1/1) Info
Connect
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Actions
Launch instances
Filter instances
search: i-00ca99b3ad0236b77
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Ebs
i-00ca99b3ad0236b77
Running
t2.micro
–
No alarms
us-east-1d
Instance: i-00ca99b3ad0236b77 (Ebs)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-00ca99b3ad0236b77 (Ebs)
Public IPv4 address
54.91.114.60 | open address
Private IPv4 addresses
172.31.18.131
IPv6 address
–
Instance state
Pending
Public IPv4 DNS
ec2-54-91-114-60.compute-
Feedback
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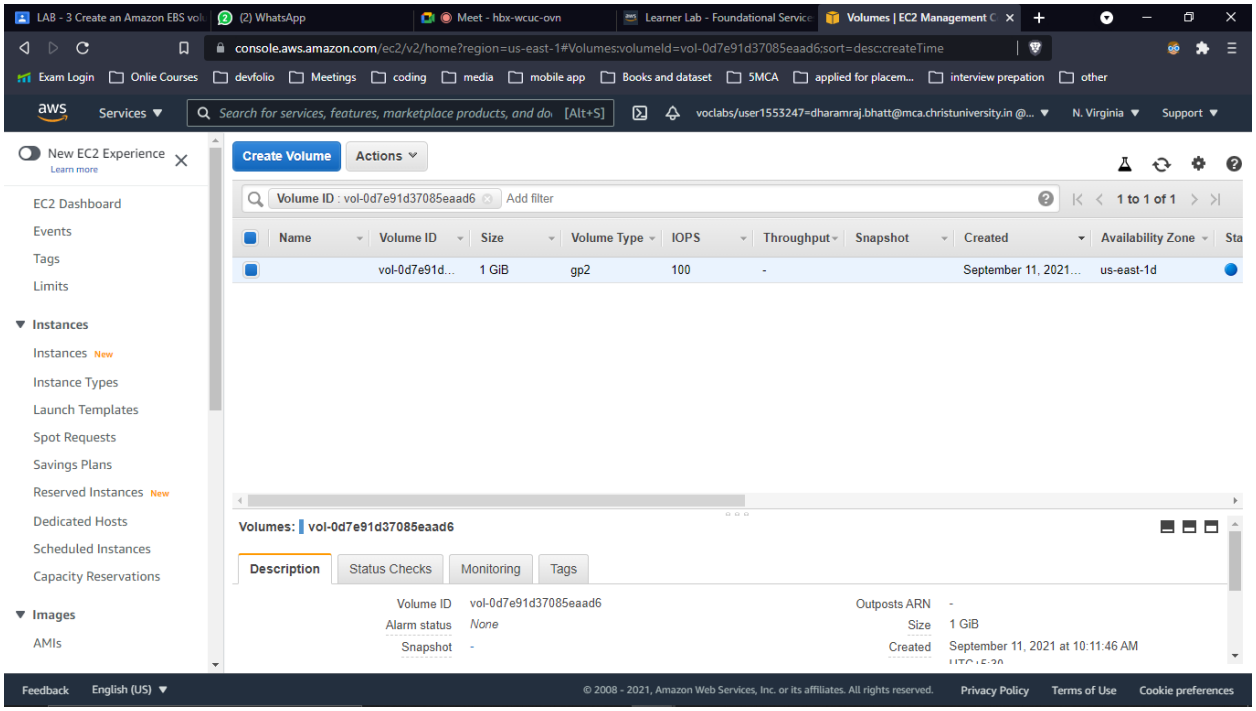
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Volumes | EC2 Management
console.aws.amazon.com/ec2/v2/home?region=us-east-1#Volumes:volumeId=vol-0d7e91d37085eaad6;sort=desc:createTime
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Actions
Volume ID : vol-0d7e91d37085eaad6
Add filter
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Name
Volume ID
Size
Volume Type
IOPS
Throughput
Snapshot
Created
Availability Zone
vol-0d7e91d...
1 GiB
gp2
100
-
September 11, 2021...
us-east-1d
Volumes: vol-0d7e91d37085eaad6
Description
Status Checks
Monitoring
Tags
Volume ID
vol-0d7e91d37085eaad6
Alarm status
None
Snapshot
-
Outposts ARN
-
Size
1 GiB
Created
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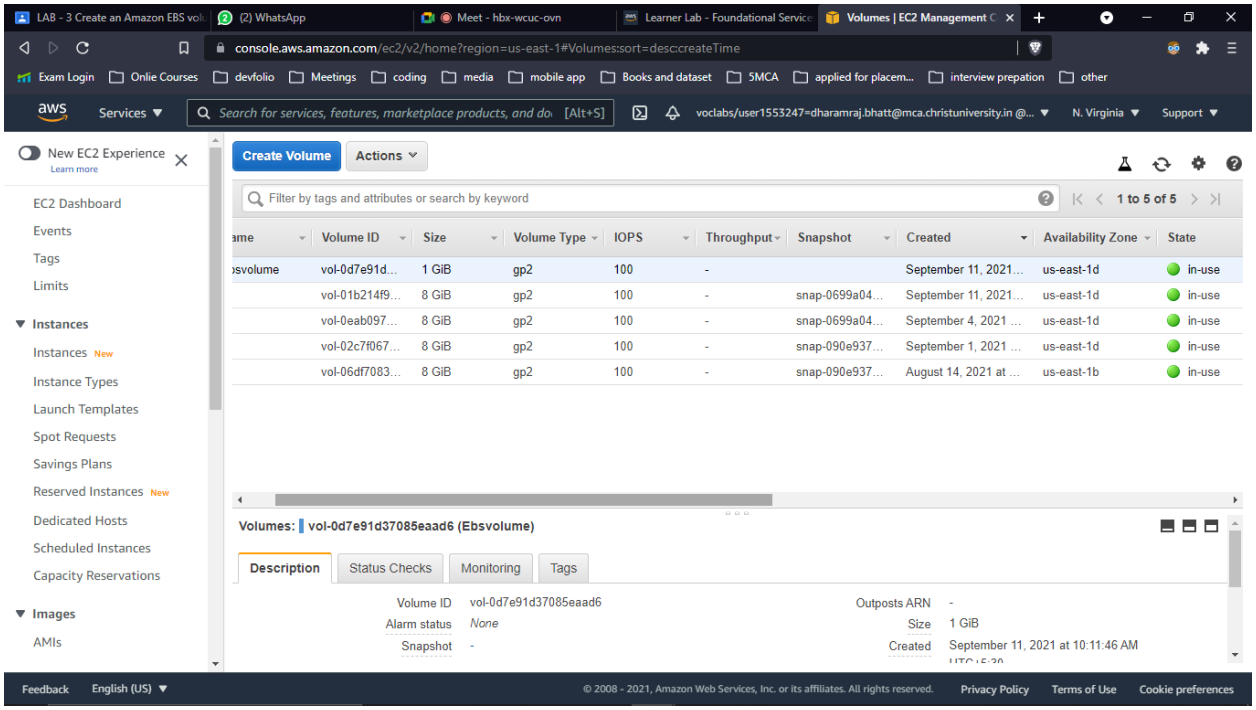
LAB - 3 Create an Amazon EBS vol
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Volumes | EC2 Management
console.aws.amazon.com/ec2/v2/home?region=us-east-1#Volumes:sort=desc:createTime
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Actions
Filter by tags and attributes or search by keyword
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Volume ID
Size
Volume Type
IOPS
Throughput
Snapshot
Created
Availability Zone
State
vol-0d7e91d...
1 GiB
gp2
100
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us-east-1d
in-use
vol-01b214f9...
8 GiB
gp2
100
snap-0699a04...
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us-east-1d
in-use
vol-0eab097...
8 GiB
gp2
100
snap-0699a04...
September 4, 2021 ...
us-east-1d
in-use
vol-02c7f067...
8 GiB
gp2
100
snap-090e937...
September 1, 2021 ...
us-east-1d
in-use
vol-06df7083...
8 GiB
gp2
100
snap-090e937...
August 14, 2021 at ...
us-east-1b
in-use
Volumes: vol-0d7e91d37085eaad6 (Ebsvolume)
Description
Status Checks
Monitoring
Tags
Volume ID
vol-0d7e91d37085eaad6
Alarm status
None
Snapshot
-
Outposts ARN
-
Size
1 GiB
Created
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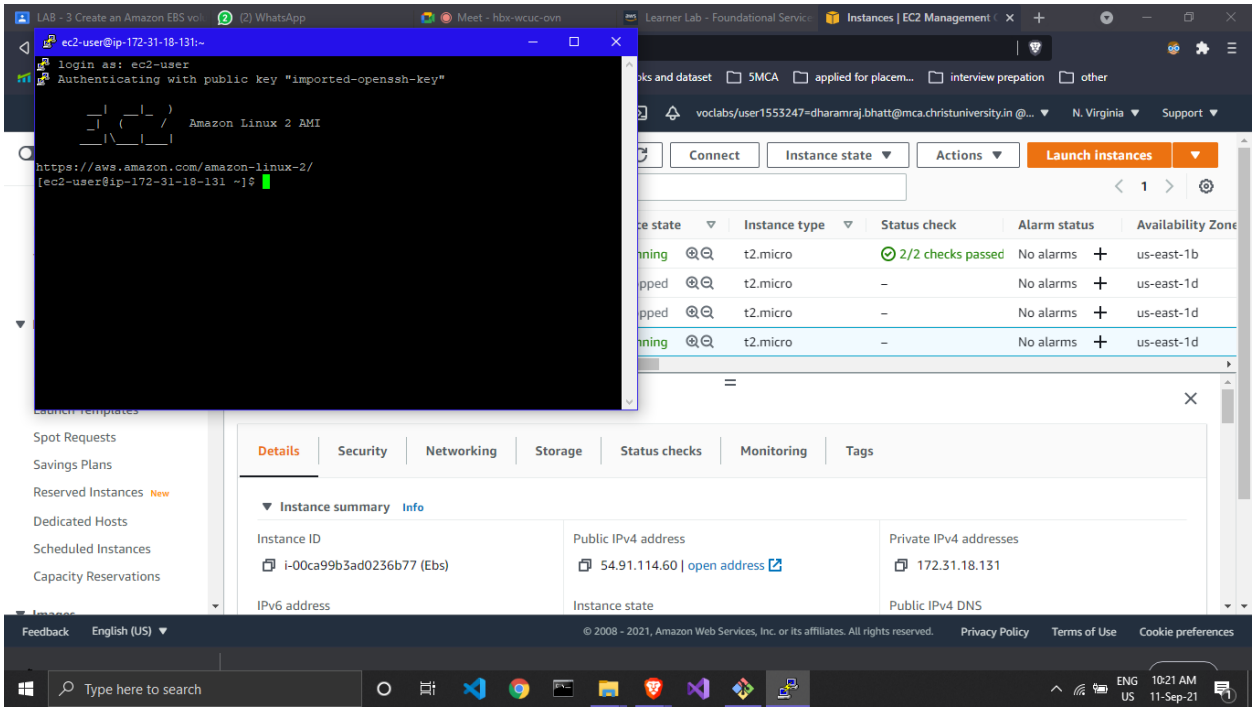
ec2-user@ip-172-31-18-131:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-18-131 ~]$
Instances | EC2 Management
Connect
Instance state
Actions
Launch instances
Instance type
Status check
Alarm status
Availability Zone
t2.micro
2/2 checks passed
No alarms
us-east-1b
t2.micro
No alarms
us-east-1d
t2.micro
No alarms
us-east-1d
t2.micro
No alarms
us-east-1d
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Security
Networking
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Monitoring
Tags
Instance summary
Info
Instance ID
i-00ca99b3ad0236b77 (Ebs)
Public IPv4 address
54.91.114.60 | open address
Private IPv4 addresses
172.31.18.131
IPv6 address
Instance state
Public IPv4 DNS
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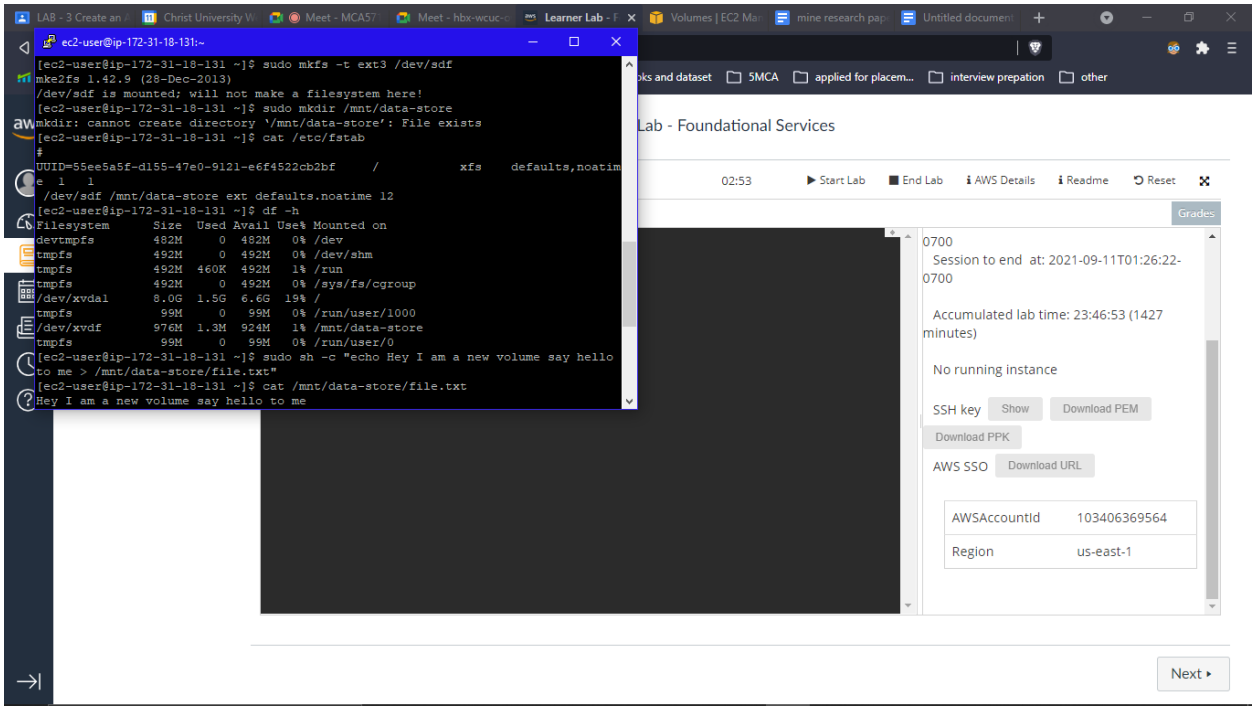
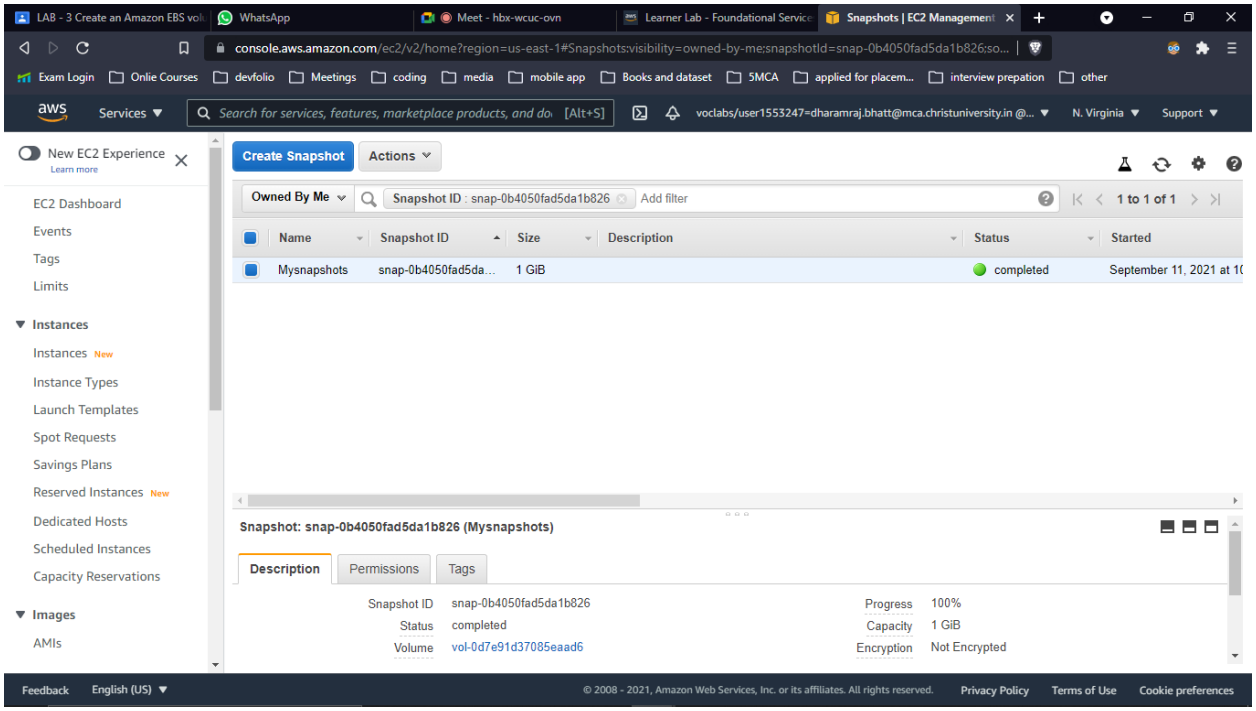

ec2-user@ip-172-31-18-131:~
[ec2-user@ip-172-31-18-131 ~]$ sudo mkfs -t ext3 /dev/sdf
mke2fs 1.42.9 (28-Dec-2013)
/dev/sdf is mounted; will not make a filesystem here!
[ec2-user@ip-172-31-18-131 ~]$ sudo mkdir /mnt/data-store
mkdir: cannot create directory '/mnt/data-store': File exists
[ec2-user@ip-172-31-18-131 ~]$ cat /etc/fstab
#
UUID=55ee5a5f-d155-47e0-9121-e6f4522cb2bf / xfs defaults,noatime 1 1
/dev/sdf /mnt/data-store ext defaults,noatime 12
[ec2-user@ip-172-31-18-131 ~]$ df -h
Filesystem Size Used Avail Use% Mounted on
devtmpfs 482M 0 482M 0% /dev
tmpfs 492M 0 492M 0% /dev/shm
tmpfs 492M 460K 492M 1% /run
tmpfs 492M 0 492M 0% /sys/fs/cgroup
/dev/xvda1 8.0G 1.5G 6.6G 19% /
tmpfs 99M 0 99M 0% /run/user/1000
/dev/xvdf 976M 1.3M 924M 1% /mnt/data-store
tmpfs 99M 0 99M 0% /run/user/0
[ec2-user@ip-172-31-18-131 ~]$ sudo sh -c "echo Hey I am a new volume say hello to me > /mnt/data-store/file.txt"
[ec2-user@ip-172-31-18-131 ~]$ cat /mnt/data-store/file.txt
Hey I am a new volume say hello to me
Lab - Foundational Services
02:53
Start Lab
End Lab
AWS Details
Readme
Reset
Grades
0700
Session to end at: 2021-09-11T01:26:22-0700
Accumulated lab time: 23:46:53 (1427 minutes)
No running instance
SSH key
Show
Download PEM
Download PPK
AWS SSO
Download URL
AWSAccountId 103406369564
Region us-east-1
Next


console.aws.amazon.com/ec2/v2/home?region=us-east-1#Snapshots:visibility=owned-by-me;snapshotId=snap-0b4050fad5da1b826;so...
Services
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Owned By Me
Snapshot ID : snap-0b4050fad5da1b826
Add filter
1 to 1 of 1
Name
Snapshot ID
Size
Description
Status
Started
Mysnapshots
snap-0b4050fad5da...
1 GiB
completed
September 11, 2021 at 10
Snapshot: snap-0b4050fad5da1b826 (Mysnapshots)
Description
Permissions
Tags
Snapshot ID snap-0b4050fad5da1b826
Status completed
Volume vol-0d7e91d37085eaad6
Progress 100%
Capacity 1 GiB
Encryption Not Encrypted
Feedback
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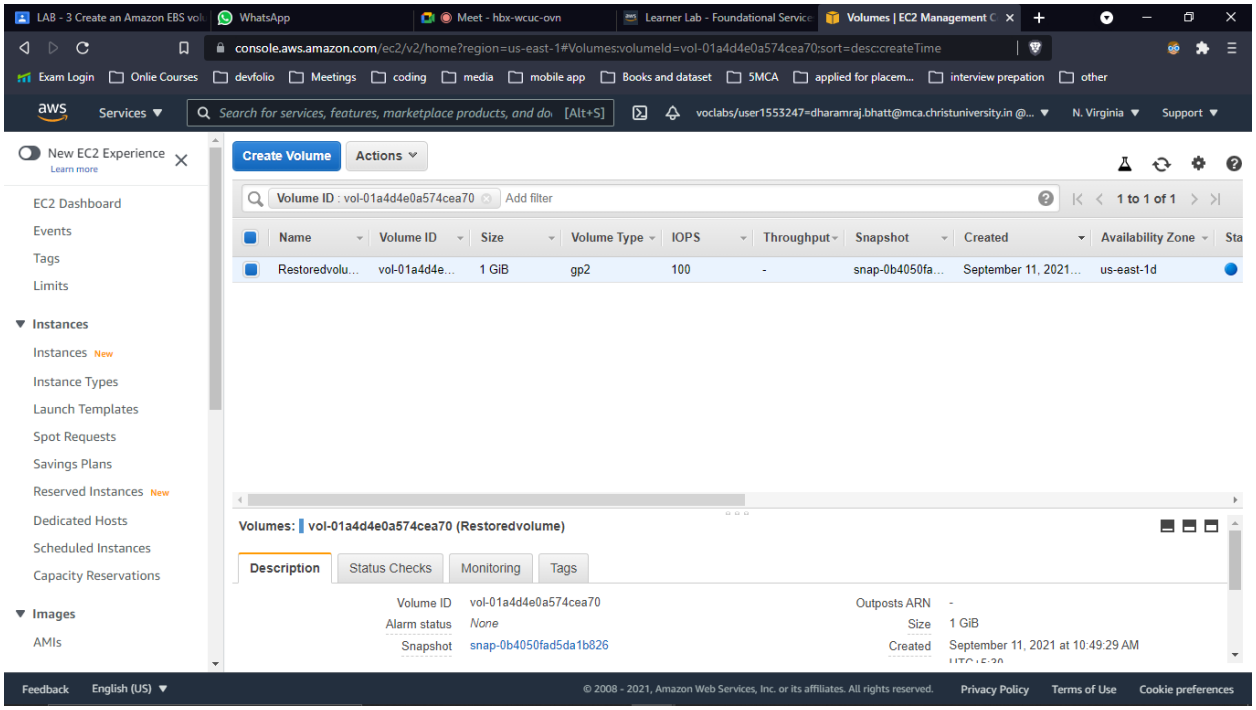
LAB - 3 Create an Amazon EBS vol
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Volumes | EC2 Management C
console.aws.amazon.com/ec2/v2/home?region=us-east-1#Volumes:volumeId=vol-01a4d4e0a574cea70;sort=desc:createTime
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Actions
Volume ID : vol-01a4d4e0a574cea70
Add filter
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Name
Volume ID
Size
Volume Type
IOPS
Throughput
Snapshot
Created
Availability Zone
Sta
Restoredvolu...
vol-01a4d4e...
1 GiB
gp2
100
-
snap-0b4050fa...
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us-east-1d
Volumes: vol-01a4d4e0a574cea70 (Restoredvolume)
Description
Status Checks
Monitoring
Tags
Volume ID
vol-01a4d4e0a574cea70
Alarm status
None
Snapshot
snap-0b4050fad5da1b826
Outposts ARN
-
Size
1 GiB
Created
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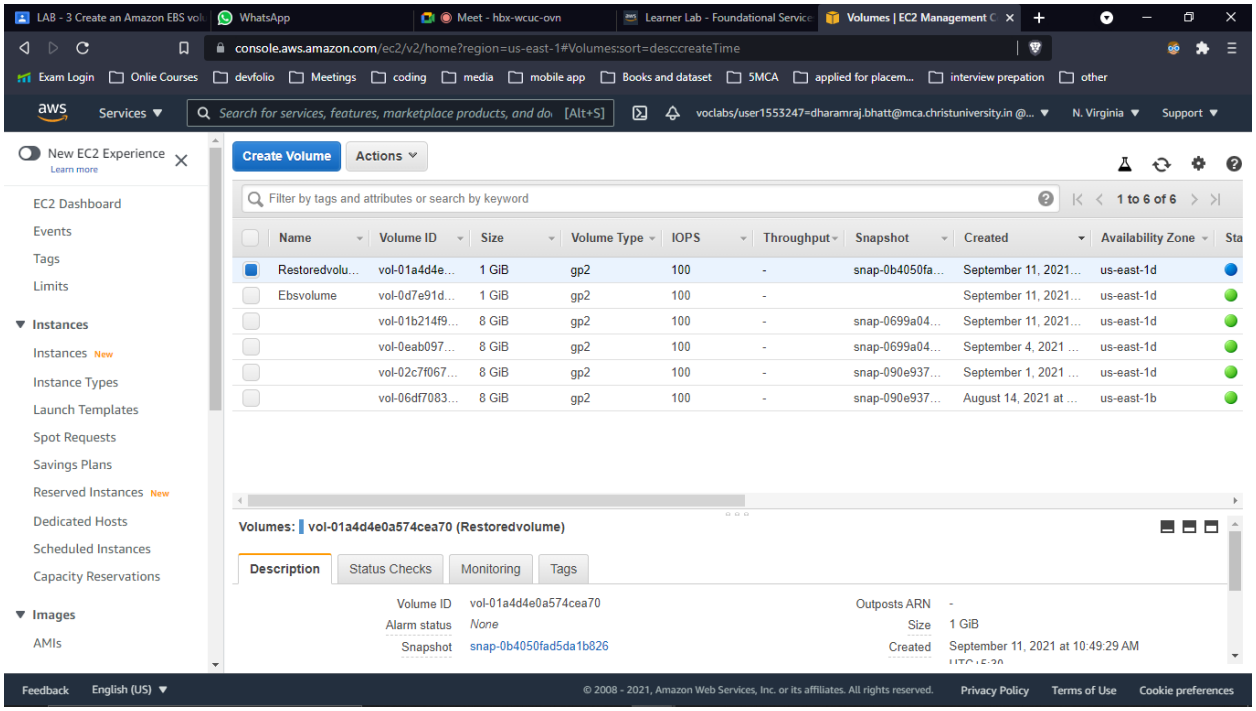
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console.aws.amazon.com/ec2/v2/home?region=us-east-1#Volumes:sort=desc:createTime
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Name
Volume ID
Size
Volume Type
IOPS
Throughput
Snapshot
Created
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Sta
Restoredvolu...
vol-01a4d4e...
1 GiB
gp2
100
-
snap-0b4050fa...
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us-east-1d
Ebsvolume
vol-0d7e91d...
1 GiB
gp2
100
-
September 11, 2021...
us-east-1d
vol-01b214f9...
8 GiB
gp2
100
-
snap-0699a04...
September 11, 2021...
us-east-1d
vol-0eab097...
8 GiB
gp2
100
-
snap-0699a04...
September 4, 2021 ...
us-east-1d
vol-02c7f067...
8 GiB
gp2
100
-
snap-090e937...
September 1, 2021 ...
us-east-1d
vol-06df7083...
8 GiB
gp2
100
-
snap-090e937...
August 14, 2021 at ...
us-east-1b
Volumes: vol-01a4d4e0a574cea70 (Restoredvolume)
Description
Status Checks
Monitoring
Tags
Volume ID
vol-01a4d4e0a574cea70
Alarm status
None
Snapshot
snap-0b4050fad5da1b826
Outposts ARN
-
Size
1 GiB
Created
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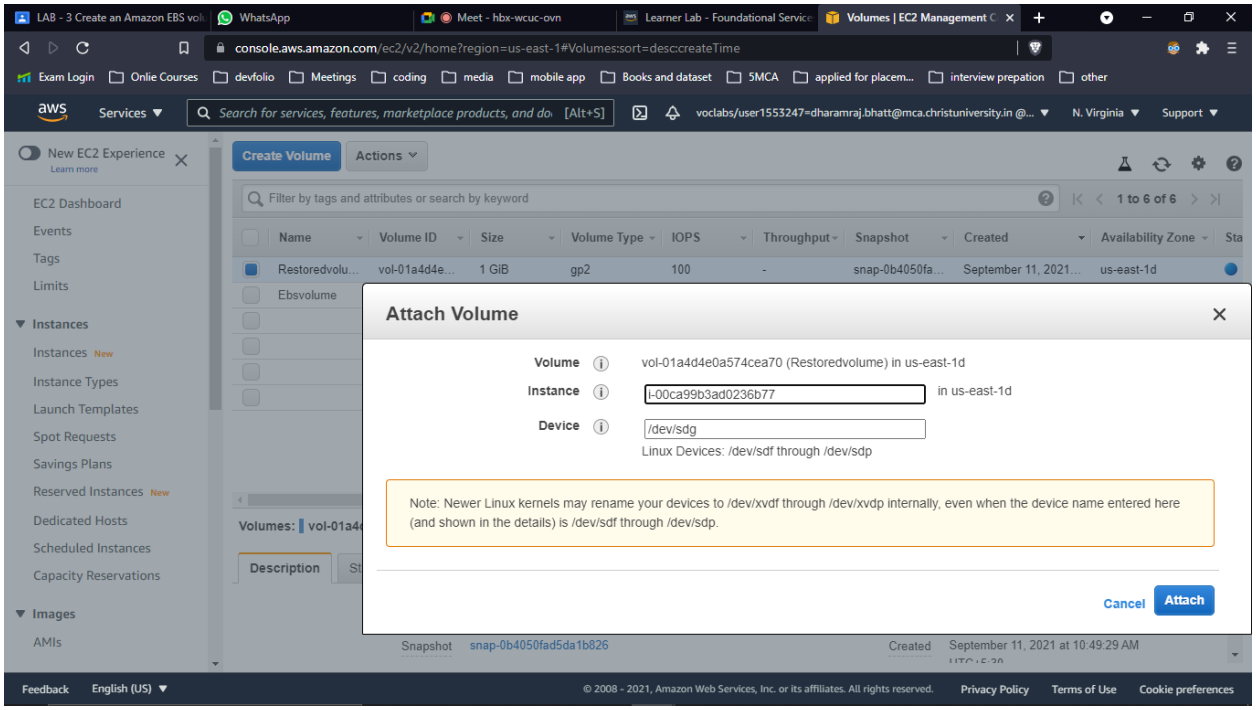
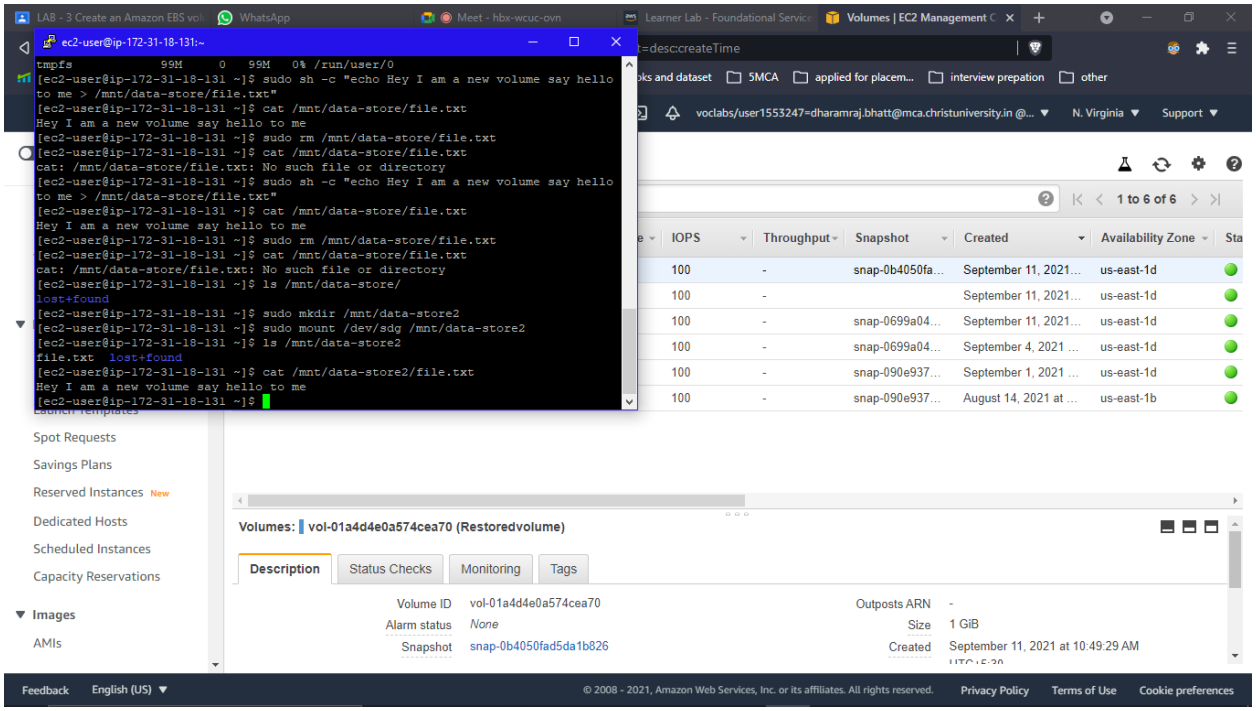

Attach Volume
Volume
vol-01a4d4e0a574cea70 (Restoredvolume) in us-east-1d
Instance
i-00ca99b3ad0236b77
in us-east-1d
Device
/dev/sdg
Linux Devices: /dev/sdf through /dev/sdp
Note: Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.
Cancel
Attach


ec2-user@ip-172-31-18-131:~
tmpfs 99M 0 99M 0% /run/user/0
[ec2-user@ip-172-31-18-131 ~]$ sudo sh -c "echo Hey I am a new volume say hello to me > /mnt/data-store/file.txt"
[ec2-user@ip-172-31-18-131 ~]$ cat /mnt/data-store/file.txt
Hey I am a new volume say hello to me
[ec2-user@ip-172-31-18-131 ~]$ sudo rm /mnt/data-store/file.txt
[ec2-user@ip-172-31-18-131 ~]$ cat /mnt/data-store/file.txt
cat: /mnt/data-store/file.txt: No such file or directory
[ec2-user@ip-172-31-18-131 ~]$ sudo sh -c "echo Hey I am a new volume say hello to me > /mnt/data-store/file.txt"
[ec2-user@ip-172-31-18-131 ~]$ cat /mnt/data-store/file.txt
Hey I am a new volume say hello to me
[ec2-user@ip-172-31-18-131 ~]$ sudo rm /mnt/data-store/file.txt
[ec2-user@ip-172-31-18-131 ~]$ cat /mnt/data-store/file.txt
cat: /mnt/data-store/file.txt: No such file or directory
[ec2-user@ip-172-31-18-131 ~]$ ls /mnt/data-store/
lost+found
[ec2-user@ip-172-31-18-131 ~]$ sudo mkdir /mnt/data-store2
[ec2-user@ip-172-31-18-131 ~]$ sudo mount /dev/sdg /mnt/data-store2
[ec2-user@ip-172-31-18-131 ~]$ ls /mnt/data-store2
file.txt lost+found
[ec2-user@ip-172-31-18-131 ~]$ cat /mnt/data-store2/file.txt
Hey I am a new volume say hello to me
[ec2-user@ip-172-31-18-131 ~]$
Volumes: vol-01a4d4e0a574cea70 (Restoredvolume)
Description
Status Checks
Monitoring
Tags
Volume ID vol-01a4d4e0a574cea70
Alarm status None
Snapshot snap-0b4050fad5da1b826
Outposts ARN -
Size 1 GiB
Created September 11, 2021 at 10:49:29 AM