

## **Container Orchestration on AWS**



## **Amazon EKS**

Create Kubernetes clusters (powered by Amazon EKS Distro)

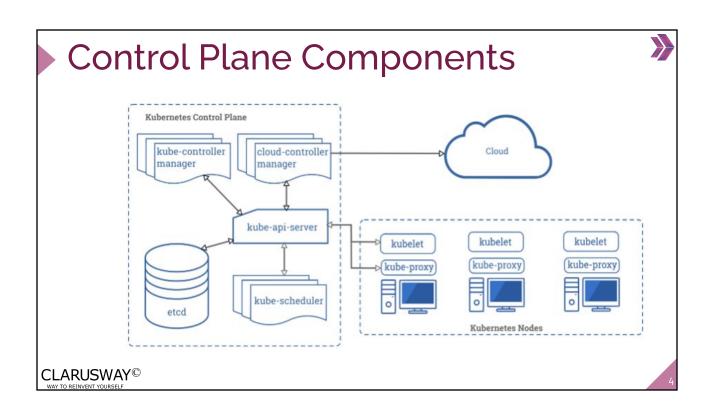
Amazon EKS is a managed service that makes it easy for you to use Kubernetes on AWS without needing to install and operate your own Kubernetes control plane.

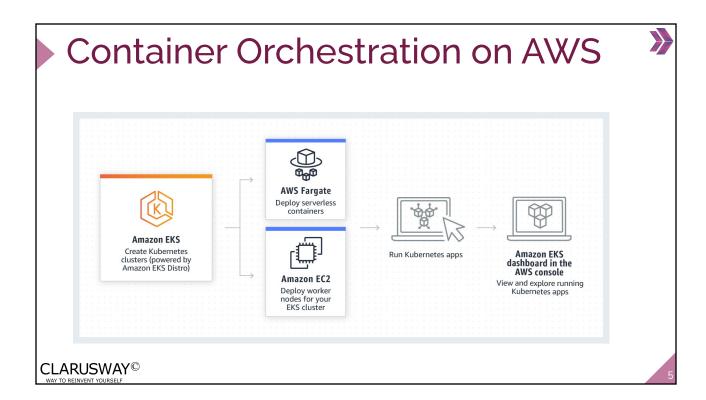


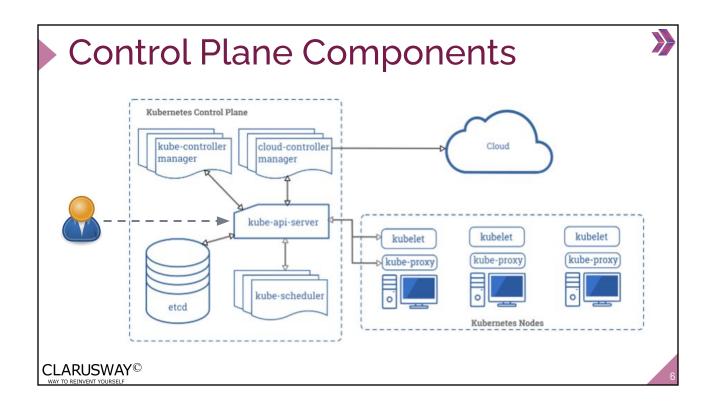
Amazon ECS is a fully managed container orchestration service that makes it easy for you to deploy, manage, and scale containerized applications.

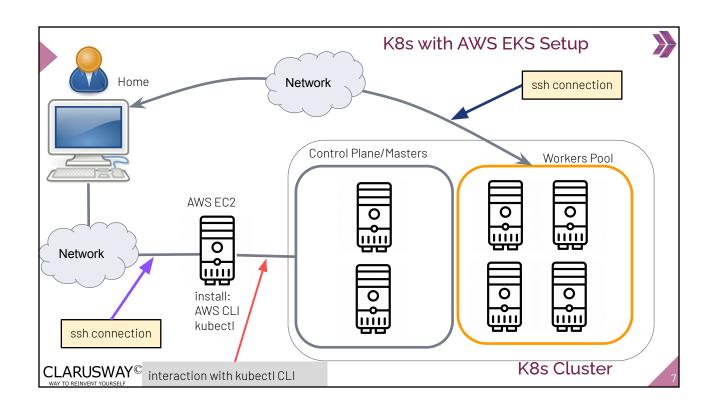


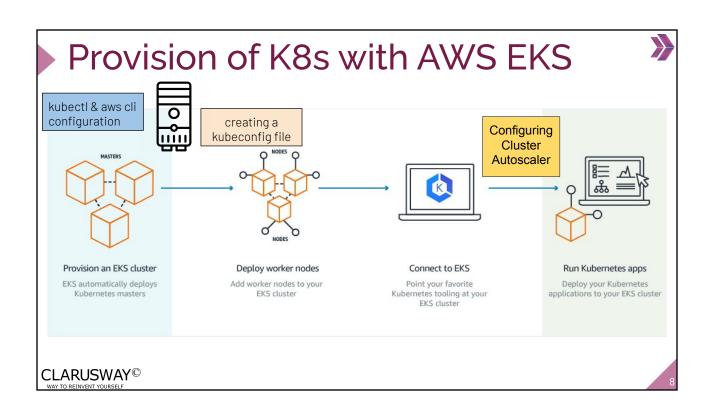
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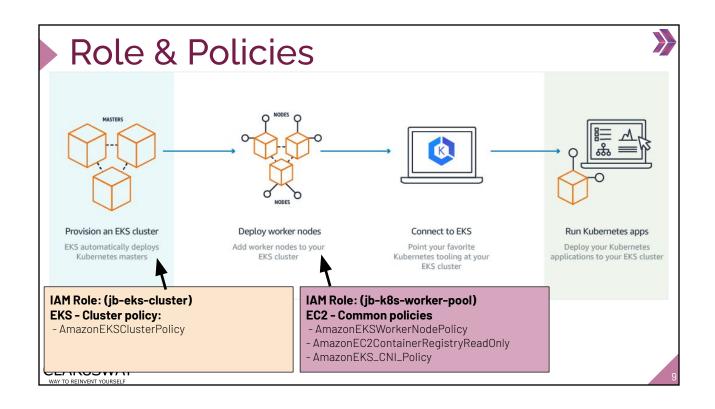


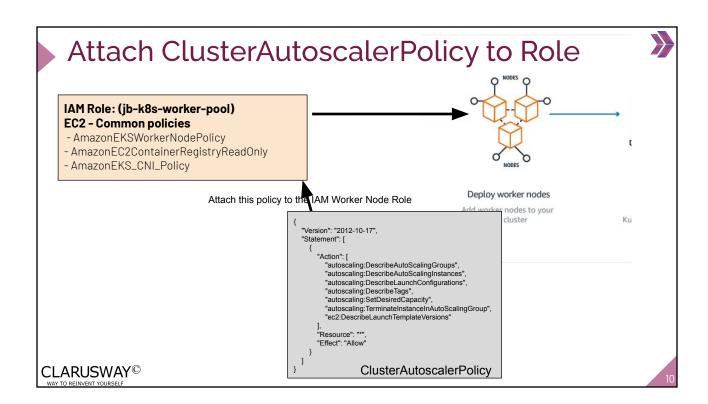






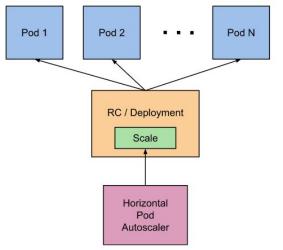






## HorizontalPodAutoscaler





```
apiVersion: autoscaling/v1
kind: HorizontalPodAutoscaler
metadata:
  name: php-apache
spec:
  scaleTargetRef:
   apiVersion: apps/v1
   kind: Deployment
   name: php-apache
  minReplicas: 2
  maxReplicas: 10
  targetCPUUtilizationPercentage:
```

HorizontalPodAutoscaler controls the scale of a Deployment and its ReplicaSet.



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## Cluster Autoscaler



Cluster Autoscaler is a tool that automatically adjusts the size of the Kubernetes cluster when one of the following conditions is true:

- there are pods that failed to run in the cluster due to insufficient resources.
- there are nodes in the cluster that have been underutilized for an extended period of time and their pods can be placed on other existing nodes.



