

CyGlass Modernizes Platform Architecture to Control Costs and Improve Scalability

Background

The CyGlass Network Defense as-a-Service (NDaaS) solution simply and effectively identifies, detects, and responds to threats to your network without requiring any additional hardware, software, or people

CyGlass engaged Shadow-Soft for help with planning and building its next-generation architecture on AWS. The company wanted to make better use of containerization and container orchestration tools to control infrastructure costs and improve scalability.

Challenge

Like a lot of growing companies, CyGlass needed to overcome challenges holding back its deployment speed and agility. Technical and cost limitations associated with CyGlass's current platform architecture impacted their ability to meet growing customer demand for its solution.

Infrastructure costs

To confidently grow the customer base without compromising the balance sheet, CyGlass needs to control the rising costs associated with provisioning new clusters each time it brings on a new set of clients. CyGlass's existing platform architecture could not scale to meet customer demand.

Single-tenant architecture

The CyGlass application architecture was based upon cluster-singletons, which were cumbersome to deploy and could not be customized for utilization. This made it difficult to sustainably bring on additional, and larger customers.

Flexibility and portability

CyGlass's application required the new multi-tenant architecture to move between multiple public cloud providers and on-prem data centers.

Solution

Shadow-Soft engineers helped CyGlass in three phases: Assessment, Implementation, and Enablement.

Shadow-Soft engineers assessed CyGlass's existing architecture against best practices and provided CyGlass with a list of recommendations. This phase involved performance testing to compare different platforms, helping CyGlass identify the best platform for their application. Shadow-Soft engineers then assisted in migrating the application to the new platform. Lastly, Shadow-Soft engineers provided the CyGlass team with knowledge transfer and training to enable the CyGlass team to run their new systems.

Migrate from Amazon EC2 to Amazon EKS to help control infrastructure costs

Shadow-Soft engineers migrated the application from Amazon EC2 to Amazon EKS, allowing CyGlass to move from a single-tenant architecture to a multi-tenant architecture.

Build architecture roadmap with recommendations

Shadow-Soft engineers built a detailed architecture roadmap to help CyGlass implement a multi-tenant, multi-cloud, modern architecture.

Microservices-based platform provides portability

Shadow-Soft engineers assisted in refactoring the application to a microservices architecture, giving CyGlass the flexibility to move from one cloud provider to another with a standard Kubernetes-based environment.



Josh Bregman, VP of Technology, CyGlass

"Shadow-Soft has a fantastic reputation in the open-source community, Shadow-Soft's work was foundational to what we've done architecturally since. As we continue to do test, probe and analyze the solution, Shadow-Soft's recommendations help to keep us on track."



Results

CyGlass is realizing a 3X reduction in platform infrastructure costs and a 12X reduction in build time.

Engaging ShadowSoft allows CyGlass to reduce the risk associated with migrating to modern multi-tenant architecture. By quickly evaluating and selecting the best architecture to support CyGlass's growth, the company can confidently build onto its platform knowing they have a great foundation.

In addition, the new platform provides CyGlass with increased agility. The company is now in a great position to quickly adapt to changing customer needs and sustainably bring on new customers in a controlled manner.

3X reduction in platform infrastructure costs

Reducing AWS infrastructure costs allows CyGlass to confidently manage one of its largest expenses.

12X reduction in build time

Implementing a multi-tenant architecture reduced platform build time required for onboarding new customers, allowing CyGlass to confidently meet increasing customer demand.



Josh Bregman, VP of Technology, CyGlass

"As a cash-conscious startup, we are always looking for ways to reduce costs. Shadow-Soft really helped us manage our AWS infrastructure with cost in mind."

"We're delighted to see that all of Shadow-Soft's recommendations helped energize and galvanize the team, pointing us in the right direction. CyGlass now has a solid platform to bring on more large customers."



"CyGlass are innovators in their space and we are super excited to work on a great problem. This is the type of work Shadow-Soft likes, we like helping organizations navigate their technology challenges with best practices."

- John Ray



"Creating business value from emerging technology is in our company DNA. Our practical experience removes the risk and effort of embracing game-changing solutions like Open Source, DevOps and Cloud."

- Chris Sibold

About Shadow-Soft

Shadow-Soft is a systems integrator with a rich open source history. Our team of strategists and engineers help organizations navigate their technology journey with confidence.

Hundreds of customers rely on Shadow-Soft to solve business problems with solutions that span culture, process, and technology.

Founded in 2008, Shadow-Soft has office locations in Atlanta and Nashville.

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