

Lambda Server Less

Why AWS Lambda



Amazon EC2

- Virtual Servers in the Cloud
- Limited by RAM and CPU
- Continuously running
- Scaling means intervention to add / remove servers



Amazon Lambda

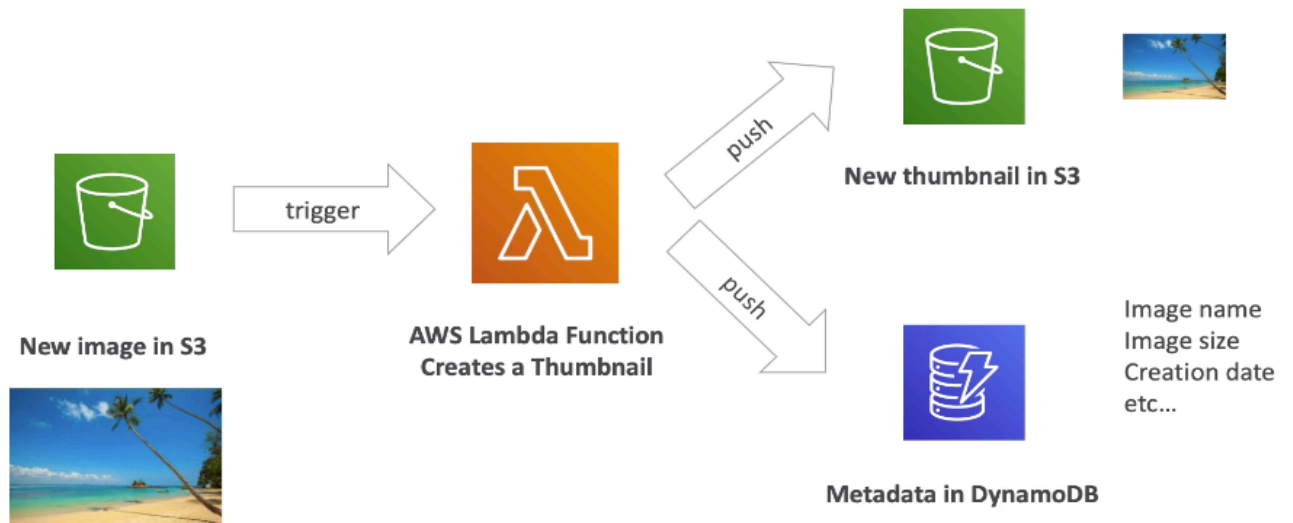
- Virtual functions – no servers to manage!
- Limited by time - short executions
- Run on-demand
- Scaling is automated!

Benefits of AWS Lambda

Easy Pricing:

- Pay per request and compute time
- **Free tier** of **1,000,000** AWS lambda requests and **400,000 GBs** of compute time
- Integrated with the whole AWS suite of services
- Event - Driven: functions get invoke by AWS when needed
- Integrated with many programming languages
- Easy monitoring through AWS CloudWatch
- Easy to get more resources per functions (up to 3GB of Ram!)
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- github.com/pvnaakum7

Example: Serverless Thumbnail creation



Example: Serverless CRON Job



github.com/pvnakum7

AWS Lambda Pricing: example

- You can find overall pricing information here:
<https://aws.amazon.com/lambda/pricing/>
- Pay per calls:
 - First 1,000,000 requests are free
 - \$0.20 per 1 million requests thereafter (\$0.0000002 per request)
- Pay per duration: (in increment of 100ms)
 - 400,000 GB-seconds of compute time per month if FREE
 - == 400,000 seconds if function is 1 GB RAM
 - == 3,200,000 seconds if function is 128 MB RAM
 - After that \$1.00 for 600,000 GB-seconds
- It is usually very cheap to run AWS Lambda so it's very popular

@pvna
@pvnakum7

@pvnakum7

github.com/pvnakum7