

Lambda function URLs

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1 Purpose

- Lambda function URLs are a simple way to provide HTTPS endpoints for a Lambda function.
- The incoming HTTPS *request* is converted to the Lambda **event** object.
- The **return** object is converted to the HTTPS *response*.

2 Event object

The event object contains the HTTP request info as a Python dictionary.

This has a particular defined structure when called from a Lambda function URL.

2.1 Query string parameters

Query string parameters often supply input to web APIs:

`https://api.name/function?name=Peadar&town=Dundalk`

These can be accessed by name through

```
event['queryStringParameters']
```

3 Return object

The return object must obey a specific structure. As a minimum, the Python dictionary must have:

```
{
    'statusCode': 200,
    'body': body_variable
}
```

Note:

- The statusCode normally is 200 indicating a successful request.
- The body is *text* returned to the browser.

3.1 **Body**

The body must be as plain text.

Python dictionary structures should be converted using:

```
body = json.dumps(my_dict)
```

This can be confusing since the outer event and returned objects are converted from/to JSON transparently!