

Lambda



Serverless compute

Hello Lambda Lab



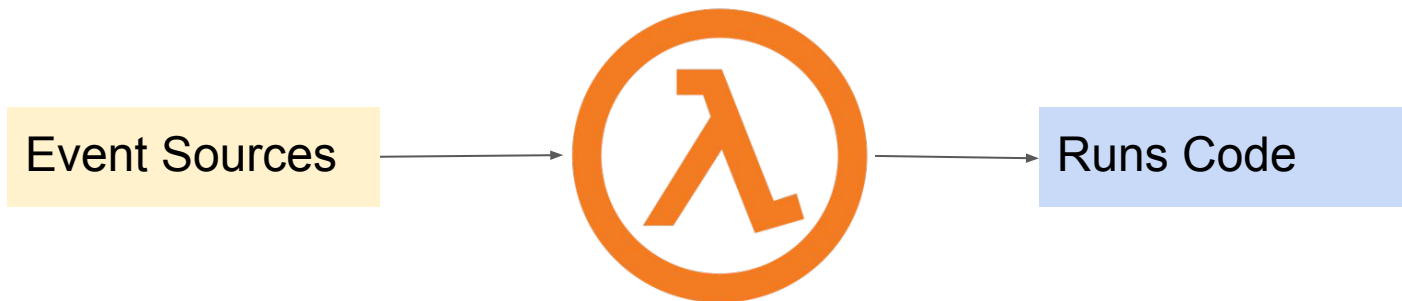
Make a hello world Lambda function

<https://docs.aws.amazon.com/lambda/latest/dg/getting-started-create-function.html>

Lambda

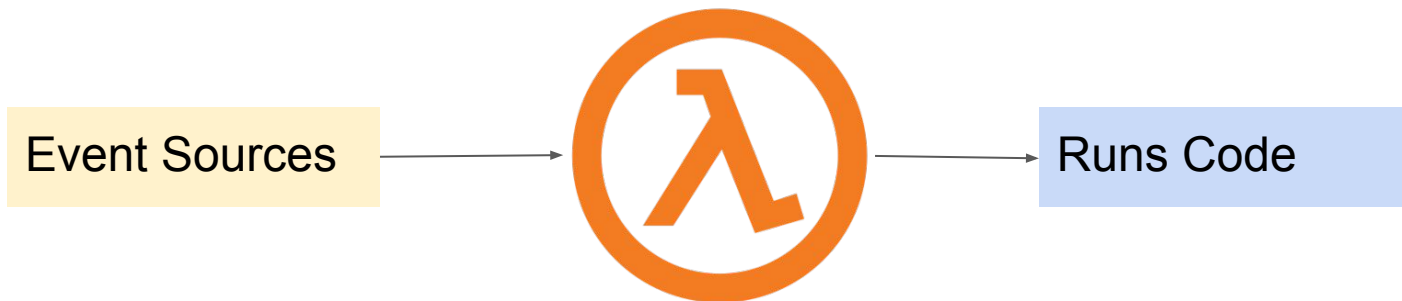
Lambda needs three things from you

1. Event Sources
2. Code
3. Configuration

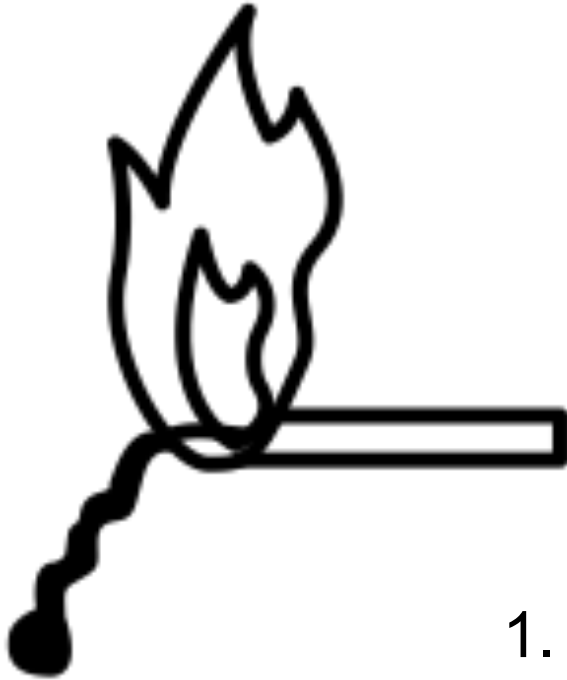


Lambda is flexible

1. Your code executes whenever an event occurs
2. Your code in lambda can do pretty much anything
 - a. execute any business logic
 - b. reach out to external web services
 - c. integrate with other AWS services
 - d. etc.



Lambda is ephemeral



1. Lambda runs up to 15 min
2. Lambda charges you per 1ms
([link](#))

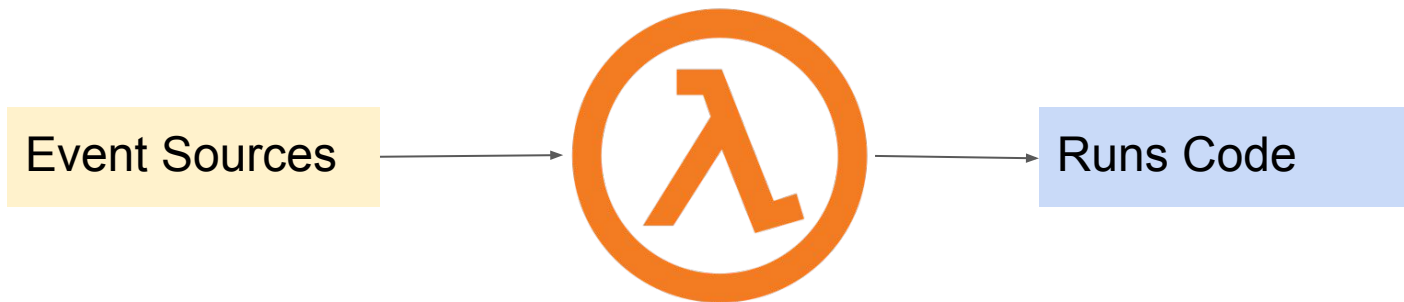
Context object

It holds information about the
function you are running

[Context object](#)

Lambda is high scale

1. Lambda will adapt to the amount of events that are sent automatically
2. Lambda parallelizes the execution of your code whenever it is necessary



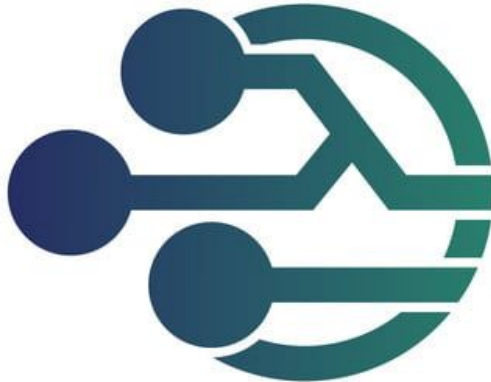
Lambda Function code

1. Lambda can run any of the supported languages (python, node, etc)
2. You can add a package to make libraries accessible to your code (the function package)
3. You can provide the code directly or reference S3



Lambda handler

1. Inside your package you provide a function called the handler which lambda runs
2. The handler gets h
 - a. The Event Object (information about the event source)
 - b. The Context Object (information about lambda)



AWS python sdk Lab



Make a lambda function return information about our S3 buckets and objects with python

<https://boto3.amazonaws.com/v1/documentation/api/latest/guide/quickstart.html>

<https://boto3.amazonaws.com/v1/documentation/api/latest/reference/services/s3.html>