

Prerequisites

To complete this exercise solution, you will need:

- [Python3](#) installed

Create the Lambda Package

For this section, you will need to have Python3 installed.

Lambda Functions are triggered by **events**. When our Lambda Function is triggered, our function will check if the event has a "name" field. if the even has a "name" field, our function will store the name in Redis. If the event does not have a name field, our function will fetch the name set in Redis.

1. Create a new folder on your computer called **hello**
2. Create a new file called **main.py** inside the **hello** folder
3. Copy the following code into the **main.py** file

```
import redis
import os
import json

def handler(event, context):
    print("Received event: " + json.dumps(event, indent=2))
    redis_host = os.environ.get("REDIS_HOST")
    redis_port = 6379
    redis_password = ""

    r = redis.StrictRedis(
        host=redis_host,
```

```

redis_host=redis_host,
port=redis_port,
password=redis_password,
decode_responses=True
)

name = event.get("name")

if event.get("body"):
    name = json.loads(event["body"]).get("name")

if name:
    redis_successful_set = r.set("name", name)
    if redis_successful_set:
        return {
            "statusCode": 200,
            "body": "Success! {name} was written to Redis".format(name=name)
        }
    else:
        return {
            "statusCode": 500,
            "body": "Oops! Could not write {name} to Redis".format(name=name)
        }

return {
    "statusCode": 200,
    "body": "Hello {name} nice to meet you".format(name=r.get("name").decode('utf-8'))
}

```

4. Use the following command to install the code dependencies into a folder called **package**

```
pip3 install --target ./package Redis
```

5. Create a ZIP archive of the dependencies using the following command

```

~hello$ cd package
~hello/package$ zip -r9 ../function.zip .

```

6. Add your function code to the archive

```
~/hello/package$ cd ..  
~/hello$ zip -g function.zip main.py
```