

**THE PLATFORM IS DEAD
LONG LIVE THE PLATFORM**

WHO?

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recovering web developer of 10+ years

architecture, infrastructure & security consultant

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PLATFORM?

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ZERO-DOWNTIME DATACENTER FAILOVERS
(SWITCHING HOSTING PROVIDERS FOR DUMMIES)

OLD STACK

- > ANSIBLE
- > JENKINS
- > HAPROXY
- > NGINX
- > ICINGA

ANSIBLE

JENKINS

HAPROXY

NGINX

ICINGA

AND IT WAS GOOD.

IT LET US GROW

AND SCALE OUT

WE DIDN'T NEED MORE

FOR ABOUT A YEAR

THE REQUEST?

PYTHON 3

GOLANG

BUT...

I LIKED WHAT WE HAD.

NO EXPERTISE WITH KUBERNETES

IT SERVED US WELL

SO WHAT BROKE?

END OF THE ROAD

EACH THING HAD IT'S OWN DEPLOY PIPELINE

THE ANSWER?

CONTAINERS

DEVELOPER AUTONOMY

HOW DO I CONTAINERS?

JENKINS
JENKINS
TRAVIS

HOW DO YOU RUN A CONTAINER ON THE INTERNET TODAY?

ECS

FARGATE

ABOUT KUBERNETES

SO. ECS.
FARGATE.

~~ANSIBLE~~ ANSIBLE CLOUDFORMATION

CLOUDFORMATION CONSOLE

~~GINGA~~ CLOUDWATCH

~~HADDOXY~~
~~HATROXY~~

ELB

ACTUAL IMPLEMENTATION

BASE NETWORKING CF STACK

- > VPC, SUBNETS, GATEWAYS...
 - > DNS ZONE
 - > ELBS (PRIVATE & PUBLIC)
 - > ECS CLUSTER, SECURITY GROUPS..
-
- > DEPLOYED FROM GITHUB, VIA TRAVIS, TO ALL AWS ACCOUNTS

APP CF STACK

- > TASK DEFINITION, SERVICE, CPU/RAM SPEC
- > ELB TARGET GROUP
- > ELB LISTENER RULE
- > LOG GROUP
- > TASK ROLE & POLICIES
- > DNS ENTRIES

EVERYTHING IN ONE REPO

- > APP CODE
- > DOCKERFILE
- > APP CF TEMPLATE
- > TRAVIS FILE

CI/CD FLOW

- > GITHUB PUSH
- > TRAVIS BUILD IMAGE → ECR
- > TRAVIS DEPLOY → RUN CF
- > DIFFERENT BRANCHES = DIFFERENT ENVIRONMENTS (DEV/TEST/PROD)

BENEFITS

ALL CONTEXT & COMPLEXITY ABOUT AN APP IN A SINGLE REPO

NO SELF-MANAGED SINGLE POINT OF FAILURE

TRIVIAL ADDITION OF ENVIRONMENTS

SEE PULL REQUESTS LIVE BEFORE MERGE

TRIVIAL AUTOSCALING

HURDLES

CF EXTREMELY FRAGILE STARTING OUT

**FIRST DEPLOY FAILING →
HAVE TO DELETE TO RETRY**

ELB RULE PRIORITY

BIGGEST HURDLE?

BUILDING LEGACY APPLICATIONS IN DOCKER

QUESTIONS?

THANK YOU!

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