CloudHero on AWS

Lift and Shift to EKS

Challenges
Migrating legacy / monolithic applications on EKS

Kubernetes has become the standard way for companies to run modern applications at scale. Businesses looking to modernize applications often find themselves unsure how to start while asking questions like:

- Can we migrate our legacy / monolithic applications to Kubernetes?
- Should we break our workloads to microservices before migrating Kubernetes?
- What do we need to get started with microservices?

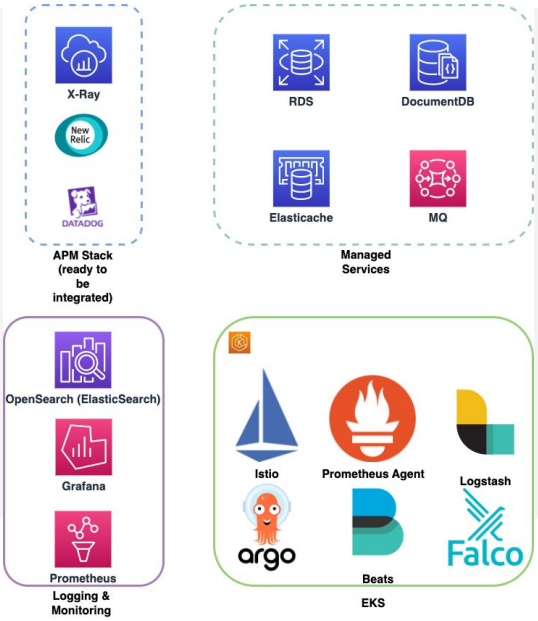
Application modernization requires infrastructure primitives that can help businesses move fast, gain visibility into what is happening with the workloads and also provide reliability and stability.

The CloudHero Solution
Lift and Shift

Based on our experience working with customers, the fastest way to modernize existing applications is to first migrate to Kubernetes on a lift and shift approach (with no or minimal modifications to the application architecture). Once the application is up and running on Kubernetes, modernization can start.

The best way to use Kubernetes on AWS is EKS. The Amazon EKS is a managed Kubernetes service that allows businesses to run and scale Kubernetes clusters in a trusted and cost-effective way.

EKS in combination with open-source technologies has helped bootstrap our customers modernization efforts in the cloud.



Benefits

Insert a brief 15-20 word statement describing the overall benefit your solution provides, setting up the benefits listed below.

Painless Access to Modern Infrastructure

EKS is a system that knows how to run containerized applications. If your application can be containerized, it can run on EKS, regardless of its architecture.

Increased Developer Productivity

Providing developers with the tools for shipping code fast and consistently will dramatically improve their productivity.

Accelerated Application Modernization

Migrating to EKS provides access to a robust DevOps tool kit and automation best practices that you can use to modernize workloads successfully.

Improve Customer Satisfaction

Using a platform like EKS, where you can run both legacy and modern applications, will reduce the number of systems that need to be maintained, reduce human errors, enhance security and save time.

CloudHero on AWS

Lift and Shift to EKS is a best-practice and production-ready offering of workflows and tools that guarantees a painless modernization of your applications and migration into a secure, scalable and performant AWS setup. It applies to both containerised and non-containerised workloads along with any other dependencies, including:

- Databases (MySQL, MongoDB, PostgreSQL, MariaDB, Microsoft SQL, Oracle)
- Caches (Redis, MemcacheD)
- Queues (RabbitMQ, Kafka)

Automation and Security

Every component of the infrastructure is deployed using an IaC (Infrastructure-as-Code) approach and integrated into pipelines so that the whole process is repeatable, auditable and secure.
Any infrastructure change goes through multiple environments to make sure that configuration errors are caught on as early as possible. IAM Policies for both humans and automation tools are deployed in a least-privilege manner in order to minimize the area of impact in case of security flaws.

24x7 Support

To make sure operations run smoothly, we also offer 24x7 support for all of our customers on: EKS Node Groups, Services deployed on EKS, Logging stack (ELK), Monitoring stack (Prometheus/Grafana), Databases (MySQL, PostgreSQL, MongoDB), Queues (RabbitMQ, Kafka), Caches (Redis, MemcacheD)

Case Study: Otter Distribution

Challenges

With plans to scale its e-commerce business, Otter has embarked on a digital transformation journey in 2019. They focused on refactoring applications to be cloud-ready and consolidate their infrastructure around Amazon Web Services.

Solution

Otter runs its entire eCommerce services on AWS using EKS, Docker and Istio. They are also using the ELK stack for logging, Prometheus/Grafana for monitoring and New Relic as an APM agent.

Results

The software release cycle improved dramatically, as developers were able to deploy in production autonomously. Kubernetes provided infrastructure standardization across environments. This helped us reduce the number of bugs that could reach production.

Get started with CloudHero solutions on AWS

Visit AWS Marketplace cloudhero.io to purchase or start a Free Trial today.