Reference:

FAQs

Category:

Containers

Amazon Elastic Kubernetes Service (Amazon EKS)

What?

- Amazon Elastic Kubernetes Service (Amazon EKS) is a managed service that makes it easy for you to run Kubernetes on AWS without installing and operating your own Kubernetes control plane or worker nodes.
- Kubernetes is an open-source container orchestration system allowing you to deploy and manage containerized applications.

Why?

- Amazon EKS provisions and scales the Kubernetes control plane, including the API servers and backend persistence layer. It automatically detects and replaces unhealthy control plane nodes and patches the control plane.
- Amazon EKS is integrated with many AWS services to provide scalability and security for your applications.

When?

- You don't want the operational burden of managing the Kubernetes control plane.
- You want to maintain existing applications that run on upstream Kubernetes and want to use plugins and tooling from the Kubernetes community.

Where?

- Amazon EKS is a regional service.
- It runs and scales the Kubernetes control plane across multiple AWS Availability Zones to ensure high availability.

Who?

- Amazon EKS handles provisioning, scaling, and managing the Kubernetes control plane. It provides automated version upgrades and patching for control plane nodes.
- Customers provision an EKS cluster, deploy compute nodes, connect to EKS, and run Kubernetes applications.

How?

- You can get started by creating an Amazon EKS cluster. When your cluster is ready, you can configure your favorite Kubernetes tools, such as *kubectl*, to communicate with your cluster. Afterwards, you can deploy and manage workloads on Amazon EKS cluster the same way that you would with any other Kubernetes environment.

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How much?

- You pay a per hour charge for each Amazon EKS cluster you create and for the AWS resources you create to run your Kubernetes worker nodes.
- If you are using AWS Fargate, pricing is calculated based on the vCPU and memory resources used.