

API Gateway Tips

Tips on Passing and Receiving Parameters

After creating your Resource (e.g. `/bucket`) and an associated Method (e.g. GET), go to the "Integration Request" tab and press the "Edit" button.

The screenshot shows the AWS API Gateway console interface. On the left, a sidebar lists resources: `/`, `/bucket` (with a **DELETE** button), `GET` (circled in red), `OPTIONS`, `POST`, and `/list` (with `GET` and `OPTIONS` options). The main panel is titled `/bucket - GET - Method execution` and includes buttons for `Update documentation` and `Delete`. It displays the ARN `arn:aws:execute-api:us-east-1:552436481698:8uptkzqt7/*/GET/bucket` and Resource ID `rm2mbg`. A flow diagram shows the sequence: Client → Method request → Integration request → Lambda integration → Integration response → Method response → Client. Below this, a tab bar highlights the **Integration request** tab (circled in red). The **Integration request settings** section includes an **Edit** button (circled in red). The settings table is as follows:

Integration type Info	Region
Lambda	us-east-1
Lambda proxy integration Info	Lambda function
False	hw06-get-objects
Input passthrough	Timeout
When there are no templates defined (recommended)	Default (29 seconds)

In the section for "Request body passthrough" select "When there are no templates defined (recommended)".

Request body passthrough

- ☒ When there are no templates defined (recommended)
- ☐ When no template matches the request content-type header
- ☐ Never

Expand the section for "Mapping templates" and either use a predefined template or manually type one as shown below. Enter "application/json" for the Content Type.

▼ Mapping templates

Content type

application/json

Remove

Generate template

Template body

```
1 {  
2   "bucket": "$input.params('bucket')"  
3 }
```

Add additional keys as needed. For instance, "file_name" or "body".

In your receiving lambda function, you will now have a value in your event object corresponding to what you just passed through in the mapping template above. For instance, in Python, you could access the value by using the code:

```
def lambda_handler(event, context):  
    bucket_name = event["bucket"]
```

Handling POST body

In API Gateway, create a new resource for "POST". In the "Method Request", create a "Request Body" with a content type of "application/json" and a Name of "Empty".

In the "Integration Request", you may find it easier to use the "Generate template" feature for creating a Mapping template. Select the "Method request passthrough" option and use the default template. The only caveat to this approach is that you need to use code like this in your receiving Python function:

```
def lambda_handler(event, context):  
    bucket_name = event['body-json']['bucket']  
    file_name = event['body-json']['file_name']
```