LSC raport
Lab 6
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AGH

Task 1.

a)

index.js

```javascript
const fs = require('fs');
const html = fs.readFileSync('index.html', { encoding:'utf8' });

/**
 * Returns an HTML page containing an interactive Web-based
 * tutorial. Visit the function URL to see it and learn how
 * to build with lambda.
 */
exports.handler = async (event) => {
    const response = {
        statusCode: 200,
        headers: {
            'Content-Type': 'text/html',
        },
        body: html,
    };
    return response;
};
```

ounzg2k5jxt2flal3skuyrbxza0dfgzl.lambda-url.us-east-1.on.aws

Hello from AWS Lambda!

The blueprint function you created rendered this page

This is a learning example. Our customers use Lambda to run web and mobile backends, microservices, process streams in real time, run big data processing or ML inference workloads, and much more.

Now let's dig into some code to make this page dynamic:

Step 1: Read user input in your Lambda function

Step 2: Store the input in a serverless database

Step 3: Render the content from the database

b)

index.js

```
exports.handler = async (event) => {
    const name = event["queryStringParameters"]["name"]
    const response = {
        statusCode: 200,
        headers: {
            'Content-Type': 'text/html',
        },
        body: `<!DOCTYPE html>
                <html>
                    <body>
                        <h1>Hello ${name}!</h1>
                    <body
                </html>`,
    };
    return response;
};
```

Function_with_HTTP_UR - Lambd

https://6xzrj6xm3xwrqgyoj2krorl

6xzrj6xm3xwrqgyoj2krorl2vm0ofepo.lambda-url.us-east-1.on.aws/?name=Dawid

Hello Dawid!

Task 2.

Upload succeeded
View details below.

Upload: status

The information below will no longer be available after you navigate away from this page.

Summary

Destination	Succeeded	Failed
s3://dboutput-a	1 file, 26.0 B (100.00%)	0 files, 0 B (

Files and folders | Configuration

Files and folders (1 Total, 26.0 B)

Amazon S3 > Buckets > dboutput-b

dboutput-b Info

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects i
objects, you'll need to explicitly grant them permissions. Learn more

Copy S3 URI | Copy URL | Download | Open | Delete

Create folder | Upload

Find objects by prefix

Name	Type	Last modified
a.txt	txt	November 26, 2022, 20:37:32 (UTC+01:00)

```
[output-a]
dokument
abcd
uploaded at: 2022-11-27 12:15:36.342576
```

lambda_function

```python
import json
import boto3
from datetime import datetime

def lambda_handler(event, context):
    s3 = boto3.client('s3')
    bucket_name = event['Records'][0]['s3']['bucket']['name']
    file = event['Records'][0]['s3']['object']['key']
    response = s3.get_object(Bucket=bucket_name, Key=file)
    content = response['Body'].read()
    line=content.splitlines()[0]
    new_content = content + bytes(f'\nuploaded at: {datetime.now()}', 'utf-8')

    if bucket_name == 'dboutput-a' and line == b'[output-a]':
        s3.put_object(Bucket='dboutput-b', Key=file, Body=new_content)
    elif bucket == 'dboutput-b'and line == b'[output-b]':
        s3.put_object(Bucket='dboutput-a', Key=file, Body=new_content)

    return {
        'statusCode': 200,
        'body': json.dumps('Completed!')
    }

```