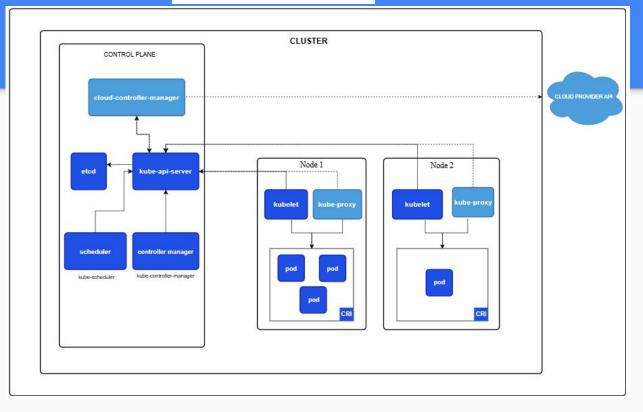
Amazon EKS: Simplified Kubernetes Management



Kubernetes

- Open source orchestration tool
- Orchestrates and manages containers
- Self healing
- Scaling
- Load balancing
- Rolling updates



EKS

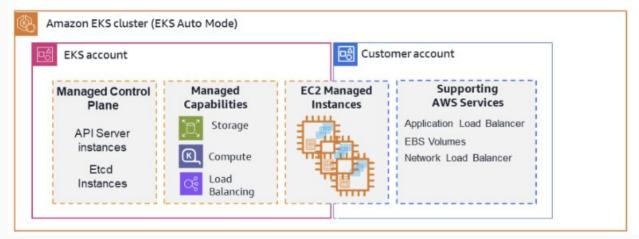
- Without setting up Control Plane
- Save time and effort
- More expensive than Kubernetes



EKS Architecture

- EKS Standard
- EKS Auto

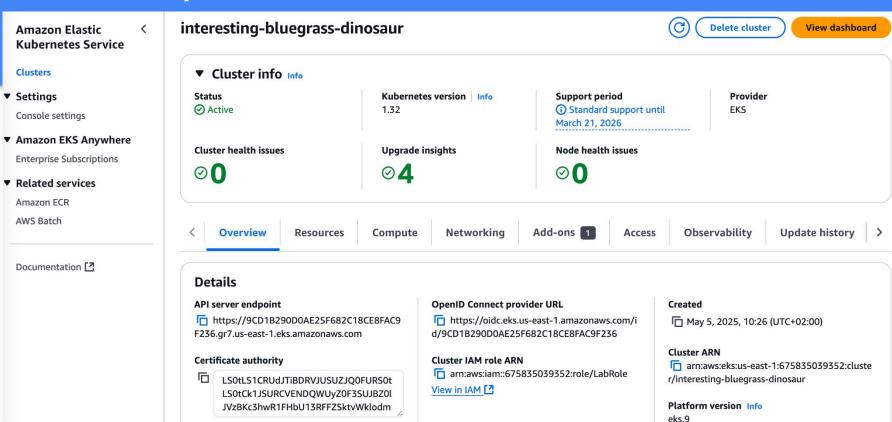




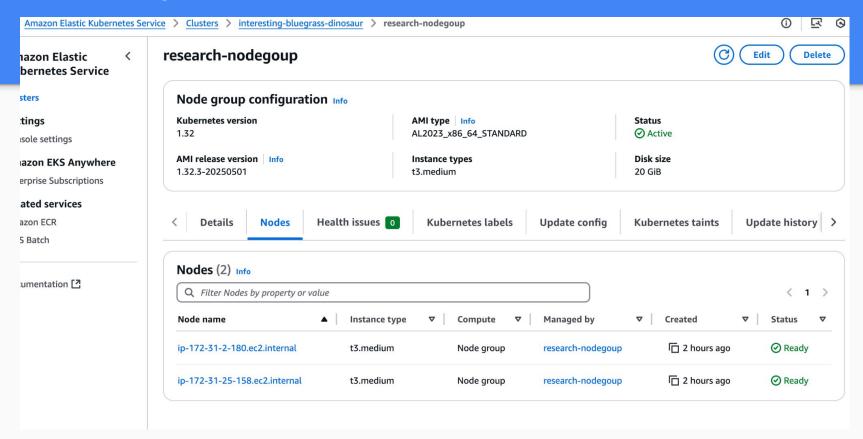
EKS Vs Elastic Beanstalk

	EKS	Elastic Beanstalk
Ease of use	More complex, and requires Kubernetes knowledge.	Easy to get started for developers who do not want to manage infrastructure. Minimal setup.
Use case	Scalable systems, microservices, containers.	Simple web apps, REST APIs
Scaling	Highly customizable and powerful.	Automatic but basic.
Control	Full control over infrastructure and how apps are deployed and run.	Limited control over the underlying infrastructure (AWS handles almost everything).
Technology	Runs containerized apps with Kubernetes	Works with EC2/ELB, no containers required.

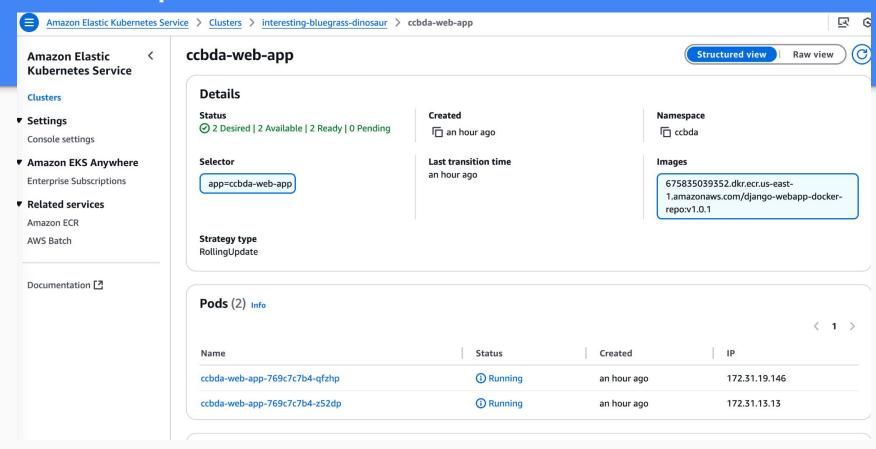
Our experimentation with EKS - Cluster view



Our experimentation with EKS - Node View



Our experimentation with EKS - Pods



Our main Sources

https://docs.aws.amazon.com/eks/latest/userguide/what-is-eks.html

https://kubernetes.io/docs/concepts/architecture/

https://kubernetes.io/docs/tutorials/kubernetes-basics/