

Lab-1 Error handling Manual

This document refers to the errors that might occur during the lab 1 assignment

Naming Conventions:

- All the resources should have proper naming conventions. Please go through the below examples
- Name of the resources should be set while creation only
- Name of EBS volume can only be given after creation

Examples:

Ec2 instance - lab-1-(unique ID)

Volume - lab-1-(unique ID)

Load balancer - lab-1-(unique ID)

Target group - lab-1-(unique ID)

S3 Bucket - lab-1-(unique ID)

1.EC2 Instance creation:

- To launch an ec2 instance please use linux ami (pre-selected) and instance type as t2 micro or t2 small.

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name
 [Add additional tags](#)

Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI
ami-03e312c9b09e29831 (64-bit (x86), uefi-preferred) / ami-0377d0c11a0938158 (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs [Free tier eligible](#)

Description
Amazon Linux 2023 AMI 2023.0.20230419.0 x86_64 HVM kernel-6.1

Architecture Boot mode AMI ID [Verified provider](#)

Instance type [Info](#)

Instance type
 [Free tier eligible](#)

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows pricing: 0.0192 USD per Hour
On-Demand RHEL pricing: 0.0746 USD per Hour
On-Demand Linux pricing: 0.0146 USD per Hour
On-Demand SUSE pricing: 0.0146 USD per Hour

☐ All generations [Compare instance types](#)

- If you are using any other type of instance an error will be thrown and will deny the launch

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 (gp2)

Size (GiB) [Info](#)

100

Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS [Info](#)

300 / 3000

Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

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

Not applicable

Availability Zone [Info](#)

ap-southeast-1a

Snapshot ID - optional [Info](#)

Don't create volume from a snapshot

Encryption [Info](#)

Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.

☐ Encrypt this volume

Tags - optional [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

[Add tag](#)

You can add 50 more tags.

You are not authorized to perform this operation. Encoded authorization failure message:

```

Z0K_gdpdRdp2Ztsf5rAtepXY575J7P2Z5CVI8BU1pQJH4Kbccc4wEjzUjHrpVUgAFVMe4V9KWbPowZlp-
Nvqjku21UfPc7gXhC4h_M89tznGajq20ZVW8WbWIEc7wYYW2snHx3_q3CBUrGbxG7ps7FTQhvhzciRbqwBgWQR68
7f59aL0z9jH5SKxX5KAc-
Sjc_kchYD22imdvACurDKXX2ZPHzRPNUin2x3dbyo_gNY5b5Rf3ugBKSOQIzQyI5ythNEyT_iIqX64hwevUx_dYEDd
a3hw21Npm1qUR5c7BUVM9eEIA3vpbcD_RimZ2ncsVgl4wUvx2y5807ZsWpNwdq5b3h5GEBBdpiTN6oKBaHf3cfao
hAVopvqnAcUpzReWHz_a8v2p9Vn_IG57pavFaVcyibh95fyzQIHV6zWfkwlePLENJK-
A65p9LxofP9UyYzqLUN79VL2dMSxXqgfbnCC4Wfof00nuP7HUKaZD2yXtwLSI2oyJY9I-
cUx17BGkhfZ3pDmpgVdWRKJ1dY6VhmtU0eazghCq2sQwYGqGTGcNFbb3nb4mJYnLqpkdKPuabRjnb89w9CU-
s1q1K2WF2w7cRdP64XwyMTVmSGDP5wsculqJCI07L0Hx1TYBe124_iINHv6Sd_LL-
_JE6GT8NZIT8pDA1Fny4xdFEDwnheOMOGM

```

Cancel [Create volume](#)

- Please chose 1-2 GB of volume only,once you chose the proper size and type

3.Load Balancers and Target Groups:

- While creation of load balancers or target groups make sure to maintain proper naming conventions
- Please chose the type as application load balancer
- Use the security group as the one provided in the credentials document

4.Security Group:

- Refer to this section if you are facing any connection issues to the ec2 instance or for ec2-load balancer connection issue
- The same security group can be used for load balancers and ec2 instances, tying to create a security group might cause an error
- modifications of any security group rules is not allowed
- Make sure that you are using the exact security group as given in the Credentials Document and the below rules are allowed in the security group

port 22 is allowed for your public ip

port 80 is allowed for your public ip

port 80 is allowed for self security group

- If still you are facing any conenction issues check if your public ip has changed and reach out to TA team

5. S3 Bucket Creation :

- Please follow unique and proper naming convention for S3 bucket creation

- While choosing the region please select "ap-southeast-1" for the bucket
- Public access of the bucket is not required
- You would have only have access to the bucket created by you
- Creation of multiple s3 buckets is not allowed

6.Attempts to Stop& Delete resources: