

Create a Lambda function which will log "An object has been added" once you add an object to a specific bucket in S3.

**Step1:** From the AWS Management Console under compute section, select AWS Lambda.

## Amazon Web Services

### Compute



#### EC2

Virtual Servers in the Cloud



#### EC2 Container Service

Run and Manage Docker Containers



#### Elastic Beanstalk

Run and Manage Web Apps



#### Lambda

Run Code without Thinking about Servers



#### Server Migration

Migrate on-premises servers to AWS

### Storage & Content

### Developer Tools



#### CodeCommit

Store Code in Private Git Repositories



#### CodeDeploy

Automate Code Deployments



#### CodePipeline

Release Software using Continuous Delivery

### Management Tools



#### CloudWatch

Monitor Resources and Applications



#### CloudFormation

Create and Manage Resources with Templates

### Internet of Things



#### AWS IoT

Connect Devices to the Cloud

### Game Development



#### GameLift

Deploy and Scale Session-based Multiplayer Games

### Mobile Services



#### Mobile Hub

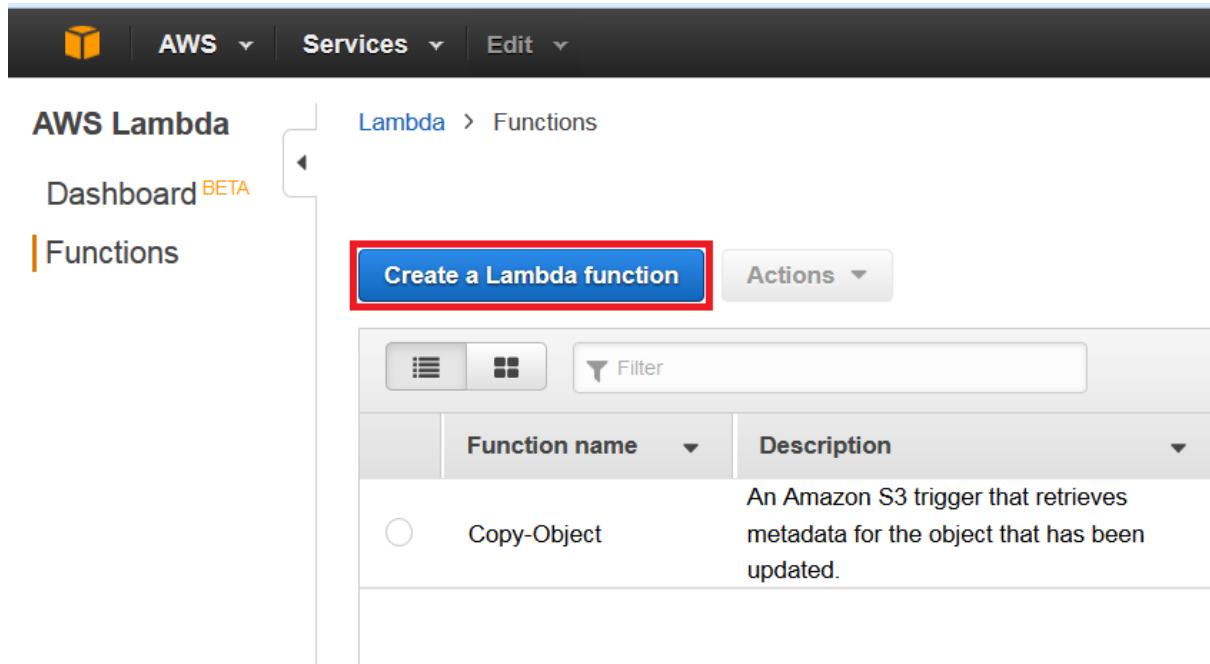
Build, Test, and Monitor Mobile Apps



#### Cognito

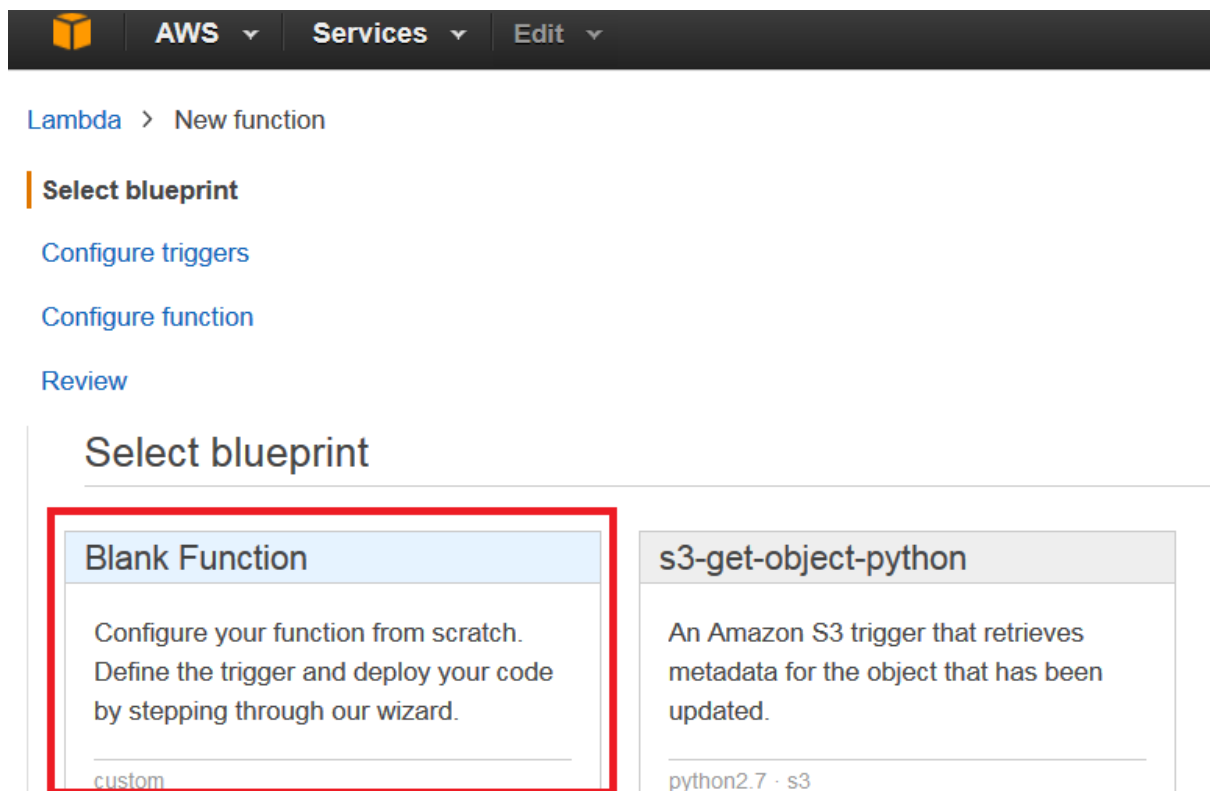
User Identity and App Data Synchronization

**Step2:** On the AWS Lambda Console, click on "Create a Lambda function".



The screenshot shows the AWS Lambda console interface. At the top, there's a navigation bar with the AWS logo, 'AWS' dropdown, 'Services' dropdown, and 'Edit' dropdown. On the left, the 'AWS Lambda' section is active, with 'Dashboard BETA' and 'Functions' links. The main content area shows the 'Functions' page with a breadcrumb 'Lambda > Functions'. A blue button labeled 'Create a Lambda function' is highlighted with a red rectangular box. To its right is an 'Actions' dropdown menu. Below these, there's a table with columns 'Function name' and 'Description'. A single function named 'Copy-Object' is listed with the description 'An Amazon S3 trigger that retrieves metadata for the object that has been updated.'


**Step3:** On the next page, you have to select a blueprint. For example, we will be selecting the blank function for our use-case.




The screenshot shows the 'New function' page in the AWS Lambda console. The breadcrumb is 'Lambda > New function'. On the left, there's a sidebar with 'Select blueprint' (highlighted with an orange bar), 'Configure triggers', 'Configure function', and 'Review'. The main content area is titled 'Select blueprint' and shows two blueprint options. The 'Blank Function' option is highlighted with a red rectangular box. It includes the text 'Configure your function from scratch. Define the trigger and deploy your code by stepping through our wizard.' and a 'custom' label at the bottom. The other option is 's3-get-object-python', which includes the description 'An Amazon S3 trigger that retrieves metadata for the object that has been updated.' and 'python2.7 · s3' at the bottom.


**Step4:** On the next page you will be (1) setting a trigger, since we are going to work on S3, (2) select the S3 trigger and then (3) click Next.


**Configure triggers**  
Configure an optional trigger to automatically invoke your function.


1. 

 **Lambda**

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2.  AWS IoT

 **S3**

 SNS

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**Step5:** On the configuration page, fill in the details. You can put your own code, or you can copy the same code from this use-case. After that, fill the handler and role, leave the advanced settings as it is, in the end click next.

### Configure function

A Lambda function consists of the custom code you want to execute. [Learn more](#) about Lambda functions.

**Name\***

**Description**

**Runtime\***

### Lambda function code

**Code entry type**

```
1 exports.handler = (event, context, callback) => {  
2   console.log('An object in S3 is added');  
3 };
```

### Lambda function handler and role

**Handler\***

**Role\***  [i](#)

**Role name\***  [i](#)

**Policy templates**  [i](#)

**Step7:** Now, since we created the function for S3 bucket, the moment you add a file to your S3 bucket, you should get a log for the same in CloudWatch, which is a monitoring service from AWS.

Filter events		all	30s	5m	1h	6h	1d	1w	custom ▾
	Time (UTC +00:00)	Message							
2016-10-25									
No older events found at the moment. <a href="#">Retry</a> .									
▶	15:18:08	START RequestId: 3bdd7540-9ac6-11e6-ba06-f9f5aabe9def Version: \$LATEST							
▼	15:18:08	2016-10-25T15:18:08.416Z 3bdd7540-9ac6-11e6-ba06-f9f5aabe9def An object in S3 is added							
2016-10-25T15:18:08.416Z 3bdd7540-9ac6-11e6-ba06-f9f5aabe9def		An object in S3 is added							
▶	15:18:08	END RequestId: 3bdd7540-9ac6-11e6-ba06-f9f5aabe9def							
▶	15:18:08	REPORT RequestId: 3bdd7540-9ac6-11e6-ba06-f9f5aabe9def Duration: 17.23 ms Billed Duration: 100 ms Memory Size: 128 M							
No newer events found at the moment. <a href="#">Retry</a> .									

**Congratulations!** You have successfully executed the Lambda Function.