

Advanced Application Delivery Requirements for High-Growth Global ISP

Company:

- Cyso

Industry:

- Service Provider

Critical Issues:

- Rapidly growing organization with increasing demands required a full featured, advanced load balancer that is efficient, high-performing and reliable

Selection Criteria:

- High-performing, multi-tenant virtualization solutions. All-inclusive product with flexibility to choose services as well as features, which satisfy the overall client base

Benefits:

- Superior virtualization solutions to enable any public or private cloud deployment

Results:

- Quick deployment and migration improve IT management efficiency. Cost reductions and ROI with virtualization options. IT maintenance and responsiveness has improved by reducing frequency, duration, and impact of downtime

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Stanley Westerveld
Senior Systems & Component Architect
Cyso

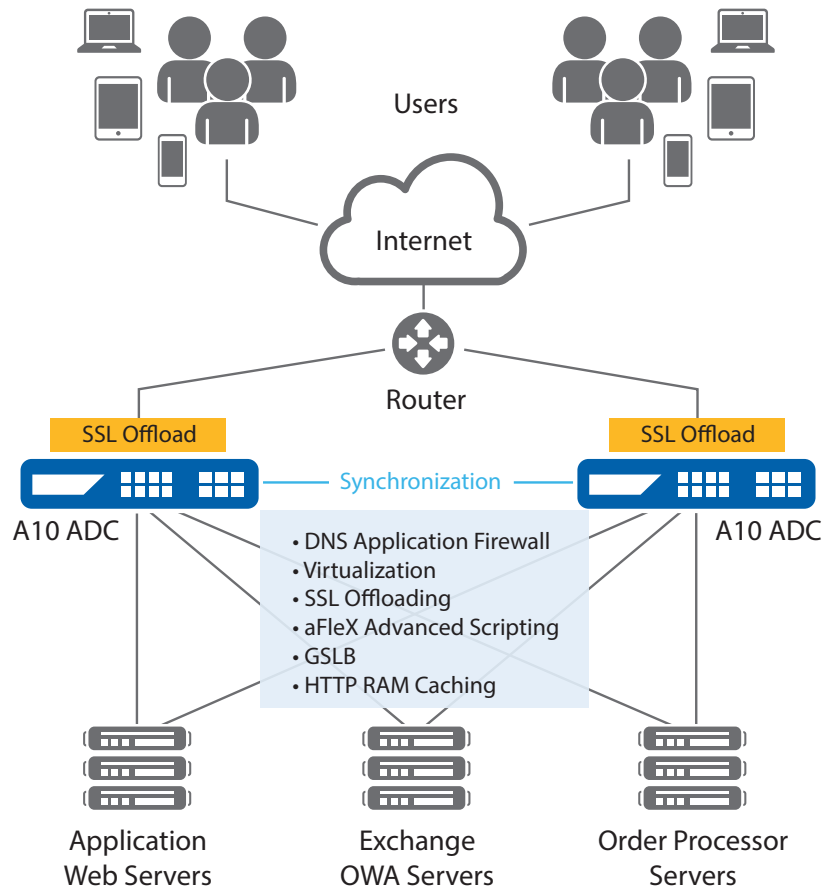
Cyso, founded in 1997 and based in Alkmaar in the Netherlands, is a well-established reputable Internet Service Provider (ISP) and Managed Hosting Provider delivering Engineering Data Management (EDM) and Application Integration solutions. Dedicated to providing its customers with innovative business Internet solutions, Cyso focuses on high performance, security and proven stability for its clients. Over the past 15 years, Cyso has provided fully managed Internet services to industries such as manufacturing, government, healthcare, energy, and telecommunications. Spanning over 50 countries worldwide, Cyso has a rapidly growing client base, serving websites and applications around the globe.

Over the past several years, Cyso has specialized in the development and implementation of high availability environments, application hosting, hosted Microsoft Exchange applications and clustered systems. With the increasing demand of customer requirements, Cyso needed a scalable advanced load balancing solution for its growing number of clients. Stanley Westerveld, Senior Systems & Component Architect for Cyso said, “We are hosting a large variety of services, ranging from IaaS solutions, SaaS applications, managed application platforms, virtual web hosting platforms and many more.”

Unmatched Features with a Scalable and High Performing Platform

After evaluating its options, it was clear to Cyso that A10 Networks was able to support the advanced requirements of all its enterprise services with its Application Delivery Controllers (ADCs). A10's no-licensing model is a differentiator in the industry, and F5, the only other competitor to A10 when Cyso was reviewing new vendors, could not match A10's comprehensive no-licensing commitment or virtualization functionality.

According to Westerveld, “A10 offers an all-in-one solution in which all possible features are available by default. We can just pick and choose services and features to use, depending on the application and customer; this greatly simplifies operations. Probably the most significant reason we chose A10 Networks was the fact that we could virtualize A10 devices for multi-tenant purposes. We can offer an individual A10 device if a customer needs it, which is something we couldn't do with F5's solution.”



Cyso's Application Delivery Landscape

Cyso is benefitting from the following A10 ADC features:

- Virtualization:** Cyso utilizes the A10 ADCs' multi-tenancy feature to consolidate its clients' distinct environments onto a single pair of A10 ADC appliances. Through virtualization with Application Delivery Partitions (ADPs), the A10 ADC can deliver more than a hundred instances, consolidating servers to virtual platforms, for overall efficiency.
- SSL Offloading for Web and Hosted Email:** Instead of SSL encrypting and decrypting at the mail or web server, the A10 ADC takes on these tasks to process CPU-intensive traffic to a dedicated SSL ASIC, with no additional licensing costs. This also dramatically reduces the number of required servers to support transactions, while seamlessly increasing transaction speed and decreasing overall complexity. Notably, the A10 ADC performs SSL offload for email with STARTTLS for Microsoft Exchange.
- DDoS Protection and Security:** The A10 ADC ensures its position to detect and stop attacks directly from Distributed Denial of Service (DDoS). ASICs implement a series of customization to offload attack detection, as well as a proactive security stance of prevention from attacks by other devices without sacrificing performance.
- aFlex Advanced Scripting:** A10 Networks aFlex advanced scripting tool is based on the standard TCL scripting language. aFlex's Deep Packet Inspection (DPI) techniques grant IT complete control of a packet's payload, delivering advanced flexibility for any application task; one usage example is custom URL rewrites.
- Global Server Load Balancing (GSLB):** The A10 ADC allows disaster recovery functionality between data centers, running local as well as global traffic management, all within the same platform. The GSLB feature met Cyso's requirements for data center to data center failover, while local data center high availability pairs combined with capacity to handle high peak loads. Critical DNS infrastructure is also load balanced for additional robustness. All these measures ensure an optimal user experience, at any time.
- Dynamic HTTP RAM Caching:** The A10 ADC improves Cyso's customer web user experience with its advanced HTTP RAM caching feature, which improves application response time by reducing CPU processing times when requesting content from the servers. The A10 ADC provides faster client download for HTTP/HTTPS objects and improves web server scalability.

A Complete User Experience

The hosting industry is extremely competitive where the highest performance, security, and reliability are ideal to a client's success to exceed users' satisfaction and expectations. A10 ADC supplies unmatched features, allowing Cyso to enhance and expand its portfolio and services as well as presenting sophisticated product offerings to its client base. The A10 ADC delivers the competitive advantage that hosting providers such as Cyso seek by reducing the impact of support, and simplifying operations as well as overhead costs by managing maintenance windows; in addition to reducing required servers.

"The A10 ADC devices offer a high performance, multi-featured solution that allows us to offer a wide range of enterprise services for our customers," explains Westerveld. Since deploying the A10 ADC, Cyso's hosting service has performed flawlessly and more efficiently. The A10 ADC provided a complete answer to Cyso's needs by not only delivering a significant price and performance advantage over the competing vendors, but also by providing adaptability and strong investment for Cyso's future growth.

About A10 Networks

A10 Networks is a leader in application networking, providing a range of high-performance application networking solutions that help organizations ensure that their data center applications and networks remain highly available, accelerated and secure. Founded in 2004, A10 Networks is based in San Jose, California, and serves customers globally with offices worldwide. For more information, visit: www.a10networks.com

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Part Number: A10-CS-80125-EN-01
Feb 2015

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