AWS Lab 3

Verifying, Extending, creating, attaching and detaching EBS Volume.

Overview of the lab

In this lab you will learn to how to verify, extend, create, attach and detach elastic block store volume

Elastic block storage

Amazon Elastic Block Store (Amazon EBS) is an easy-to-use, scalable, high-performance block-storage service designed for Amazon Elastic Compute Cloud (Amazon EC2)

Volume

Volume is a storage device formatted to store data

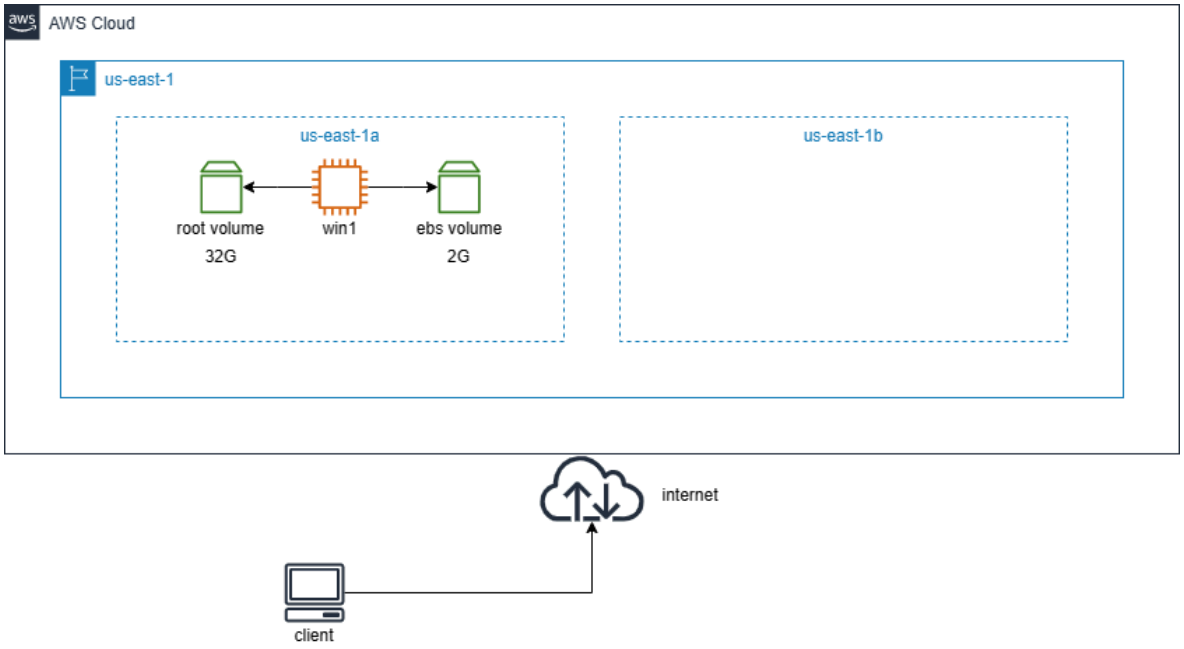
IOPS

IOPS are a unit of measure representing input/output operations per second.

Throughput

Throughput is the measure of the amount of data transferred from/to a storage device in a megabytes per second.

Architecture of the Lab



Step by Step Lab

Launching windows instance, connecting to it and verify disk

1. Launch an EC2 instance
    a. Name and tag – win1
    b. Application and OS Images – Windows
    c. Instance type - t2.micro
    d. Key pair – select the existing keypair
    e. Edit Network settings
        a. Subnet – subnet in us-east-1a
        b. Firewall – select existing security group
    f. Configure storage - Click on advanced (verify storage type, size and delete on termination)

g. Launch instance

2. Connect to remote windows via RDP and verify disk

diskmgmt.msc

Extending EBS volume (aws console)

1. Select the instance, click on storage, click on volume id
2. Select the volume, in Actions, click on Modify volume
3. Change the size from 30GB to 32GB - Click on Modify

Extending partition (within windows)

1. In disk management, right click on C partition click on extend volume
2. Verify the extended C partition

Create new EBS volume (aws console)

1. Click on volumes and click on create volume
2. Size - 2GB
3. Availability zone - us-east-1a (where instance is running)
4. Click on create volume

Attach EBS volume (aws console)

1. Select the volume, in actions click on attach volume
2. Select the instance and click on attach volume

Verify and Create Partition (within windows)

1. In disk management, select disk1 and make online
2. Again select and initialize
3. Right click on the unallocated portion and create new simple volume D drive
4. In D drive store data

Detach EBS volume (aws console)

1. Select the 2GB volume, in actions click on detach volume
2. click on detach volume

Clean Up Step

1. Select the instance and terminate it (root volume will be deleted since delete on termination is enabled)
2. Select the 2GB EBS volume and delete