





# Kubernetes vs. Amazon EKS



Why do you care about spinning up an EKS cluster on Amazon?



Why not choose to create your own Kubernetes cluster or use some other cloud provider like GCP or Azure?



There are a  
multitude of reasons.



# Complexity

When bootstrapping your Kubernetes, you'll be in charge of securing and managing your app. On top of this, Kubernetes maintenance involves upgrades to the cluster, the underlying operating system, and more.

# Integration

EKS works out-of-the-box with the rest of Amazon's infrastructure, like it Elastic Load Balancers & Elastic Block Storage; ELB to expose services & EBS to store persistent data. AWS is constantly ensuring data is online and available to your cluster.

# True Scalability

Amazon EKS provides better scalability. The control plane assures your pods are launched across multiple physical nodes. If any of the nodes go down, your application will still be online.

But if you manage your cluster, you will have to ensure that different VMs (EC2 instances) are on different availability zones. Since running different pods on the same physical server won't give you much fault tolerance.



# Fargate & Firecracker.

VM instances run on virtualized hardware, resulting in a better overall cloud infrastructure security but slower performance.

Containers are lightweight as they all run on the same operating system and share the underlying kernel, resulting in faster boot times, and no performance impact!

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