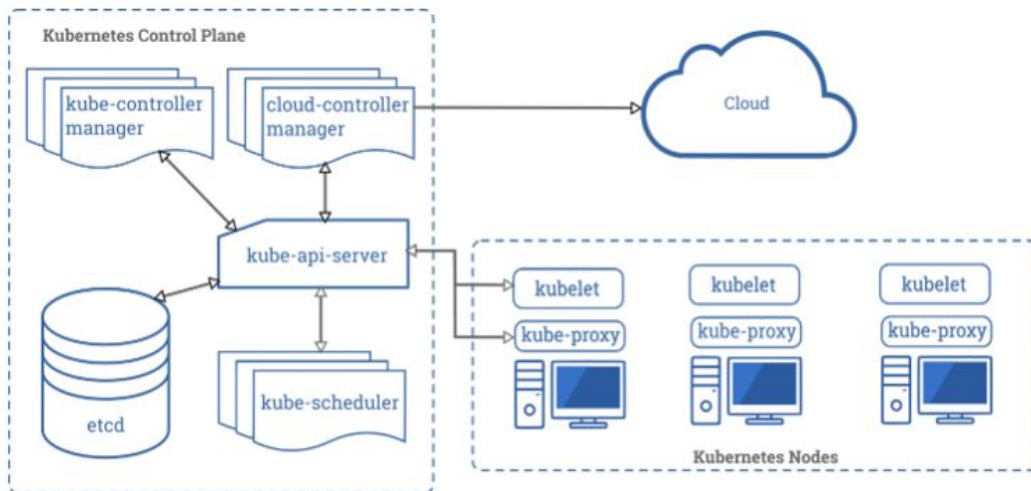
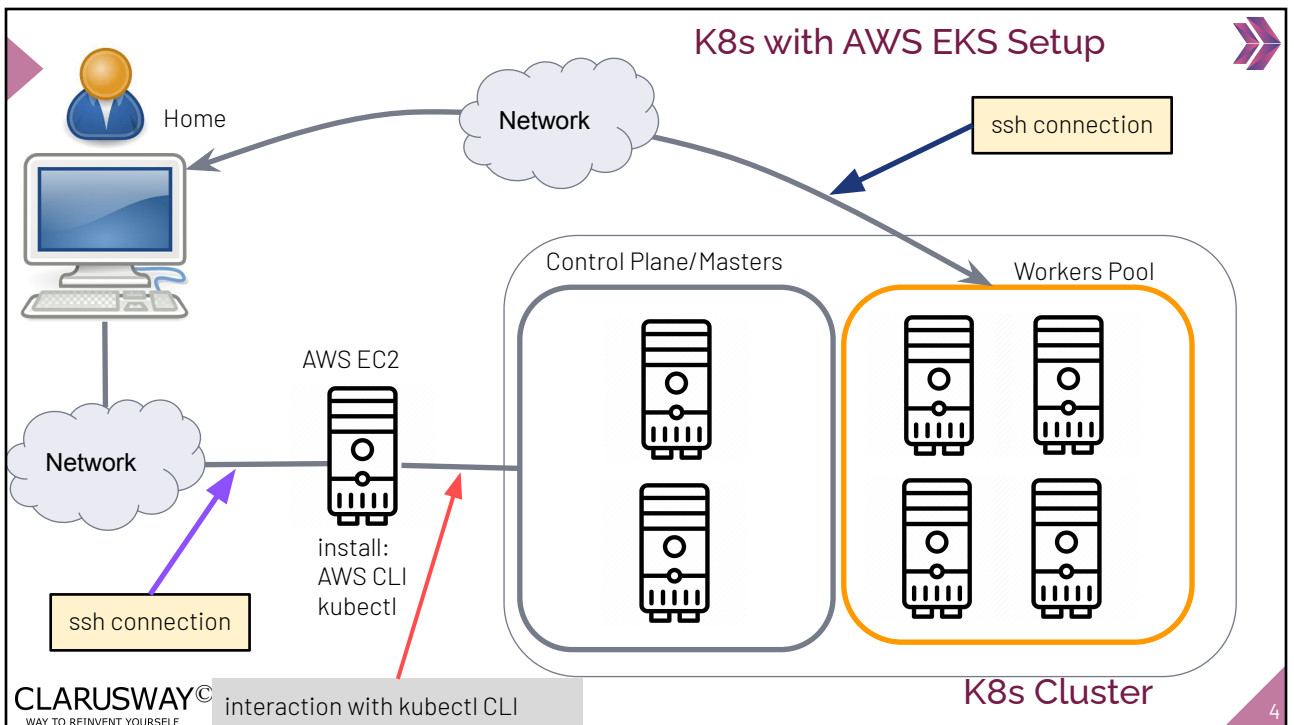
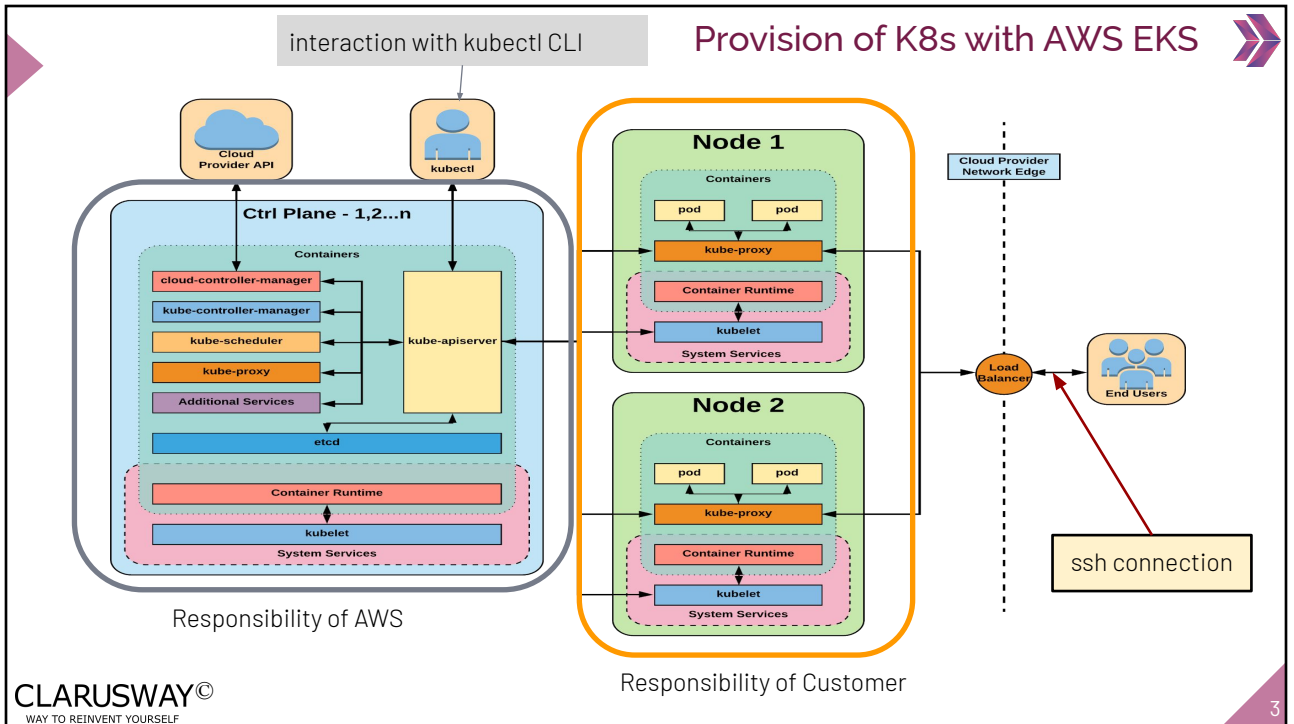


Managing Kubernetes Cluster with AWS EKS



Control Plane Components







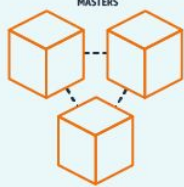
Provision of K8s with AWS EKS

kubectl & aws cli
configuration

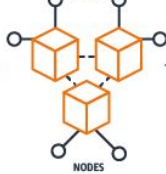


creating a
kubeconfig file

Configuring
Cluster
Autoscaler



Provision an EKS cluster
EKS automatically deploys
Kubernetes masters



Deploy worker nodes
Add worker nodes to your
EKS cluster



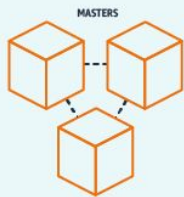
Connect to EKS
Point your favorite
Kubernetes tooling at your
EKS cluster



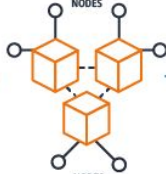
Run Kubernetes apps
Deploy your Kubernetes
applications to your EKS cluster



Role & Policies



Provision an EKS cluster
EKS automatically deploys
Kubernetes masters



Deploy worker nodes
Add worker nodes to your
EKS cluster



Connect to EKS
Point your favorite
Kubernetes tooling at your
EKS cluster



Run Kubernetes apps
Deploy your Kubernetes
applications to your EKS cluster

IAM Role: (jb-eks-cluster)
EKS - Cluster policy:
- AmazonEKSClusterPolicy

IAM Role: (jb-k8s-worker-pool)
EC2 - Common policies
- AmazonEKSWorkerNodePolicy
- AmazonEC2ContainerRegistryReadOnly
- AmazonEKS_CNI_Policy



Attach ClusterAutoscalerPolicy to Role

IAM Role: (jb-k8s-worker-pool)

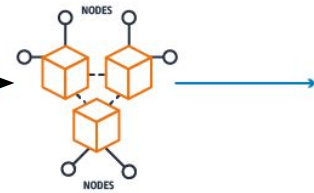
EC2 - Common policies

- AmazonEKSWorkerNodePolicy
- AmazonEC2ContainerRegistryReadOnly
- AmazonEKS_CNI_Policy

Attach this policy to the IAM Worker Node Role

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": [
        "autoscaling:DescribeAutoScalingGroups",
        "autoscaling:DescribeAutoScalingInstances",
        "autoscaling:DescribeLaunchConfigurations",
        "autoscaling:DescribeTags",
        "autoscaling:SetDesiredCapacity",
        "autoscaling:TerminateInstanceInAutoScalingGroup",
        "ec2:DescribeLaunchTemplateVersions"
      ],
      "Resource": "*",
      "Effect": "Allow"
    }
  ]
}
```

ClusterAutoscalerPolicy



Deploy worker nodes

Add worker nodes to your cluster

Ku



THANKS!

Any questions?

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