

Creating and Attaching an EBS Volume to EC2

Objective

The objective of this task is to provision a new Elastic Block Store (EBS) volume using the AWS Management Console, attach it to an existing EC2 instance, and verify its attachment.

Prerequisites

- Basic understanding of AWS EC2 and EBS
- Familiarity with AWS Management Console
- An active EC2 instance (Amazon Linux 2)

Steps Overview

1. Create an EBS volume in the same Availability Zone as the EC2 instance.
2. Attach the volume to the EC2 instance.
3. Verify the attachment using `lsblk` command inside the EC2 instance.

Procedure

Step 1: Create an EBS Volume

- Open the AWS Management Console → Navigate to EC2 → Volumes → Create Volume.
- Select the same Availability Zone as the target EC2 instance.
- Specify size, type, and other parameters.
- Click Create Volume.

☰ [EC2](#) > [Volumes](#) > Create volume

Create volume [Info](#)

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Volume settings

Volume type [Info](#)

General Purpose SSD (gp3)

Size (GiB) [Info](#)

25

Min: 1 GiB, Max: 16384 GiB.

IOPS [Info](#)

3000

Min: 3000 IOPS, Max: 16000 IOPS.

Throughput (MiB/s) [Info](#)

125

Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

Availability Zone [Info](#)

us-east-1c

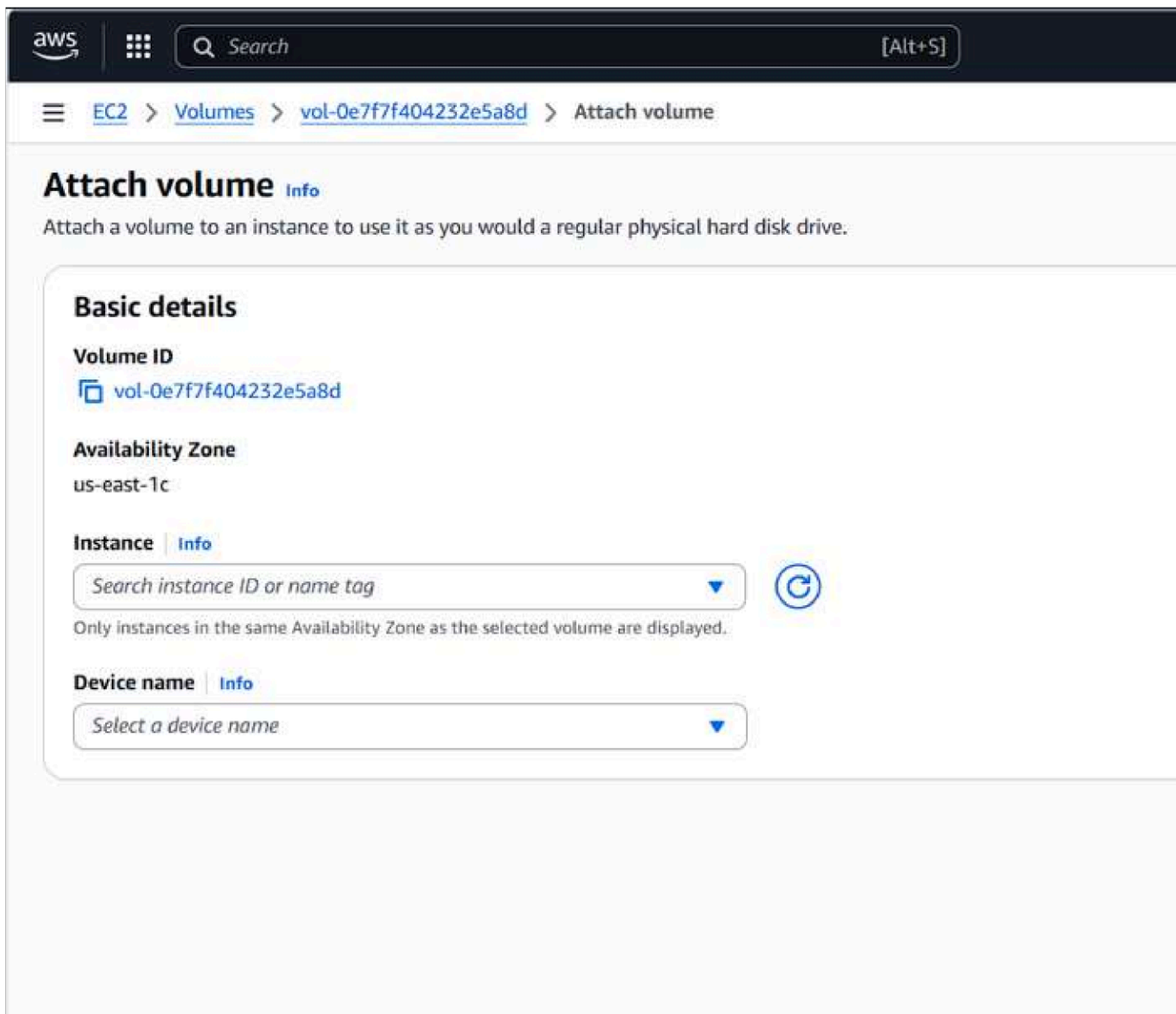
Snapshot ID - optional [Info](#)

Step 2: Attach the Volume to EC2

- Select the newly created volume in the EC2 → Volumes section.
- Choose Actions → Attach Volume.
- Select the target EC2 instance.
- Confirm the attachment.

Step 3: Verify Volume Attachment •

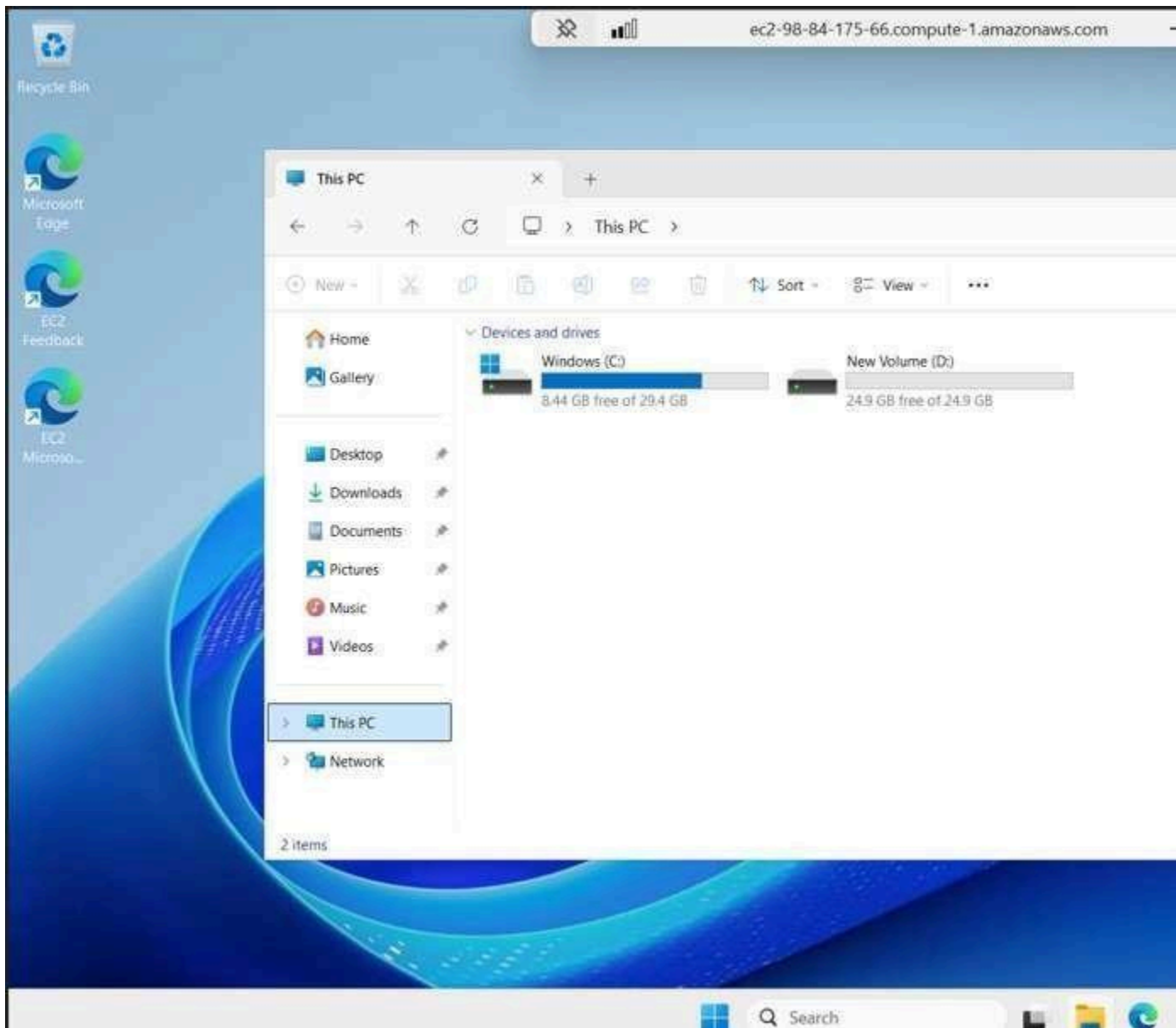
Connect to the EC2 instance via SSH.



- Run the following command:

```
lsblk
```

- The new volume (e.g., /dev/xvdf) should be visible in the output.



Deliverables

- Screenshot of volume creation
- Screenshot of volume attachment
- Screenshot of lsblk output showing the new volume