

## **Amazon AWS I – Cloud Practitioner**

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Student Name: Elvin Hatamov  
Student ID: 101150598  
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Term: Spring 2025

### **Activity 6: Lab 4 - Working with EBS**

Paste screenshot of the AWS Management Console after completing each task.

#### **Task 1: Create a New EBS Volume**

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The screenshot displays the AWS Management Console interface for the 'Volumes' section. A green notification banner at the top states 'Successfully created volume vol-0228191752a9f0f94.' The left sidebar contains navigation links for Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, Elastic Block Store (with Volumes selected), and Network & Security. The main content area shows 'Volumes (3)' with a table listing three volumes. Below the table, a 'Snapshot summary' box indicates '0 / 2' recently backed up volumes out of a total of 2, with a link to 'Create policy' for the default lifecycle manager policy.

	Name	Volume ID	Type	Size	IOPS
<input type="checkbox"/>	My Volume	vol-0228191752a9f0f94	gp2	1 GiB	100
<input type="checkbox"/>		vol-02b3947e6b8dd584b	gp3	8 GiB	3000
<input type="checkbox"/>		vol-0d75f22924ad0b892	gp3	9 GiB	3000

**Snapshot summary** Last updated on Fri, Jul 11, 2025, 03:59:26 PM (GMT-04:00)

Recently backed up volumes / Total # volumes  
**0 / 2**

Data Lifecycle Manager default policy for EBS Snapshots status  
No default policy set up | [Create policy](#)

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The screenshot displays the AWS Management Console interface for an EBS volume. The browser address bar shows the URL: <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#VolumeDetails:volumeId=vol-0228191752a9f0f94>. The console header includes the AWS logo, a search bar, and navigation links for EC2, Volumes, and the specific volume ID: vol-0228191752a9f0f94. The left sidebar contains a navigation menu with categories like Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, Elastic Block Store, and Network & Security. The main content area is titled 'Details' and provides information about the volume: Volume ID (vol-0228191752a9f0f94), Type (gp2), Size (1 GiB), Status check (Okay), Volume state (Available), IOPS (100), Fast snapshot restored (No), Created (Fri Jul 11 2025 16:00:39 GMT-0400), Attached resources (none), Managed (false), Throughput (none), Availability Zone (us-east-1a), Multi-Attach enabled (No), Outposts ARN (none), and Operator (none). The footer of the console shows 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates.

Details	
<b>Volume ID</b> vol-0228191752a9f0f94 (My Volume)	<b>Size</b> 1 GiB
<b>Type</b> gp2	<b>Status check</b> Okay
<b>AWS Compute Optimizer finding</b> Opt-in to AWS Compute Optimizer for recommendations.   <a href="#">Learn more</a>	<b>Volume state</b> Available
<b>IOPS</b> 100	<b>Throughput</b> -
<b>Fast snapshot restored</b> No	<b>Availability Zone</b> us-east-1a
<b>Created</b> Fri Jul 11 2025 16:00:39 GMT-0400 (Eastern Daylight Time)	<b>Multi-Attach enabled</b> No
<b>Attached resources</b> -	<b>Outposts ARN</b> -
<b>Managed</b> false	<b>Operator</b> -

### Task 2: Attach the Volume to an Instance

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The screenshot displays the AWS Management Console interface for an EC2 instance. The instance ID `i-05329ff41812f08d7` is highlighted in the breadcrumb navigation. The left sidebar shows the navigation menu with categories like EC2, Images, and Elastic Block Store. The main content area is divided into tabs: Alarms, Monitoring, Security, Networking, Storage (selected), and Tags. Under the Storage tab, the 'Root device details' section shows the root device name as `/dev/xvda` and the root device type as EBS. The 'Block devices' section contains a table listing the instance's block devices. The second device, `vol-0228191752a9f0f94`, is highlighted with a yellow circle. Below the table is a 'Volume monitoring' section showing 0 volumes.

Volume ID	Device name	Volume size (GiB)	Volume
<code>vol-02b3947e6b8dd584b</code>	<code>/dev/xvda</code>	8	In-use
<code>vol-0228191752a9f0f94</code>	<code>/dev/sdf</code>	1	In-use

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root volume

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The screenshot shows the AWS CloudShell interface. The terminal output is as follows:

```
[ec2-user@ip-10-1-11-131 ~]$ sudo mkdir /mnt/data-store
[ec2-user@ip-10-1-11-131 ~]$ sudo mount /dev/sdf /mnt/data-store
[ec2-user@ip-10-1-11-131 ~]$ echo "/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2" | sudo tee -a /etc/fstab
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-131 ~]$ cat /etc/fstab
#
UUID=8ccb215f-5a99-42c1-8ecd-1a3ec537135b / xfs defaults,noatime 1 1
UUID=5A01-AD97 /boot/efi vfat defaults,noatime,uid=0,gid=0,umask=0077,shortname=winnt,x-systemd.automount 0 2
/dev/sdf /mnt/data-store ext3 defaults,noatime 1 2
[ec2-user@ip-10-1-11-131 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0  4.0M   0% /dev
tmpfs           475M   0  475M   0% /dev/shm
tmpfs           190M 440K  190M   1% /run
/dev/xvda1      8.0G  1.6G  6.4G  20% /
tmpfs           475M   0  475M   0% /tmp
/dev/xvda128    10M  1.3M  8.7M  13% /boot/efi
tmpfs           95M   0   95M   0% /run/user/1000
/dev/xvdf       975M  60K  924M   1% /mnt/data-store
[ec2-user@ip-10-1-11-131 ~]$ udo sh -c "echo some text has been written > /mnt/data-store/file.txt"
-bash: udo: command not found
[ec2-user@ip-10-1-11-131 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"
[ec2-user@ip-10-1-11-131 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-131 ~]$
```

A handwritten red note "new volume mounted" with an arrow points to the line in the `df -h` output: `/dev/xvdf 975M 60K 924M 1% /mnt/data-store`.

Below the terminal, the instance ID `i-05329ff41812f08d7 (Lab)` is displayed, along with Public IPs: 18.208.183.164 and Private IPs: 10.1.11.131.

The footer of the CloudShell interface includes "CloudShell", "Feedback", "Privacy", "Terms", "Cookie preferences", and a copyright notice: "© 2025, Amazon Web Services, Inc. or its affiliates."

### Task 5: Create an Amazon EBS Snapshot

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Term: Spring 2025

The screenshot displays the AWS Management Console interface. At the top, the navigation bar includes the AWS logo, a search bar, and the user's profile information (United States, user1118636=elvin.hatamov@georgebrow). The main content area shows the 'snap-0ab8d79fe4d25f531 (My Snapshot)' page. The left sidebar contains a navigation menu with categories like Instances, Images, Elastic Block Store, and Network & Security. The main panel displays the snapshot's details, including its ID, progress (100%), owner, product codes, description, and source volume information. The snapshot is shown as 'Completed' and 'Fast snapshot restore' is enabled.

**snap-0ab8d79fe4d25f531 (My Snapshot)**  
Last updated less than a minute ago [Refresh](#) [Delete](#) [Actions](#)

**Details**

<b>Snapshot ID</b> <a href="#">snap-0ab8d79fe4d25f531 (My Snapshot)</a>	<b>Full snapshot size</b> <a href="#">53 MiB</a>
<b>Progress</b> 100%	<b>Snapshot status</b> Completed
<b>Owner</b> <a href="#">723108648999</a>	<b>Started</b> <a href="#">Fri Jul 11 2025 16:22:46 GMT-0400 (Eastern Daylight Time)</a>
<b>Product codes</b> -	<b>Fast snapshot restore</b> -
<b>Description</b> -	
<b>Source volume</b>	
<b>Volume ID</b> <a href="#">vol-0228191752a9f0f94</a>	<b>Volume size</b> <a href="#">1 GiB</a>

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## Task 6: Restore the Amazon EBS Snapshot

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Term: Spring 2025

The screenshot displays the AWS Management Console interface. At the top, the navigation bar includes the AWS logo, a search bar, and the user's profile information. The main content area is titled "vol-0fae38d4f4b50bb94 (Restored Volume)". Below the title, there are buttons for "Actions", "Delete", and "Modify". The "Details" section is divided into two columns. The left column contains "Volume ID" (vol-0fae38d4f4b50bb94), "Type" (gp3), "AWS Compute Optimizer finding" (Opt-in to AWS Compute Optimizer for recommendations), "IOPS" (3000), "Fast snapshot restored" (No), and "Created" (Fri Jul 11 2025 16:26:57 GMT-0400). The right column contains "Size" (1 GiB), "Status check" (Insufficient data), "Volume state" (In-use), "Throughput" (125), "Availability Zone" (us-east-1a), and "Multi-Attach enabled" (No). The bottom of the console shows the "Attached resources" and "Outposts ARN" sections. The footer includes links for "CloudShell", "Feedback", "Privacy", "Terms", and "Cookie preferences", along with the copyright notice "© 2025, Amazon Web Services, Inc. or its affiliates."

aws [Search] [Alt+S] United States (N. v) voclabs/user1118636=elvin.hatamov@georgebrow

EC2 > Volumes > vol-0fae38d4f4b50bb94

### vol-0fae38d4f4b50bb94 (Restored Volume)

Last updated less than a minute ago [Refresh] [Actions] [Delete] [Modify]

#### Details

<b>Volume ID</b> vol-0fae38d4f4b50bb94 (Restored Volume)	<b>Size</b> 1 GiB
<b>Type</b> gp3	<b>Status check</b> Insufficient data
<b>AWS Compute Optimizer finding</b> Opt-in to AWS Compute Optimizer for recommendations. <a href="#">Learn more</a>	<b>Volume state</b> In-use
<b>IOPS</b> 3000	<b>Throughput</b> 125
<b>Fast snapshot restored</b> No	<b>Availability Zone</b> us-east-1a
<b>Created</b> Fri Jul 11 2025 16:26:57 GMT-0400 (Eastern Daylight Time)	<b>Multi-Attach enabled</b> No
<b>Attached resources</b>	<b>Outposts ARN</b>

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```
aws | Search [Alt+S] | United States (N.) | voclabs/user1118636=elvin.hatamov@georgebrow

A newer release of "Amazon Linux" is available.
Version 2023.8.20250707:
Run "/usr/bin/dnf check-release-update" for full release and version update info

#
~\_####_ Amazon Linux 2023
~\_#####\
~\_####|
~\_#| https://aws.amazon.com/linux/amazon-linux-2023
~\_V~' '->
~\_./
~\_/m/'

Last login: Fri Jul 11 20:08:33 2025 from 18.206.107.27
[ec2-user@ip-10-1-11-131 ~]$ sudo rm /mnt/data-store/file.txt
[ec2-user@ip-10-1-11-131 ~]$ ls /mnt/data-store/
lost+found
[ec2-user@ip-10-1-11-131 ~]$ sudo mkdir /mnt/data-store2
[ec2-user@ip-10-1-11-131 ~]$ sudo mount /dev/sdg /mnt/data-store2
[ec2-user@ip-10-1-11-131 ~]$ ls /mnt/data-store2/
file.txt lost+found
[ec2-user@ip-10-1-11-131 ~]$
```

**i-05329ff41812f08d7 (Lab)** ✕

PublicIPs: 18.208.183.164 PrivateIPs: 10.1.11.131

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