A10 Thunder Application Delivery Controller & Load Balancer

Service providers are hosting a growing amount of network and application traffic. Organizations must guarantee their applications are delivered efficiently and constantly accessible.

The most straightforward method of distributing that traffic across a cluster of servers is with a load balancer device. A load balancer reduces individual server load by balancing application requests across multiple servers, and prevents any one application server from becoming a single point of failure, thus improving overall application availability and responsiveness.

Agile Application Delivery

A10's Thunder Application Delivery Controller & Load Balancer (ADC), delivers the capacity, scalability, and programmability to adjust to an ever changing environment. By utilizing multiple load balancing techniques (Layers 4-7), Thunder ADC efficiently distributes workloads across all servers while constantly evaluating application health. Client requests are forwarded to servers that host the proper content and can best respond to ensure application and content delivery.

FEATURES:

- **Header, URL and domain manipulation**
- **Advanced Layer 4/Layer 7 Server Load Balancing**
- **aFleX technology for deep packet inspection and traffic manipulation**
- **Comprehensive load balancing methods**
- **Application Authentication and SSO**
- **Zero-Day application Protection**
- **Powerful DNS Firewall**
- **Server DDOS Protection**
- **Fully Programmable**

- **Comprehensive IPv4/IPv6 Support**
- **Saves on CAPEX and OPEX**
- **Security that ensures availability**

A10 Networks Thunder ADC and Load Balancer is built on a platform that optimizes both user experience and your bottom line with innovations that offload CPU-intensive tasks to enable servers to do more, and do it faster.

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MANAGED BROADBAND SERVICES
1.800.909.9441
4501 North Point Parkway, Suite 125
Alpharetta, GA 30022
ZCorum.com
Facebook.ZCorum.com
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Load Balancing Capabilities

The core of the A10 Thunder ADC platform covers a wide range of options for load balancing methods and health checks. Comprehensive IPv4 and IPv6 support across all models maximizes options for current and future deployment. Core load balancing capabilities include:

Layer 4 (L4) load balancing – The ability to direct traffic based on data from network and transport layer protocols, such as IP address and TCP port

Layer 7 (L7) load balancing and content switching – The ability to make routing decisions based on application layer data and attributes, such as HTTP header, uniform resource identifier, SSL session ID and HTML form data

Global server load balancing (GSLB) – Extends the core L4 and L7 capabilities so that they are applicable across a geographically distributed server farm

Secure Communications

Thunder ADC front-ends servers and offloads cumbersome, processing-intensive tasks associated with the latest cryptographic standards. This maximizes content protection, speeds delivery and lowers infrastructure expenses. Thunder ADC provides protection against 'zero day' and other emerging application layer threats with DNS and web application firewalls.

Advanced Server Load Balancing

Thunder ADC is a full-proxy, load balancing and content-switching solution. With aFleX® scripting, deep packet inspection, comprehensive load-balancing algorithms and persistence support, Thunder ADC enables application layer visibility to optimally route inbound requests.

Optimize the infrastructure you already own

In addition to providing complete DDoS protection, A10 Thunder ADC delivers traffic steering and advanced layer 4-7 load balancing to make the equipment you already own perform at its best. And you can extend availability even further, by offloading CPU-intensive tasks, like SSL encryption/decryption to A10 Thunder ADCs. Additional A10 features designed to speed existing infrastructure include RAM caching, TCP reuse, and HTTP compression, all of which free the backend servers from further repetitive and processor-intensive tasks.

Global Server Load Balancing

Global Server Load Balancing (GSLB) is a technology which directs network traffic to a group of data centers in various geographical locations. Each data center provides similar application services, and client traffic is directed to the optimal site with the best performance for each client. GSLB monitors the health and responsiveness of each site, and like Server Load Balancing, directs traffic to the site with the best response times.

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