

PES UNIVERSITY

UE19CS352

Cloud Computing

Lab - 01

Introduction to Serverless Computing with
AWS Lambda

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Deliverables:

The following screenshots are to be submitted:

a. 1a.png: Showing two S3 buckets created - one having the original image and another 'target'

bucket to hold the resized image. The names of the buckets should be: <Your SRN> and <Your SRN-resized> respectively. Eg: pes1201900001 and pes1201900001-resized.

The screenshot shows the Amazon S3 console interface. On the left is a navigation sidebar with options like Buckets, Access Points, and Storage Lens. The main content area displays an 'Account snapshot' with metrics: Total storage (22.3 KB), Object count (19), and Avg. object size (1.2 KB). Below this is a 'Buckets (4)' section with a search bar and a table of buckets. Two buckets are highlighted with orange arrows: 'pes2ug19cs412' and 'pes2ug19cs412-resized'. The table columns are Name, AWS Region, Access, and Creation date.

| Name | AWS Region | Access | Creation date |
|---|---------------------------------|-------------------------------|--|
| pes2ug19cs412 | US West (Oregon) us-west-2 | Bucket and objects not public | January 28, 2022, 14:30:49 (UTC+05:30) |
| pes2ug19cs412-resized | US West (Oregon) us-west-2 | Bucket and objects not public | January 28, 2022, 14:31:22 (UTC+05:30) |
| ql-cf-templates-1643360289-ffa447e570041f3f-us-west-2 | US West (Oregon) us-west-2 | Objects can be public | January 28, 2022, 14:28:12 (UTC+05:30) |
| qltrail-lab-4100-1643360292 | US East (N. Virginia) us-east-1 | Objects can be public | January 28, 2022, 14:28:14 (UTC+05:30) |

b. 1b.png: Showing the Test run successfully (Include Details).

The screenshot displays the AWS Lambda console for the 'Create-Thumbnail' function in the 'us-west-2' region. The 'Test' tab is selected, showing a successful test event named 'ImageUpload'. A green notification bar at the top states 'The test event ImageUpload was successfully saved.' Below this, the 'Execution result: succeeded (logs)' section is expanded, showing a 'null' result. The 'Summary' section provides details about the execution, including the code SHA, request ID, and various durations. The 'Log output' section shows the start and end of the execution with a detailed report.

Execution result: succeeded (logs)

Details

The area below shows the result returned by your function execution. [Learn more](#) about returning results from your function.

null

Summary

| | |
|--|--|
| Code SHA-256 hDKiLU+8k2GwuEO2YjCSXBeykrf5auTN90I84Ub5sY4= | Request ID 9ccba2a4-a0ee-4317-a9f9-8a06c99dc877 |
| Init duration 507.53 ms | Duration 1039.25 ms |
| Billed duration 1040 ms | Resources configured 128 MB |
| Max memory used 68 MB | |

Log output

The section below shows the logging calls in your code. [Click here](#) to view the corresponding CloudWatch log group.

```
START RequestId: 9ccba2a4-a0ee-4317-a9f9-8a06c99dc877 Version: $LATEST
END RequestId: 9ccba2a4-a0ee-4317-a9f9-8a06c99dc877
REPORT RequestId: 9ccba2a4-a0ee-4317-a9f9-8a06c99dc877 Duration: 1039.25 ms Billed Duration: 1040 ms Memory Size: 128 MB Max Memory Used: 68 MB Init Duration: 507.53 ms
```

c. 1c.png: Showing the thumbnail created in the resized image bucket.

Before

The screenshot shows the Amazon S3 console interface. The browser address bar displays `s3.console.aws.amazon.com/s3/buckets/pes2ug19cs412?region=us-west-2&tab=objects`. The left sidebar shows the 'Amazon S3' navigation menu with options like Buckets, Access Points, and Storage Lens. The main content area shows the bucket 'pes2ug19cs412' with tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. The 'Objects' tab is active, displaying a table with one object: 'HappyFace.jpg'. The table columns are Name, Type, Last modified, Size, and Storage class. The 'Size' column shows '128.2 KB'. An orange arrow points to the 'Size' column.

| Name | Type | Last modified | Size | Storage class |
|---------------|------|--|----------|---------------|
| HappyFace.jpg | jpg | January 28, 2022, 14:36:47 (UTC+05:30) | 128.2 KB | Standard |

After

The screenshot shows the Amazon S3 console interface for the bucket 'pes2ug19cs412-resized'. The browser address bar displays `s3.console.aws.amazon.com/s3/buckets/pes2ug19cs412-resized?region=us-west-2&tab=objects`. The left sidebar shows the 'Amazon S3' navigation menu. The main content area shows the bucket 'pes2ug19cs412-resized' with tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. The 'Objects' tab is active, displaying a table with one object: 'HappyFace.jpg'. The table columns are Name, Type, Last modified, Size, and Storage class. The 'Size' column shows '2.6 KB'. An orange arrow points to the 'Size' column.

| Name | Type | Last modified | Size | Storage class |
|---------------|------|--|--------|---------------|
| HappyFace.jpg | jpg | January 28, 2022, 14:50:18 (UTC+05:30) | 2.6 KB | Standard |
