



BATCH : B85 AWS-DevOps  
LESSON : **Kubernetes**  
DATE : 18.11.2022  
SUBJECT : **AWS EKS - 1**

ZOOM GİRİŞLERİNİZİ LÜTFEN **LMS** SİSTEMİ ÜZERİNDEN YAPINIZ





# **AWS-EKS**

## **Elastic Kubernetes Service**



**EKS**

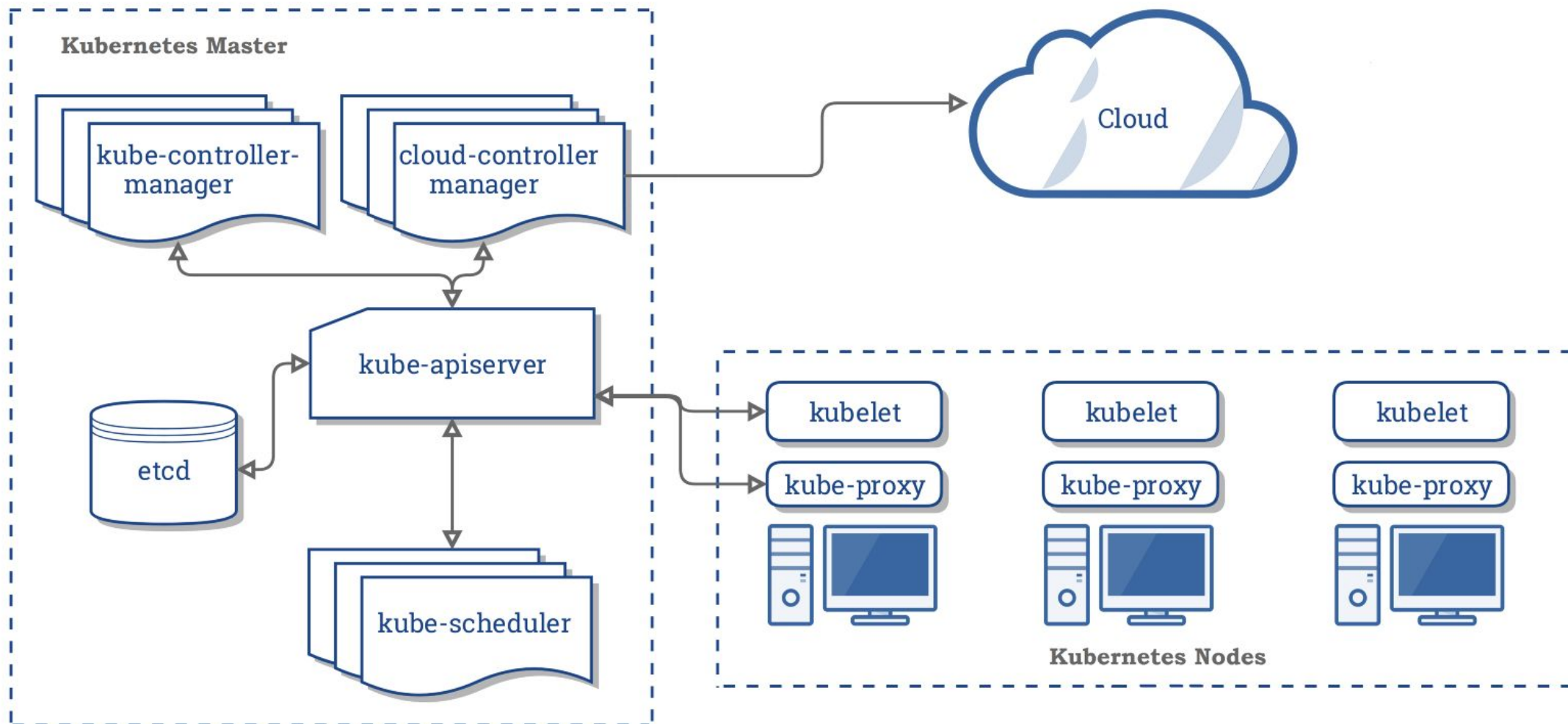
**AWS EKS**

**Elastic Kubernetes Service**

**Setup**



# EKS





# EKS

## AWS EKS

## Elastic Kubernetes Service

- **Highly Available**
- **Managed by AWS**
- **0.10 USD per hour**



**EKS**

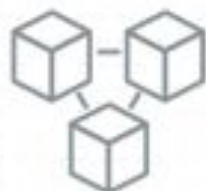
# AWS EKS Control Plane Architecture

- Amazon EKS runs a single tenant Kubernetes control plane for each cluster.
- The control plane consists of at least two API server instances and three etcd instances that run across three Availability Zones within an AWS Region.
- Actively monitors the load on control plane instances and automatically scales them to ensure high performance.
- Automatically detects and replaces unhealthy control plane instances, restarting them across the Availability Zones within the AWS Region as needed.
- Leverages the architecture of AWS Regions in order to maintain high availability.



Amazon  
EC2

Kubectl & aws cli  
configuration



Provision an  
EKS cluster



Connect to EKS

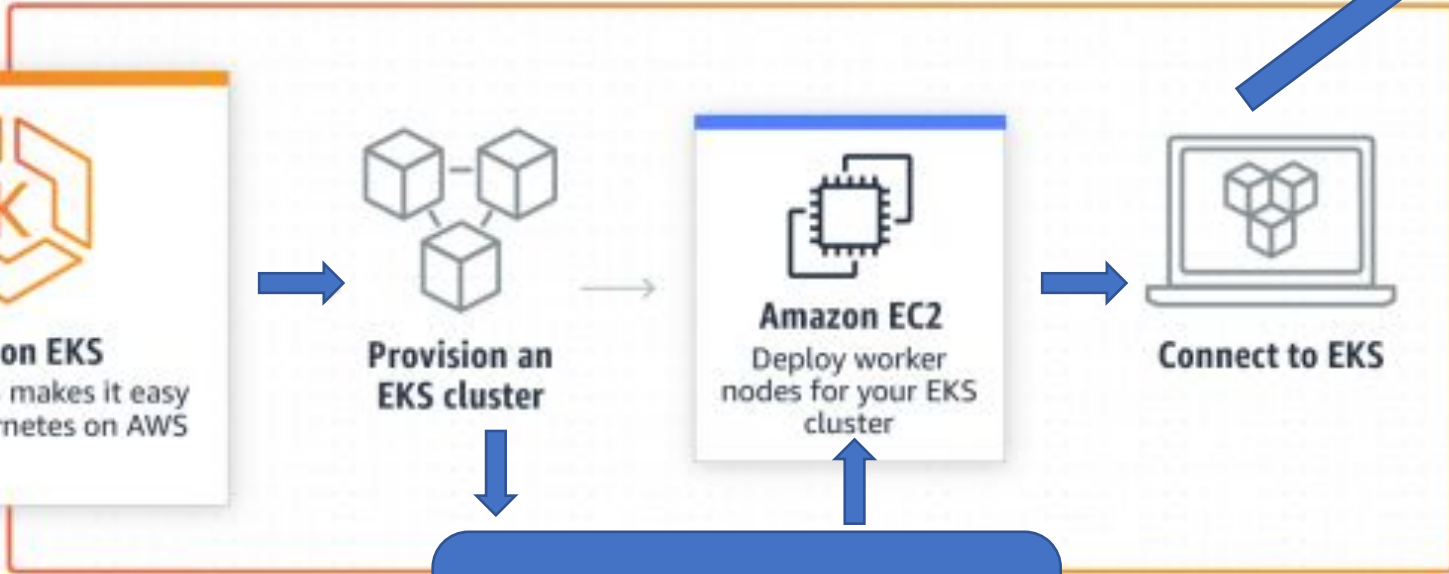


Run Kubernetes apps

Configuring  
Cluster  
Autoscaler



Creating a kubeconfig file





# EKS

## AWS EKS Setup

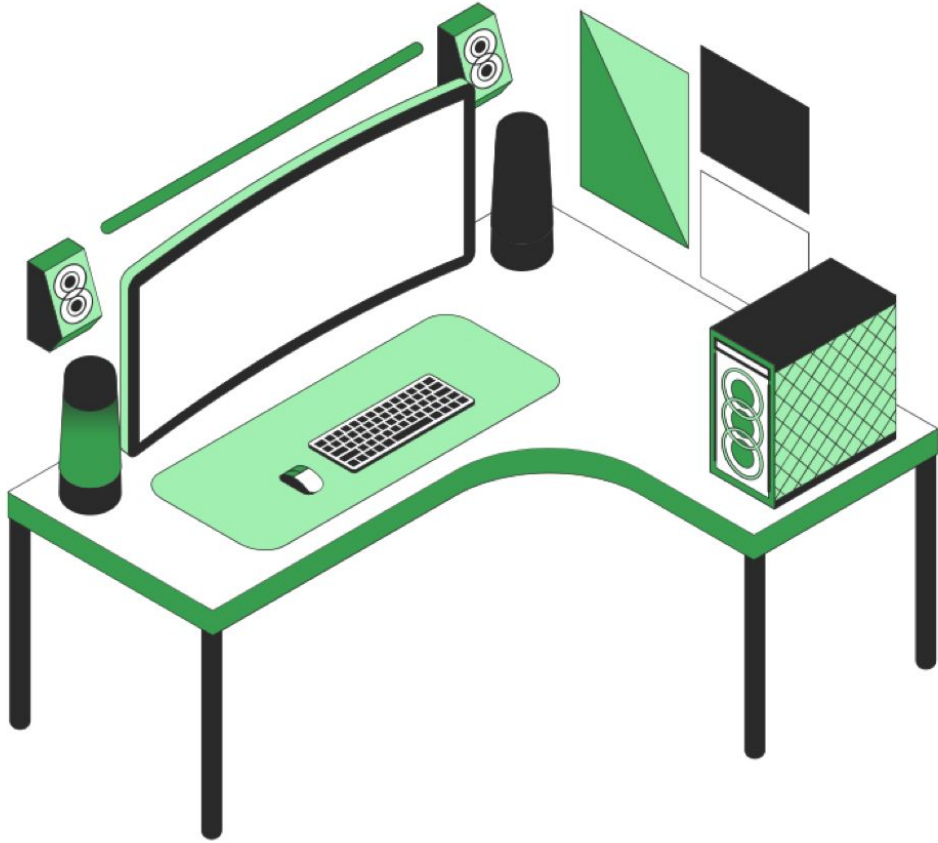
### Prerequisites

- AWS CLI
- kubectl
- IAM Permissions

### Best Practice

- Use a dedicated VPC





Do you  
have any  
questions?

Send it to us! We hope you learned  
something new.