



# AWS Lambda



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A compute service where you *don't* have to think about:

- Servers
- Being over/under capacity
- Deployments
- Scaling and fault tolerance
- OS or language updates
- Metrics and logging

...but where you can easily

- Bring your own code... even native libraries
- Run code in parallel
- Create backends, event handlers, and data processing systems
- Never pay for idle!

# AWS Lambda – Benefits

1

**SERVERLESS**



2

**EVENT-DRIVEN SCALE**



3

**SUBSECOND BILLING**



# AWS Lambda – Capabilities

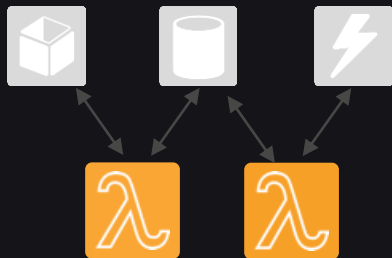
## BRING YOUR OWN CODE



## SIMPLE RESOURCE MODEL



## FLEXIBLE INVOCATION PATHS



## GRANULAR PERMISSIONS CONTROL



# AWS Lambda – How It Works

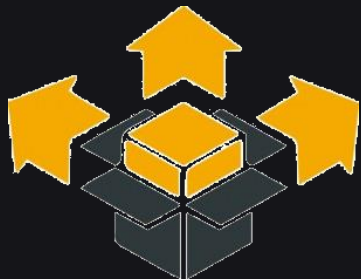
**AUTHORING**



**STATELESS**



**DEPLOYMENT**



**MONITORING & LOGGING**



# AWS Services Integrated with AWS Lambda



Amazon  
S3



Amazon  
DynamoDB



Amazon  
Kinesis



AWS  
CloudFormation



Amazon  
SWF



AWS  
CloudTrail



Amazon  
SES



Amazon  
Cognito



Amazon  
API Gateway



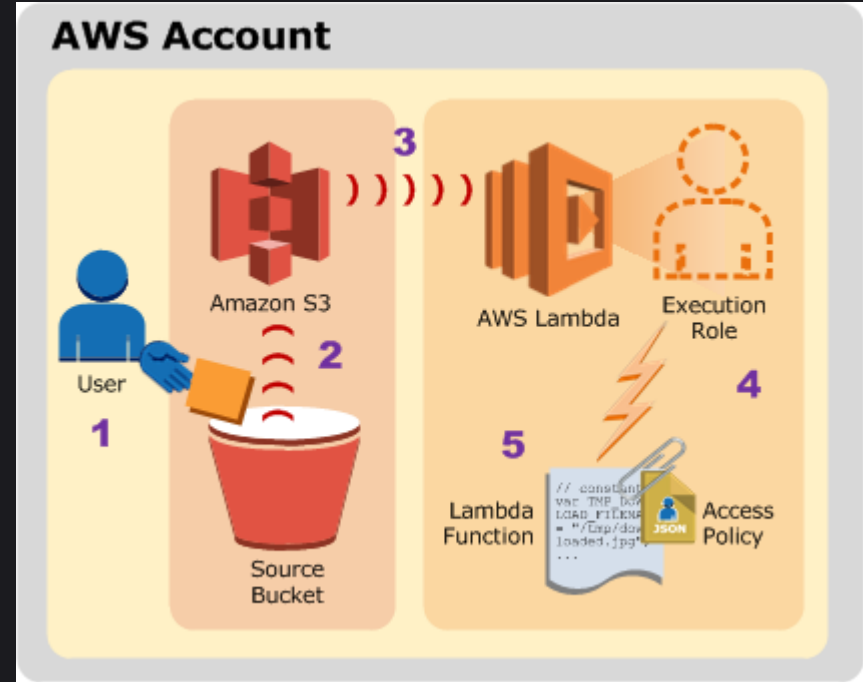
Amazon  
SNS



Amazon  
CloudWatch  
Logs

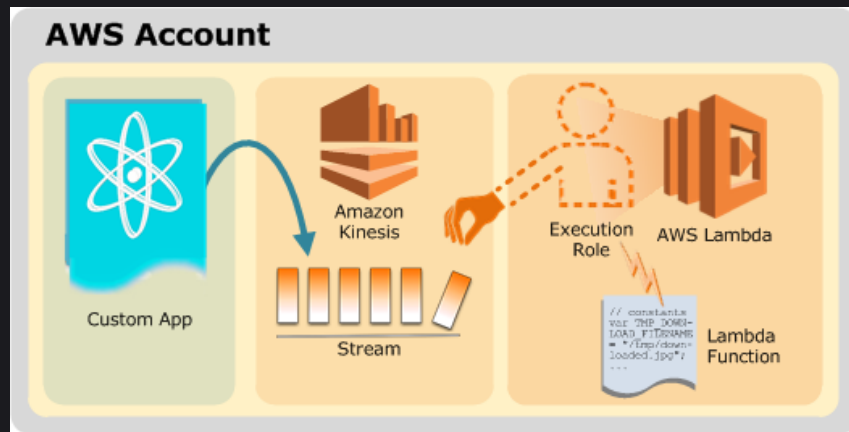
# AWS Lambda – Push Model

- Respond to a specific event
- Services
  - Amazon S3
  - Amazon SNS
  - Amazon Cognito
  - Amazon Echo



# AWS Lambda – Pull Model

- Polls the event source
- Services
  - Amazon Kinesis
  - Amazon DynamoDB Streams





# AWS Lambda – Direct Invocation Model

- Respond to invocation
- Services
  - Custom code
  - Amazon API Gateway

