#### Containers on AWS

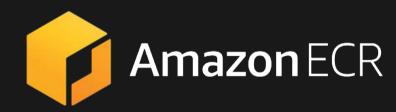


#### AMAZON CONTAINER SERVICES









#### WHY DO WE LOVE CONTAINERS?



Packaging



Distribution



Immutable infrastructure

### OUR JOURNEY





#### BUILDING AN ECOSYSTEM





#### PRODUCTION WORKLOADS ON AWS







AWS VPC networking mode



Advanced task placement



Deep integration with AWS platform



ECS CLI



Global footprint



Powerful scheduling engines



Auto scaling



CloudWatch metrics



Load balancers

# HELPING CUSTOMERS SCALE CONTAINERS



**450+%** growth



Hundreds of millions of containers started each week millions

of container instances



















































































































































































































































Make AWS the BEST PLACE to run containerized applications

#### SERVICE LEVEL AGREEMENT



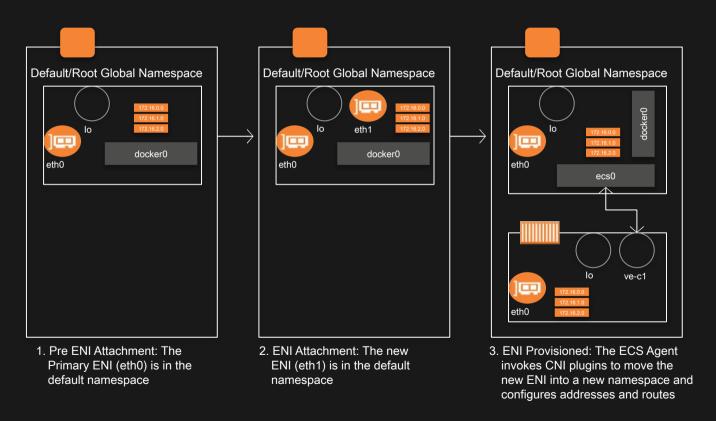
99.9

9

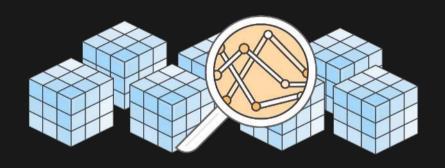
Make tasks a fundamental compute primitive



#### TASK NETWORKING



#### MANAGED SERVICE DISCOVERY



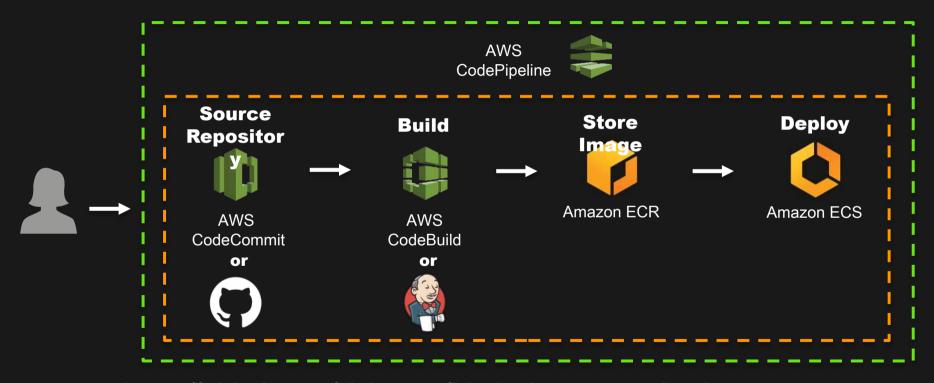
Applications invoked by name

Automatically resolved to IP or port

Native to Amazon ECS services

No infrastructure to manage

#### FULL CD WITH AWS CODEPIPELINE



https://github.com/richarvey/bl\_docker\_to\_production\_ecs

#### WINDOWS CONTAINERS NOW GA







AWS IAM roles for tasks



Global footprint



Advanced task placement

Deep integration

with AWS platform



Powerful scheduling engines



Auto scaling



CloudWatch metrics



ECS CLI



Load balancers

#### CUSTOMERS ARE OUR KEY!



releases since 2015



## CHANGING COMPUTE CONSUMPTION MODEL









No instances to manage

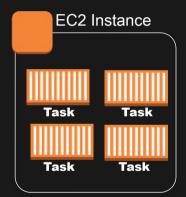
Task native API

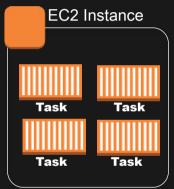
Resource based pricing

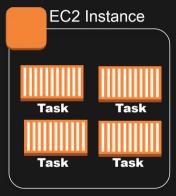
Simple, easy to use, powerful – and new consumption model

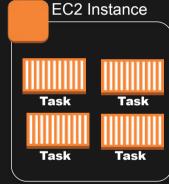


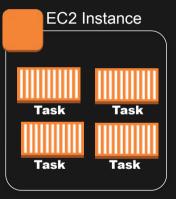
#### RUNNING CONTAINERS

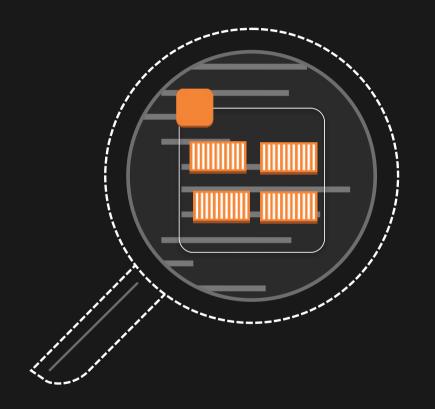


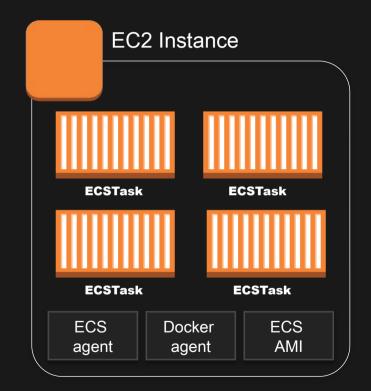


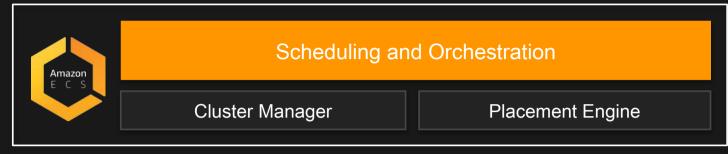


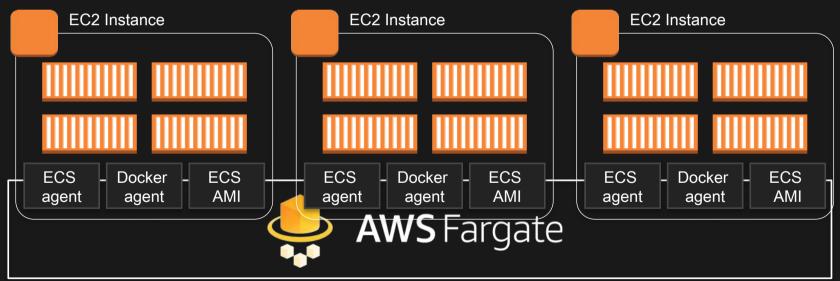


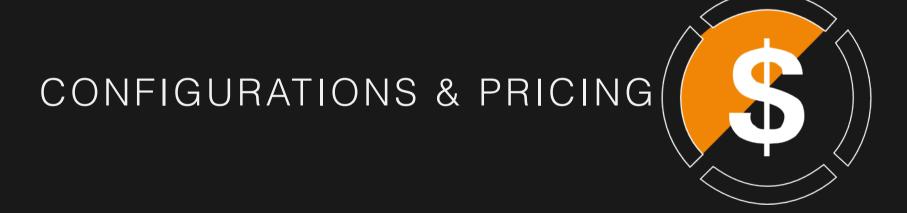












#### TASK CPU & MEMORY CONFIGURATIONS



Flexible configuration options – **50** CPU/memory configurations

CPU	Memory
256 (.25 vCPU)	512MB*, 1GB, 2GB
512 (.5 vCPU)	1GB to 4GB (1GB increments)
1024 (1 vCPU)	2GB to 8GB (1GB increments)
<b>2048 (2 vCPU)</b>	4GB to 16GB (1GB increments)
4096 (4 vCPU)	8GB to 30GB (1GB increments)

#### **AVAILABLE NOW!**







#### **Broad range of customers**

### shippable











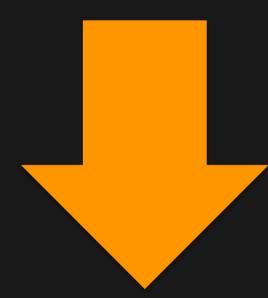


By taking advantage of Amazon ECS, we have the power to understand, manipulate, and manage our environment

easily."

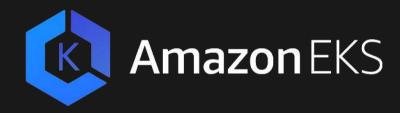
Zaven Boni

DevOps Engineering Lead, GoPro



# 70%

Reduction in Compute Footprint



## ELASTIC CONTAINER SERVICE FOR KUBERNETES (EKS)

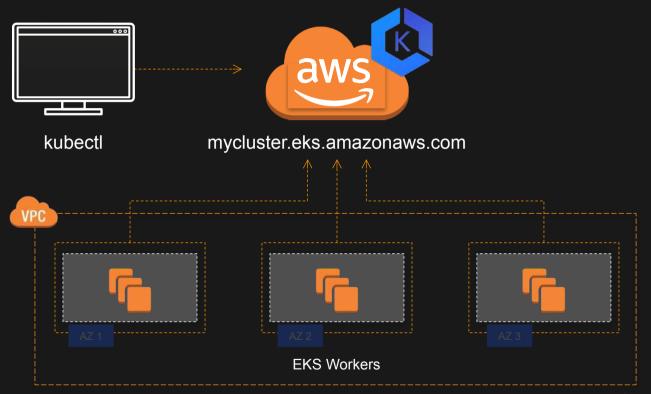


57%

of Kubernetes workloads run on AWS today

— Cloud Native Computing Foundation

#### **Amazon EKS**



Your AWS account

#### **EKS** is Kubernetes Certified





Roadmap: Can I use Fargate with EKS?

#### Recap/Highlights

- Lots of options to run containers in AWS
- Task Level Networking extends VPC's into containers
- 99.99 SLA
- Service Discovery
- Full CodePipeline integration
- Production ready and used by Customers Today!



# Demo



## THANK YOU

https://aws.amazon.com/containers

Ric Harvey

@ric\_harvey