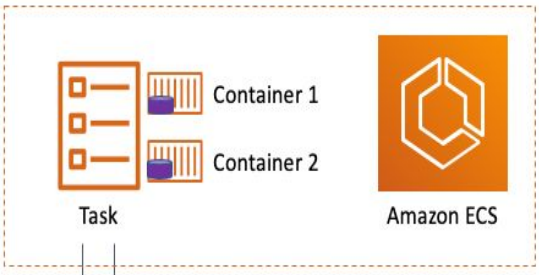
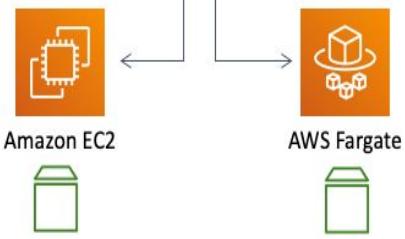
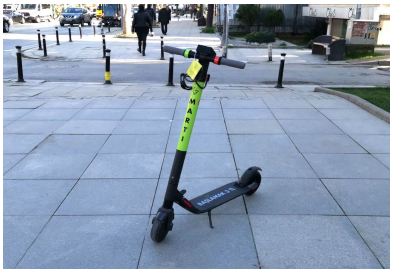




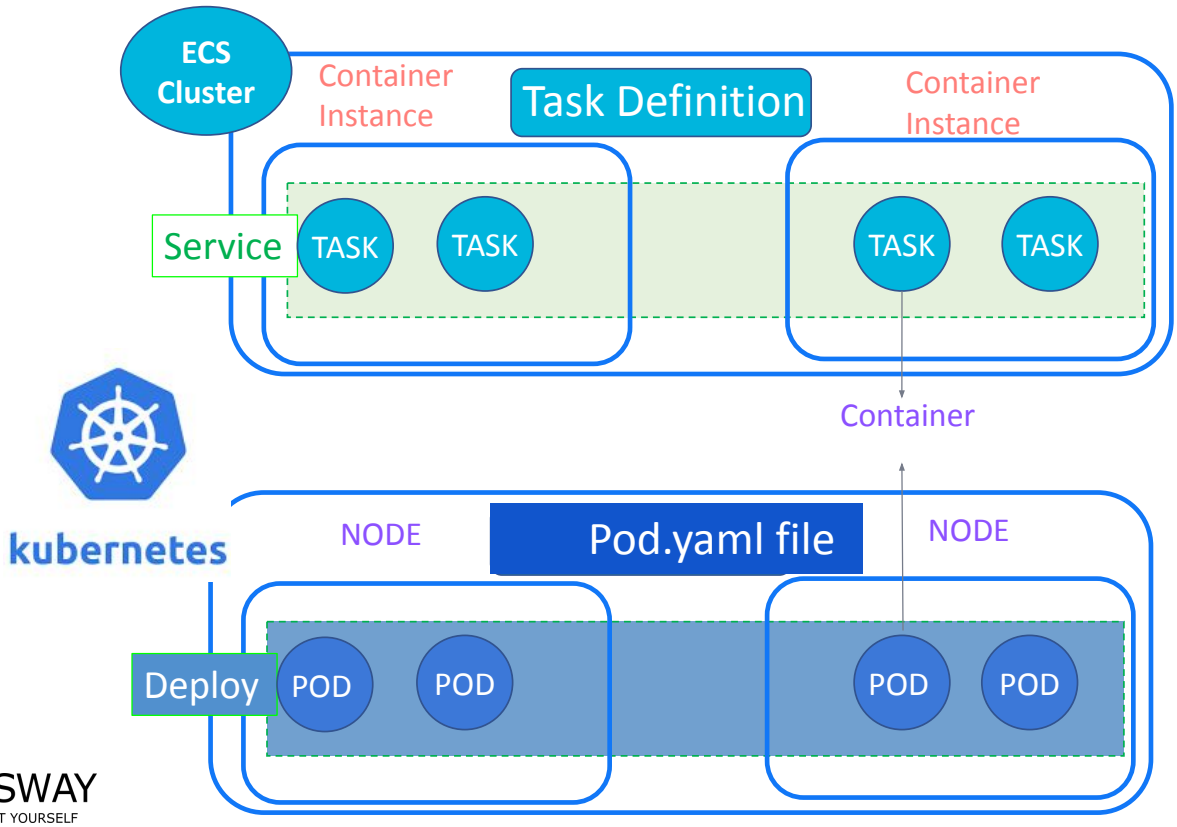
Lambda



EC2 - your own car

Fargate

ECS vs Kubernetes



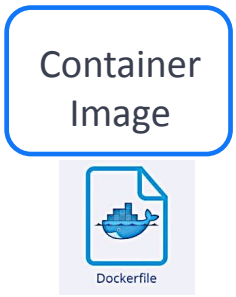
Prerequisites

1. Docker Instance
   a. AWS Configure
      >>>> ECR Login
      >>>> ECS with CLI
      >>>> ECS with AWS CoPilot
   b. Uploading Docker Files - Drag and Drop

2. ECR Private Repo

3. ECS Cluster

Hands-on Steps >>> Where are we now?



Build and Push

/home/ec2-user/clarusshop

ECR

Repositories

.....:latest
.....:v1
.....:v2
.....
.....
clarusshop

1 Docker File

BUILD

2 Docker Image

3 TAG Latest

4 PUSH

5 Latest

Deploy

Run Task

Create Service

kubectl run osvaldo - -image=nginx

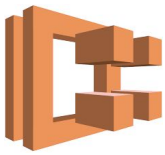
kubectl create deployment osvaldo –image=nginx

\+ ELB

kubectl expose pod/deployment osvaldo –name=servicename –target-port=80 –port=80 type=Nodeport

kubernetes

ECS with AWS CLI



Create ECS Cluster

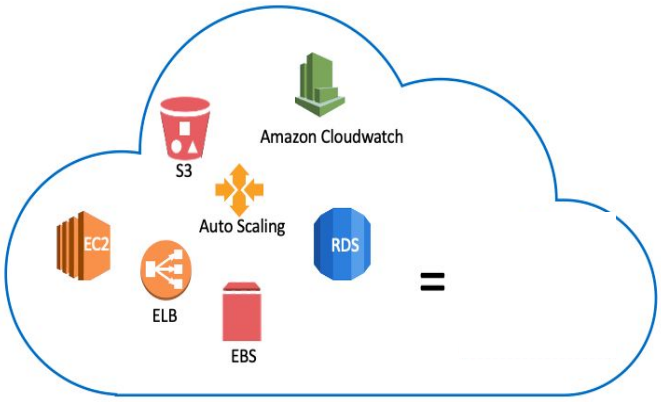
Create Tsk Def. via **cli-input-json file**

Service

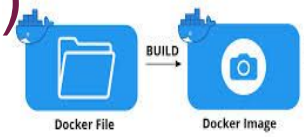
ClusterIp

```
{
        "family": "clarusshop-task-awscli",
        "networkMode": "awsvpc",
        "containerDefinitions": [{
                "name": "clarusshop-app",
                "image": "046402772087.dkr.ecr.us-east-1.amazonaws.com/clarusshop:
                "portMappings": [{
                        "containerPort": 80,
                        "protocol": "tcp"
                }],
                "essential": true
        }],
        "requiresCompatibilities": [
                "FARGATE"
        ],
        "cpu": "256",
        "memory": "512",
      "executionRoleArn": "arn:aws:iam::<account id>:role/ecsTaskExecutionRole"
}
```


ECS with AWS Copilot (Like EB)



ECS with AWS Copilot (Like EB)



Create image with Dockerfile

Create ECR repo and Push the image

Create ECS Cluster and Tsk Def.

Expose service with ALB

Create a log group

CloudFormation

Amazon CloudWatch

CLARUSWAY
WAY TO REINVENT YOURSELF

Amazon ECS

ECS vs EKS

	ECS	EKS
Simplicity /Flexibility	Simple	Flexible
Pricing	Free of charge	$0.10 per hour for using EKS service $72 per month for every cluster
Security	Deeply integrated with IAM	Requires add-ons to enable IAM functionality
Portability	Only available in AWS env.	You can run clusters in any other Kubernetes environment even on-premises
Networking (ENI)	ECS lets you run up to 120 tasks per EC2 instance.	EKS lets you run up to 750 pods per instance

CLARUSWAY
WAY TO REINVENT YOURSELF