

Cloud and DevOps

by Eduard Bargués

Hi! 🙌

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Professor at [BTS](#).

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What about you?

- What is your story?
- Expectations from C&D?



Claudia
Ionescu



Susana
Leiva



Ana
Jishkariani



Dania
Gómez



Vedrana
Kulic



Ranin
Jojas



Georgina
Fornés



Abigail
O'Donoghue



Ghandi
Makarem



Anastasia
Chelpanova



Alessio
Cadeo



Alessandra
Pacheco



Juan Pablo
Aylwin



Erick
Henriquez



Roque
Sáenz



Juliana
Cardona



Deanna
Hassan

What are we doing here?

C&D in the context of
*Digital Product
Management.*



You will (not) learn

-  What the  is (for).
-  Defend your ground against 'techies'.
-  How to be a software/cloud developer.

“**Cuando sepas lo que cuesta, sabrás lo que vale**
Jose Antonio Gili Ripoll, professor at UPC”

Not that many classes 😢

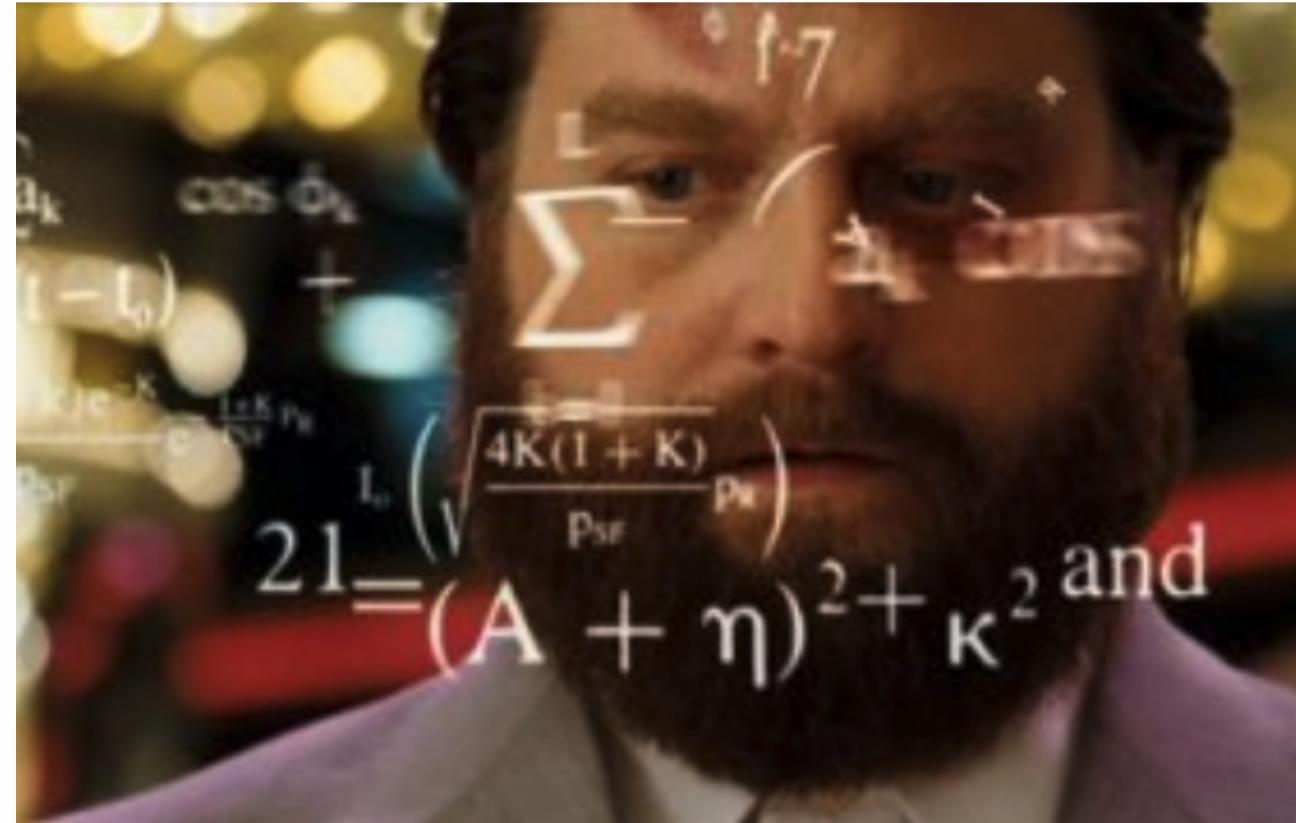
1. Introduction
2. Classic vs Containers vs Serverless
3. Security in the cloud
4. Cost management
5. Introduction to Devops: CICD
6. Advanced Devops
7. Presentations & Guest

Evaluation

project 80%

content 60% + presentation 20%

class engagement 20%



How I reason about things

- **Why?**: Situation at hand.
- **What for?**: Goal.
- **What?**: Thing to do.
- **How?**: Implementation.



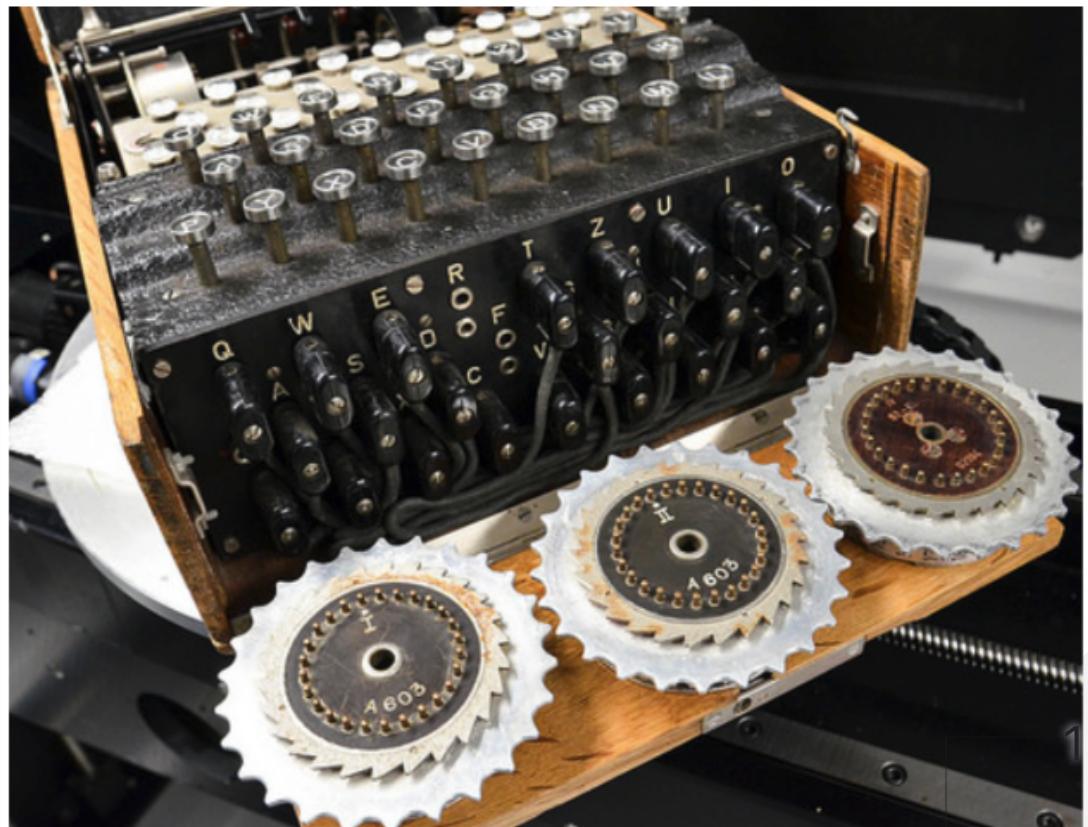
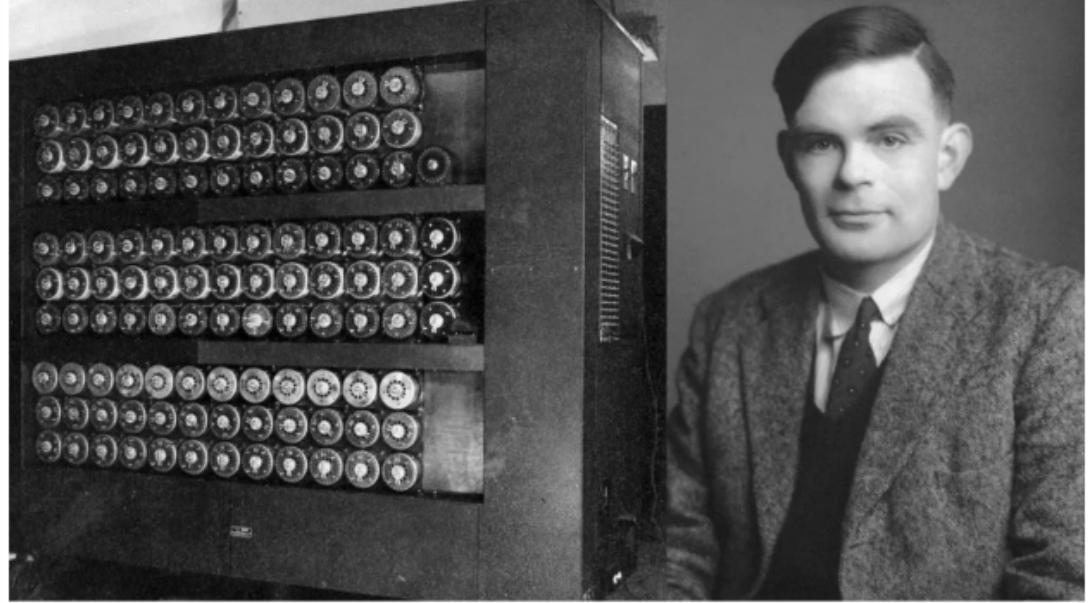
Information Technology

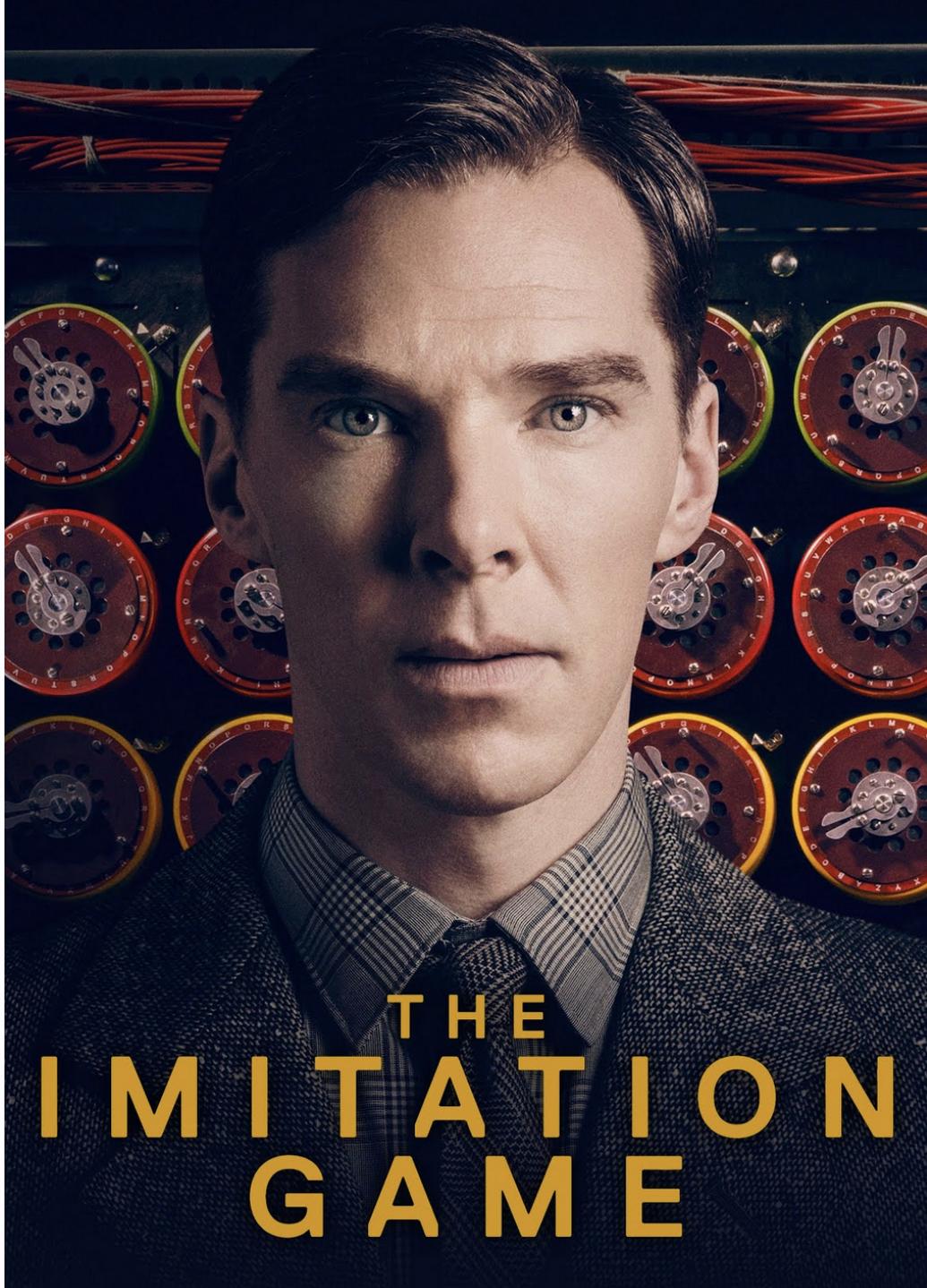
A brief (hands on) story



The first computer

Why did Alan Turing invent it?





THE IMITATION GAME



HIDDEN FIGURES
BASED ON THE UNTOLD TRUE STORY

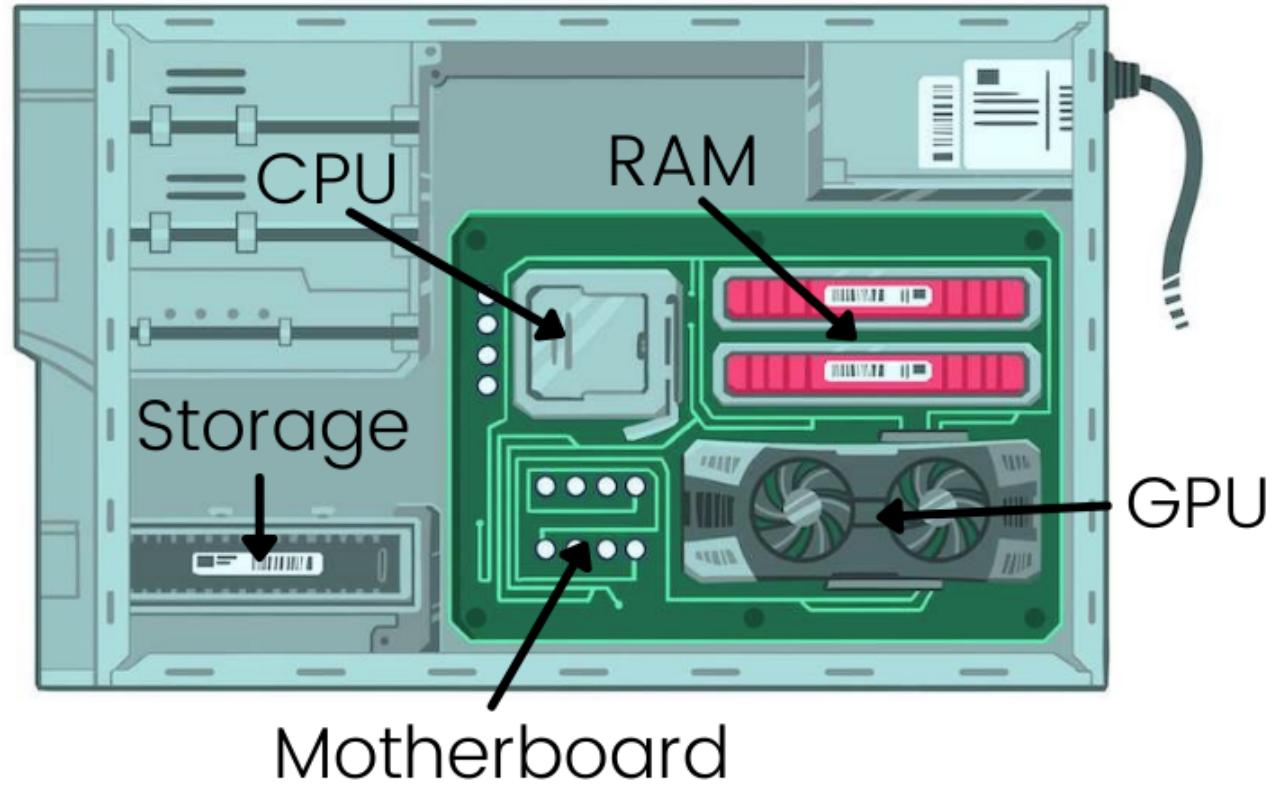
Genius has no race. Strength has no gender.
Courage has no limit.

On-premise world

Bussiness used to run
their own servers.



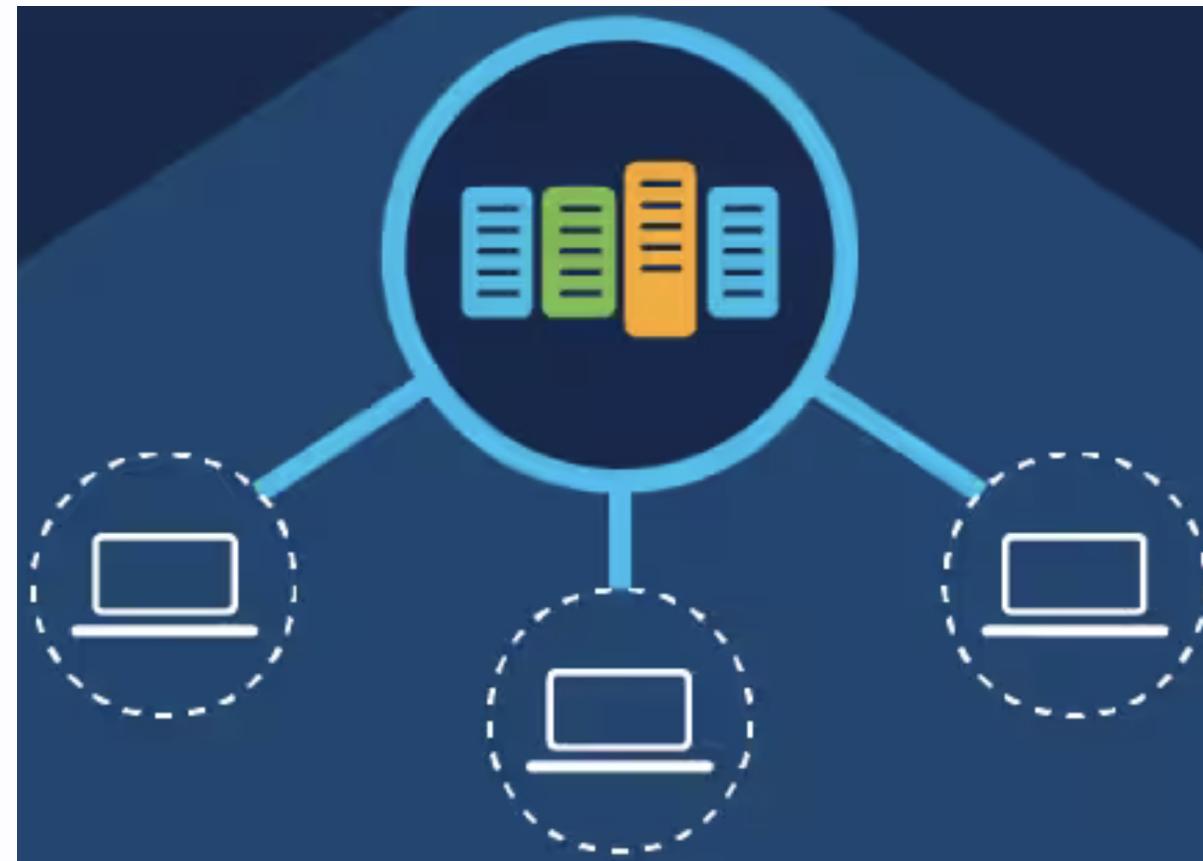
Inside a computer



Virtualization

Why do we need it?

Shared resources,
install what you need
and ready to go 💪!



Docker

Why do we need docker?
How does it work?



The dawn of

Why do we need the ?

How AWS was born with
it's first service.





Use it with caution

“With great power, comes great responsibility.”

Companies look to reduce costs or even leave the Cloud because of high spending.

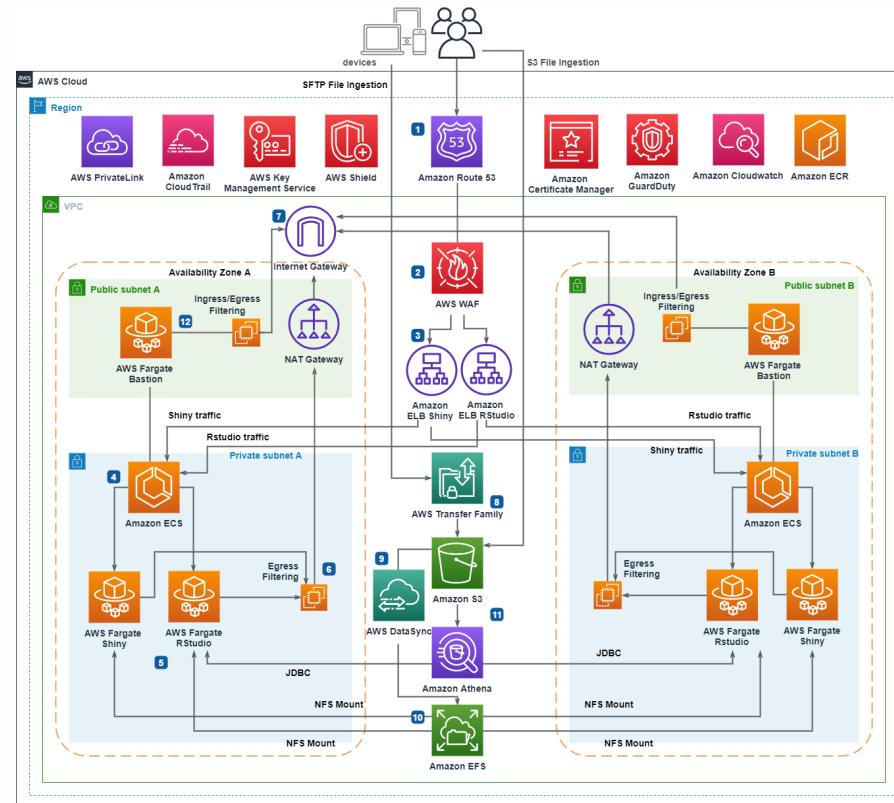


Create an AWS account

- Sign In/Up AWS
- Enable Multi Factor Authentication
- Explore free products in AWS

AWS console

- **Compute:**Lambda, ECS, EC2.
- **Storage:**S3.
- **Database:**RDS, DynamoDB.
- **Networking:**API Gateway, VPC.
- **Management:**CloudWatch, IAM.



Types of

Infrastructure
vs
Platform
vs
Software
(aaS: as a Service)



200+ services!

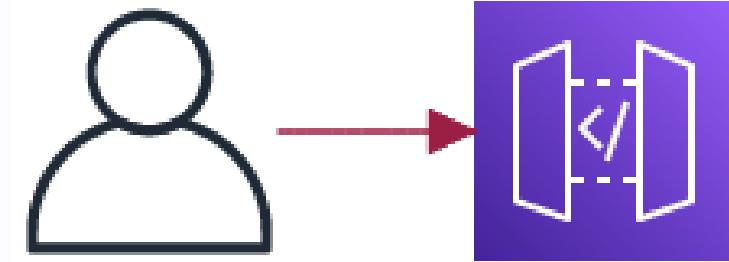
- Instant access.
- Complete flexibility.
- ~~virtually~~ Infinite scalability.

“ You put the limits ”



Our first api in AWS

With Apigateway



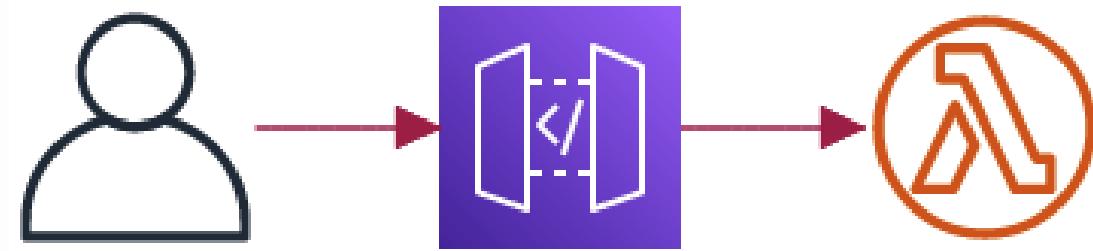
But, wait!



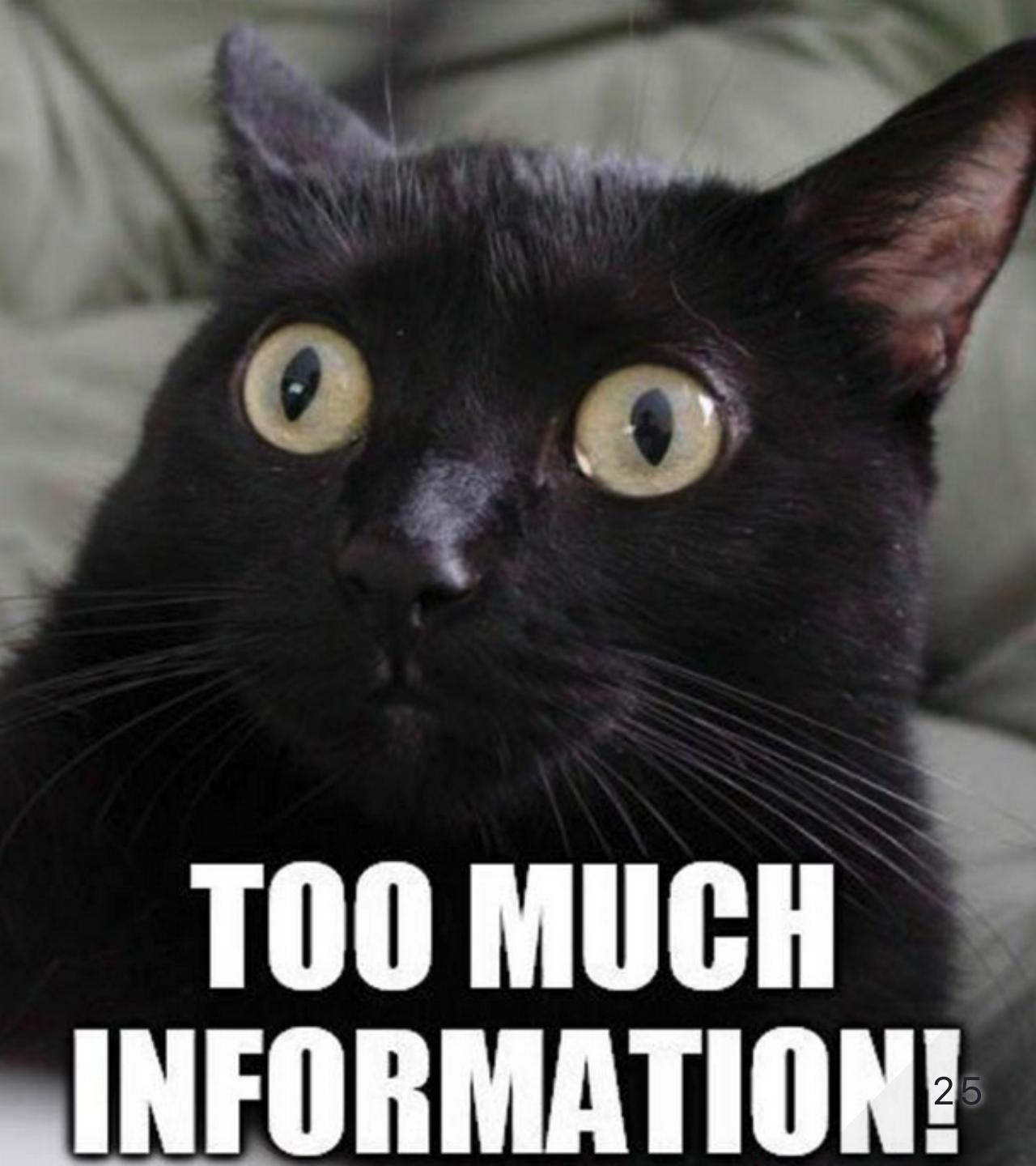
How do urls work?

Is this flexible?

With Lambda it is.



See? that
wasn't that
bad 😊



TOO MUCH
INFORMATION! ²⁵