

CSCI 5410 – Lab Activity 2

B00917961 – Arihant Dugar

The screenshot shows the AWS Management Console interface for the Amazon S3 Buckets page. The browser address bar shows the URL: `s3.console.aws.amazon.com/s3/buckets?region=us-east-2®ion=us-east-2`. The console header includes the AWS logo, a search bar with 'lambda' entered, and navigation icons. The main content area is titled 'Amazon S3 > Buckets' and features an 'Account snapshot' section with a 'View Storage Lens dashboard' button. Below this, the 'Buckets (4)' section shows a list of buckets. The bucket 'lab-activity-2-b00910961' is highlighted in yellow. The right sidebar contains a 'Buckets' section with a close button, followed by a description of buckets, 'Manage access' information, 'Configure your bucket' instructions, and 'Understand storage' details.

Account snapshot
Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Buckets (4) [Info](#) [Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3. [Learn more](#)

	Name	AWS Region	Access
<input type="radio"/>	csci5410-f23-sdp3-dev-serverlessdeploymentbucket-8n4tvj6ngux7	US East (Ohio) us-east-2	Bucket and objects not public
<input type="radio"/>	csci5410-f23-sdp3-dev-serverlessdeploymentbucket-x2ahm66y56sa	US East (Ohio) us-east-2	Bucket and objects not public
<input type="radio"/>	lab-activity-2-b00910961	US East (Ohio) us-east-2	Objects can be public
<input type="radio"/>	menu-items-bucket-csci5410	US East (Ohio) us-east-2	Public

Buckets

Buckets are containers for objects stored in Amazon S3. You can store any number of objects in a bucket and can have up to 100 buckets in your account. To request an increase, visit the [Service Quotas Console](#). You can create, configure, empty, and delete buckets. However, you can only delete an empty bucket.

Manage access

Buckets are private and can only be accessed if you explicitly grant permissions. To review the public access settings for your buckets, make sure that you have the required permissions or you'll get an error. Use bucket policies, IAM policies, access control lists (ACLs), and S3 Access Points to manage access.

Configure your bucket

You can configure your bucket to support your use case. For example, host a static website, use S3 Versioning and replication for disaster recovery, S3 Lifecycle to manage storage costs, and logging to track requests.

Understand storage

Successfully updated the function lab-activity-2-b00917961.

Lambda > Functions > lab-activity-2-b00917961

lab-activity-2-b00917961

Throttle Copy ARN Actions

Function overview Info

Export to Application Composer Download function

Diagram Template

lab-activity-2-b00917961

Layers (0)

S3

+ Add trigger

+ Add destination

Description

-

Last modified

11 minutes ago

Function ARN

arn:aws:lambda:us-east-2:647699178520:func
tion:lab-activity-2-b00917961

Function URL Info

-

Code Test Monitor Configuration Aliases Versions

Code source Info

Upload from

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P)

lab-activity-2-b0091 index.js

```
1
2
3
4 exports.handler = async (event, context) => {
5
6
7   try {
8     const S3 = new AWS.S3();
9     const SNS = new AWS.SNS();
10    const s3Event = event.Records[0].s3;
11    const bucket = s3Event.bucket.name;
12    const key = decodeURIComponent(s3Event.object.key.replace(/\+/g, ' '));
13
14    const params = {
15      Bucket: bucket,
16      Key: key
17    };
18
19    // Get file information from S3 object metadata
20    const { ContentLength, ContentType, LastModified } = await S3.headObject(params).promise();
21
22    // Prepare message to be sent to SNS topic
23    const message = `New file uploaded to S3 : \nFile Name - ${key}\nFile Type - ${ContentType}\nFile Size - ${ContentLengt
24
25    // Publish message to an SNS topic
26    const paramsSNS = {
27      Message: message,
28      TopicArn: 'arn:aws:sns:us-east-2:647699178520:send-email'
29    };
30
31    await SNS.publish(paramsSNS).promise();
32
33    return { statusCode: 200, body: 'File info sent to SNS.' };
34  } catch (error) {
35    console.error('Error:', error);
36    return { statusCode: 500, body: 'Error processing the file.' };
37  }
38};
```

36:4 JavaScript Spaces: 2

Amazon SNS

Dashboard

Topics

Subscriptions

▼ Mobile

Push notifications

Text messaging (SMS)

Origination numbers

New Feature

Amazon SNS now supports in-place message archiving and replay for FIFO topics. [Learn more](#)

Amazon SNS > Topics > send-email

send-email

EditDeletePublish message

Details

Name

send-email

ARN

arn:aws:sns:us-east-2:647699178520:send-email

Type

Standard

Display name

-

Topic owner

647699178520

<SubscriptionsAccess policyData protection policyDelivery policy (HTTP/S)Delivery status logg>

Subscriptions (1)

EditDeleteRequest confirmationConfirm subscriptionCreate subscription

Search

ID

Endpoint

Status

Protocol

14ae374a-3981-46ac-a...arihant.dugar@dal.caConfirmedEMAIL

FileHomeSend / ReceiveViewHelp

New EmailUnread / ReadSearch PeopleReply with Scheduling Poll

▼ Favorites

Inbox432

Sent Items

Drafts

Deleted Items

▼ Arihant.Dugar@dal.ca

Inbox432

Drafts

Sent Items

Deleted Items

Archive

> Conversation History

Junk Email(1)

Outbox

RSS Feeds

Search Folders

FocusedOtherBy Date

Today

AWS Notifications

AWS Notification Message

CAUTION: The Sender of this

11:45 PM

AWS Notifications

AWS Notification Message

CAUTION: The Sender of this

11:43 PM

AWS Notifications

AWS Notification Message

CAUTION: The Sender of this

11:38 PM

AWS Notifications

AWS Notification - Subscription...

CAUTION: The Sender of this

11:25 PM

Crowdmark Mailer

CSC6612 - Visual Analytics (Sec...

7:52 PM

AWS Notification Message

ANAWS Notifications <no-reply@sns.amazonaws.com>

To: Arihant Dugar

Fri 2023-11-24 11:45 PM

CAUTION: The Sender of this email is not from within Dalhousie.

New file uploaded to S3 :
File Name - b00917961.txt
File Type - text/plain
File Size - 70
Timestamp - Sat Nov 25 2023 03:44:31 GMT+0000 (Coordinated Universal Time)

...
If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:
<https://sns.us-east-2.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-2:647699178520:send-email:14ae374a-3981-46ac-a740-660d64e536ba&Endpoint=arihant.dugar@dal.ca>

Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at <https://aws.amazon.com/support>