

LAB



LAMBDA FUNCTIONS

"SERVERLESS"

AWS/AZURE



S3

EVENTS

SATURDAY

L

S3

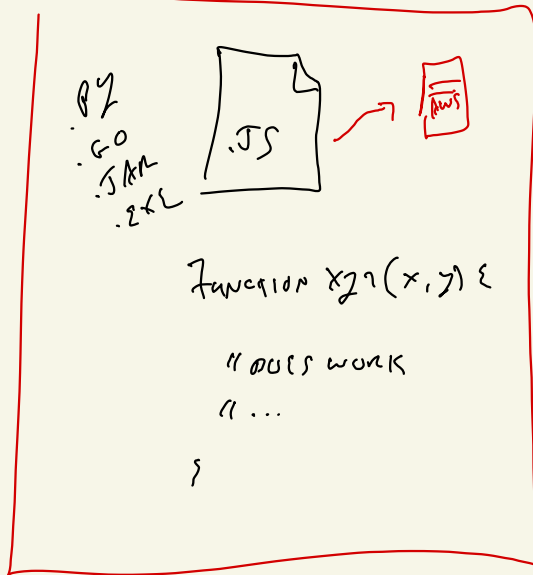
PPH · RAUSEN

OPEN LAB = 3/10 / 9/10 P192  
NFF

\* DSA PRACTICE (1hr)

# 2 SERVERLESS FUNCTION

1 FILE, 1 FC



RUNS "ON DEMAND"

\* LIVES IN A CONTAINER

\* EC2 / INSTANCE

\* DOCKER

LINUX SYSTEM  
VIRTUAL  
FILE  
SYSTEM + ...

{ OPEN  
START OS

FIND FILE

READ FILE

⊗ CLOSE ON EXIT

(INACTIVITY)

- PACKAGE.JSON

on SERVICE

2  
NON START  
JAVAC NAME of FILE  
./GOMAN

# FUNCTIONS

## EVENT RESPONDERS

\* MODULAR

LET BASE = 17

\* FUNCTIONAL

◦ INDEPENDANT / REPEATABLE

- GIVEN  $x$  ALWAYS 2

◦ NO SIDE EFFECTS \*

◦ NO EXTERNAL DEPENDENCIES

Function Add ( $x$ ) {

→ console.log(x);  
return x + base;

→ DB.SAVE(x);

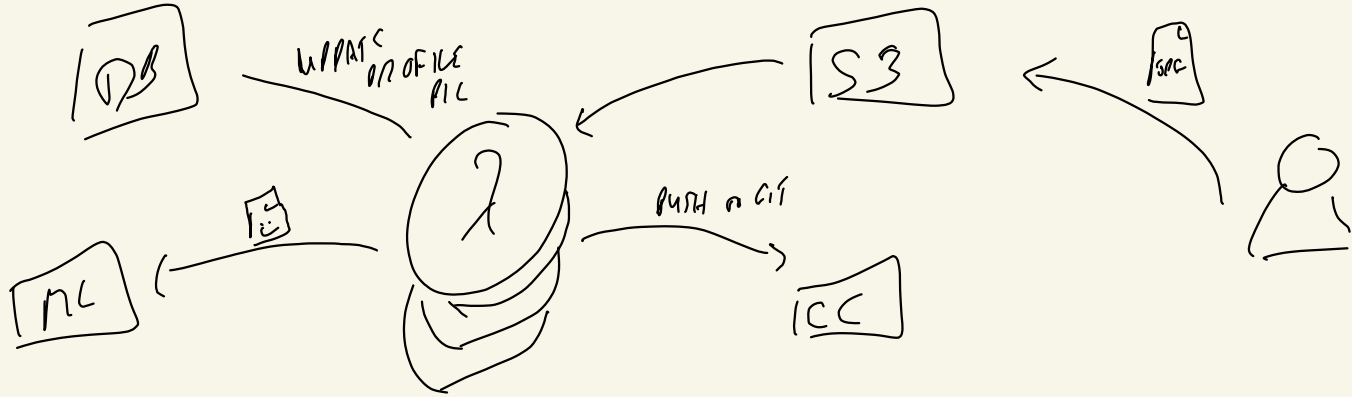
}

\* SRP → DO 1 THING, PERFECTLY!

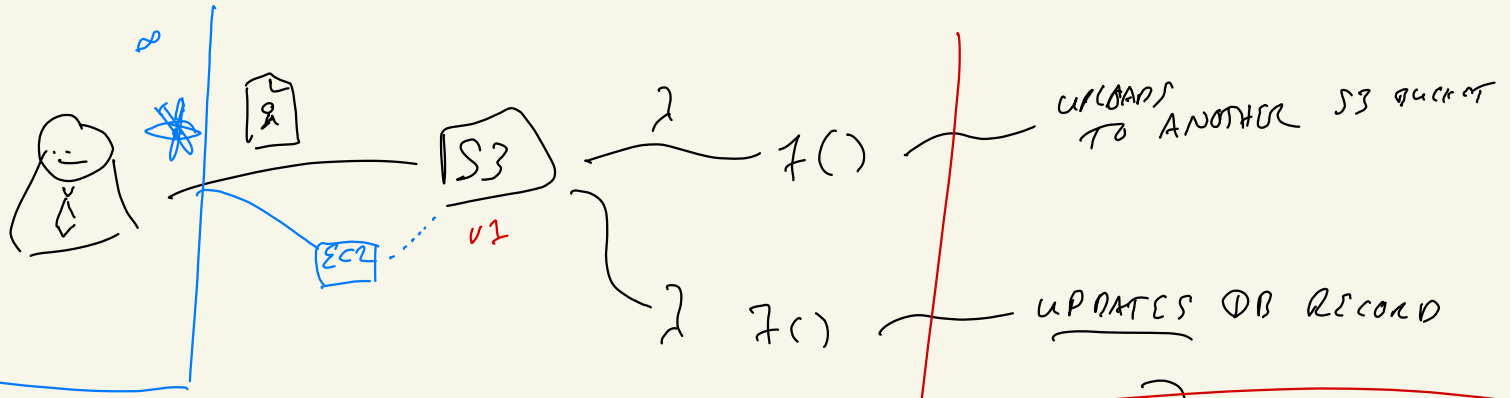
WHY

> 100 AWS SERVICES

WHEN SERVICE X DOES SOMETHING,  
SERVICE Y NEEDS TO REACT







## BAD + SCARY...

- ① VERSIONS + DEPENDENCIES
- ② KICKING THE CAN DOWN THE ROAD
- A ③ INTER-TEAM COMMUNICATION & COORDINATION
- ④ YOU CAN'T KNOW IT ALL
- ⑤ TESTING / DEBUGGING
- ⑥ DEPLOYMENTS

$f()$  -  $f()$  ~~v1~~ v2  
 ↙  
 ML

AWS PRODUCTION ~~→~~ A. LIVE ~~→~~ B. LIVE X

\$ NINES  
99.999 % uptime

15 minutes / year  
downtime!

GM + ZEXUS  
\$10,000 / min

W/PROXY  
STORE

CAT X - CUSTOMERS

STAGE X OPS + BUSINESS

DEV

1000x

LOCAL over TTX back to DEV

