

Deployment - What's next?

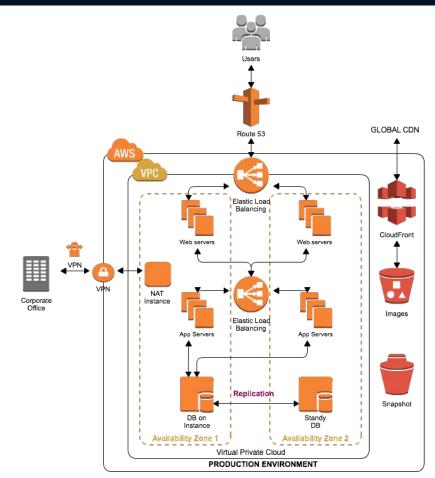
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Growth Session #25 - XXV - June 20-21 2019

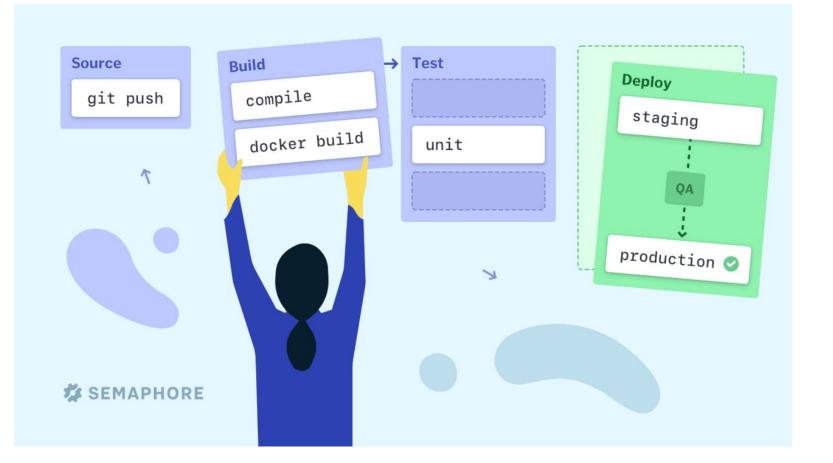
Intro

- Technology keeps moving.
- In just a few years, we've gone from:
 - Servers running on dedicated hardware,
 - Through virtualization,
 - Then cloud computing.
 - And now we've reached the container age.

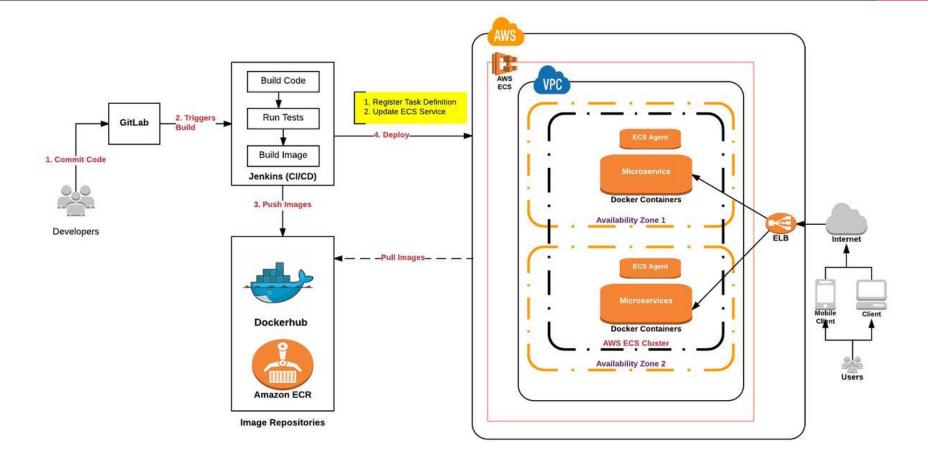
raditional deployment to AWS Cloud





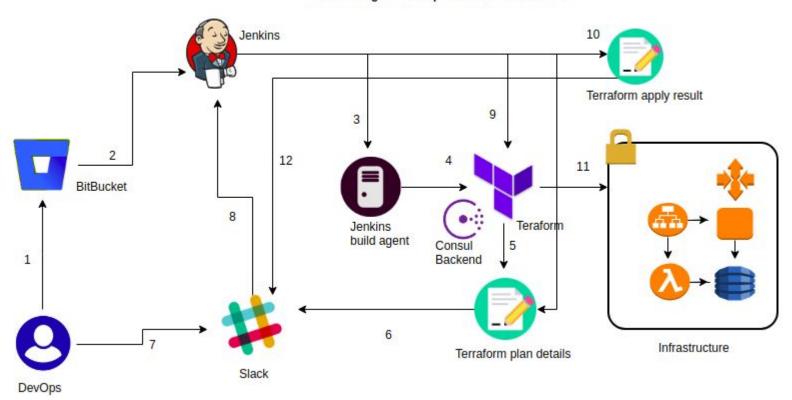


Deploy app containers to AWS - ECS



aC - Infrastructure As Code enters the name

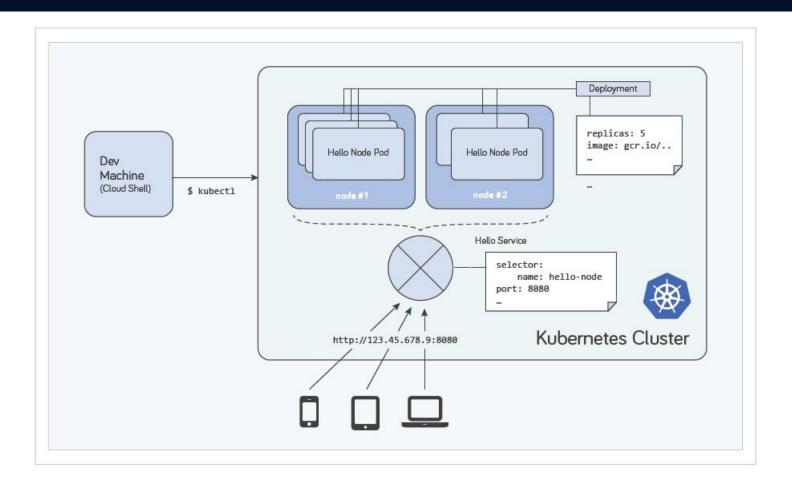
CI/CD using Hashicorp Terraform and Jenkins



Kubernetes enters the game



What is Kubernetes?



A Start In a nutshell

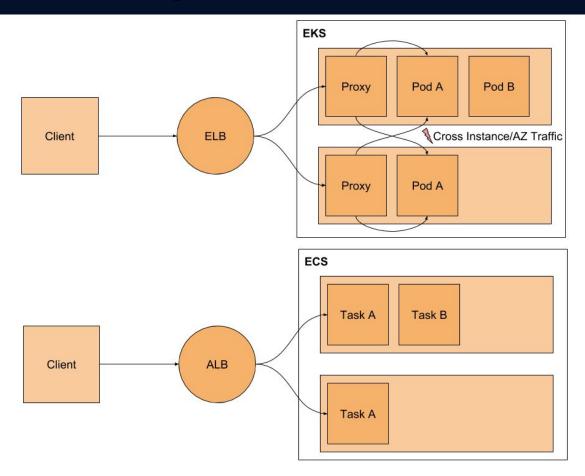
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STEP 1: CREATE A CLUSTER
$ gcloud container clusters create separated-cluster
STEP 2: SPIN UP A DEPLOYMENT FROM GOOGLE CONTAINER REGISTRY.
$ kubectl run app --image gcr.io/google-samples/hello-app:1.0
deployment "app" created
STEP 3: SCALE DEPLOYMENT.
We should scale up the deployment across three pods for redundancy:
$ kubectl scale deployment app --replicas 3
deployment "app" scaled
STEP 4: OPEN PORTS.
Now that the website is deployed, we are ready to open it up to the world:
$ kubectl expose deployment app --port 80 --type=LoadBalancer
service "app" exposed
STEP 5: UPDATE CODEBASE.
Let's imagine that the website has been updated and we need to deploy:
$ kubectl set image deployment app app=gcr.io/google-samples/hello-app:2.0
```

ECS vs K8s



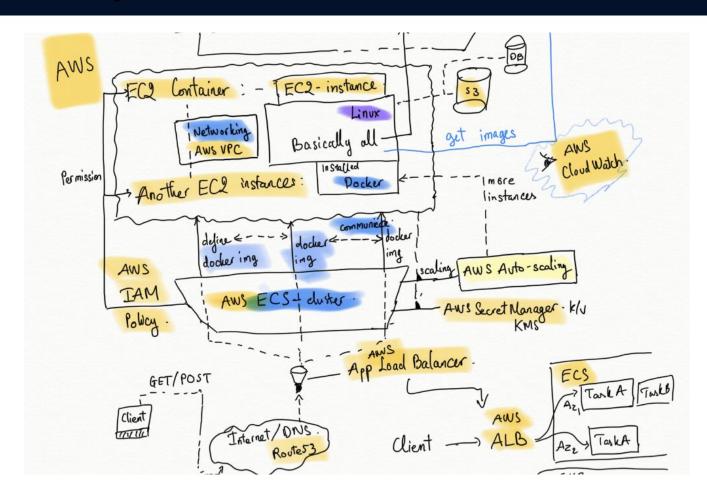
Running on Amazon Web Services (AWS)	Production-ready out of the box, highly integrated with AWS universe.	Building a production-ready cluster on AWS is possible but a lot of work.
Running on Google Cloud Platform (GCP)	Not available.	Production-ready out of the box, highly integrated with GCP universe.
Running on other laaS provider or on-premise	Not available.	Expect significant effort when building a production-ready cluster your own.

EKS enters the game



Docker hub Host Container AWS ECR Offline Containers: redic Registry mage redis Gg cloud Regist app - Doctordb 96 Compose image 100 AWS EC2-instance Container: Linux Networking get images Basically all I more Cloud watch. AWS VPC In Stalled + Another EC2 instances: Per mission Pocker linstances

Progress update



Next Step

Apply?

Devs need to know Ops

Thanks!

Contact Nimble

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