AWS Lambda

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AWS Lambda is a serverless compute service that lets you run code without provisioning or managing servers, maintaining event integrations, or managing runtimes.

With Lambda, you can run code for virtually any type of application or backend service - all with zero administration. Just upload your code as a ZIP file or container image, and Lambda automatically and precisely allocates compute execution power and runs your code based on the incoming request or event, for any scale of traffic.

You can set up your code to automatically trigger from 140 AWS services or call it directly from any web or mobile app. You can write Lambda functions in your favorite language (Node.js, Python, Go, Java, and more) and use both serverless and container tools, such as AWS SAM or Docker CLI, to build, test, and deploy your functions.

Benefits:

1. No servers to manage
2. Continuous Scaling
3. Cost benefits with millisecond billing
4. Consistent performanace.

Use Cases:

1. Data processing.
2. Real-time file processing.
3. Backends.
4. Web Applications.
5. IoT backends.
6. Mobile backends

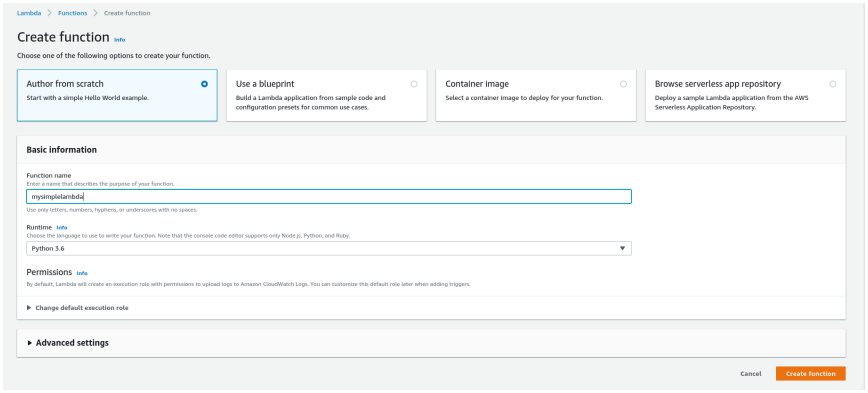
Creating a Lambda Function:
A Lambda function is triggered in response to an event - which could be from one of the AWS services or an external event like an API call.

1. Go to Lambda Console and click on `Create Function`.

   a. Enter a Name.

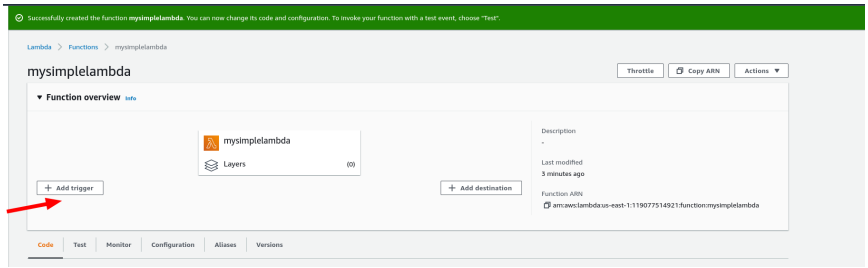
   b. Choose your run-time - The programming language in which you code is written.

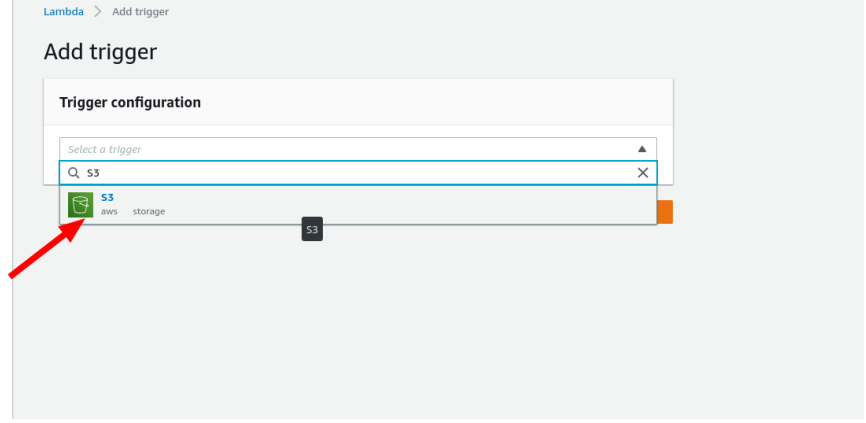
   c. Under the Permissions - Choose the Right role that meets the requirement to run your job, For instance, if the Lamdba function deals in handling S3 operations make sure the role has required permissions to the requisite S3 bukcets.

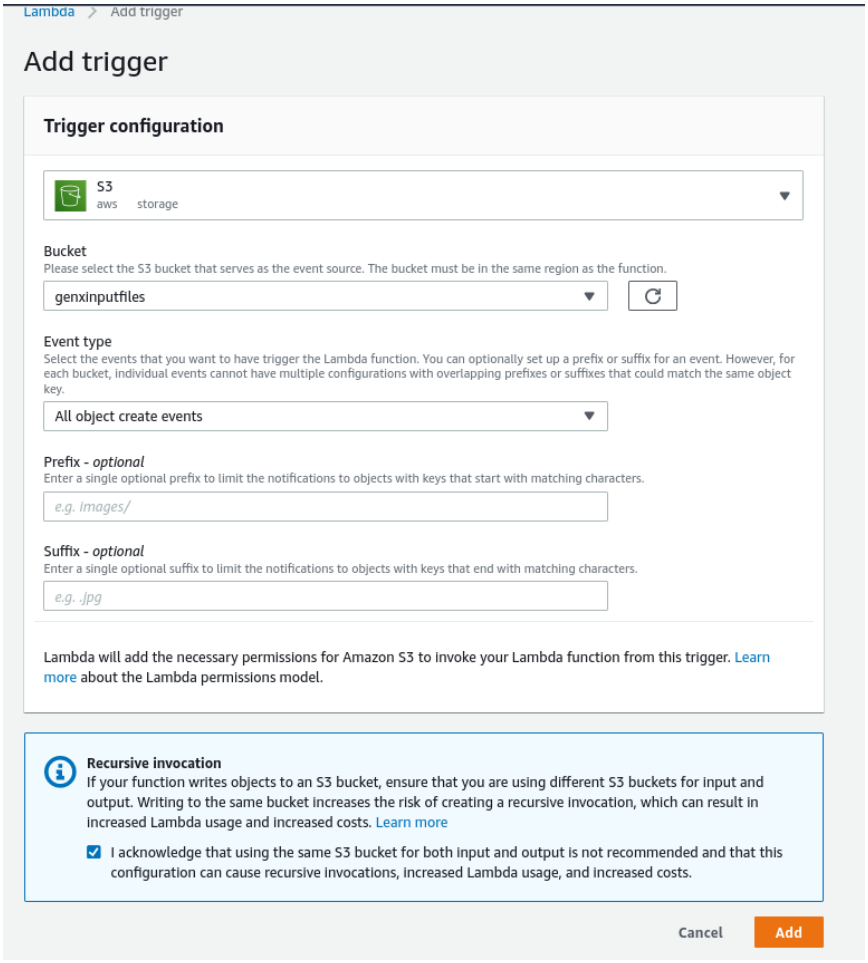


1. Add a Trigger. The trigger could be an event from one of the AWS Services or an external event.

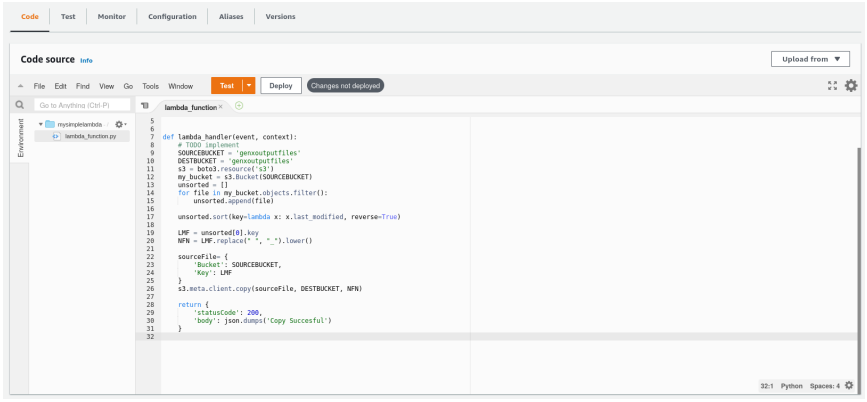
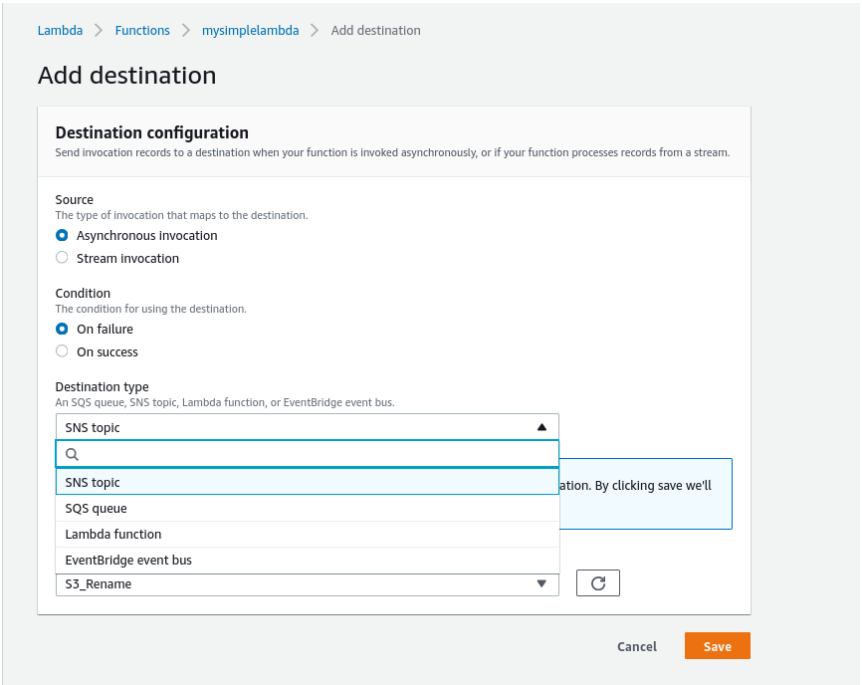
In this example, `any object creation` in a certain S3 bucket is the Trigger.


Successfully created the function mysimplelambda. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
Lambda > Functions > mysimplelambda
mysimplelambda
Throttle
Copy ARN
Actions
Function overview Info
mysimplelambda
Layers (0)
Add trigger
Add destination
Description
-
Last modified
3 minutes ago
Function ARN
arn:aws:lambda:us-east-1:119077514921:function:mysimplelambda
Code
Test
Monitor
Configuration
Aliases
Versions


Lambda > Add trigger
Add trigger
Trigger configuration
Select a trigger
S3
S3
aws storage
S3



1. Add the code to the Function. This is the key part of the lambda function.



1. Add the Destination. Destination could be a simple SNS (Notification) or another lambda function.