Working with Amazon EBS – Lab Guide

Lab Overview

Amazon Elastic Block Store (Amazon EBS) is a scalable, high-performance block storage service designed for Amazon EC2. In this lab, you learn how to create an EBS volume, attach it to an EC2 instance, create a file system, and take a snapshot backup.

Objectives

• Create an EBS volume
• Attach and mount an EBS volume to an EC2 instance
• Create a snapshot of an EBS volume
• Create an EBS volume from a snapshot

Duration

This lab requires approximately 45 minutes to complete.

Task 1: Creating a New EBS Volume

Open the EC2 Management Console, note the Availability Zone of the Lab instance, and create a new EBS volume (1 GiB, gp2) in the same Availability Zone. Add a tag with Name = My Volume.

Task 2: Attaching the Volume to an EC2 Instance

Select My Volume, choose Attach volume, select the Lab instance, and choose /dev/sdb as the device name.

Task 3: Connecting to the EC2 Instance

Use EC2 Instance Connect from the AWS Management Console to open a terminal session to the Lab EC2 instance.

Task 4: Creating and Configuring the File System

Use Linux commands to format the volume with ext3, mount it to /mnt/data-store, and verify it using df -h. Create a test file and confirm its contents.

Task 5: Creating an Amazon EBS Snapshot

Create a snapshot of My Volume, tag it as My Snapshot, and verify that the snapshot status changes to Completed. Delete the test file from the mounted volume.

Task 6: Restoring the Amazon EBS Snapshot

Create a new volume from the snapshot, attach it to the EC2 instance as /dev/sdc, mount it to /mnt/data-store2, and verify that the deleted file is restored.

Conclusion

You have successfully created and attached EBS volumes, created snapshots, and restored data from snapshots.