

CumuloLogic Load Balancer for Extreme Scaling

Highlights

- Fully managed, low cost and scalable load balancer for any cloud
- Dramatically improves fault tolerance of cloud-based applications
- Highly available, resilient and with performance optimization capabilities to support mission critical applications
- Easy-to-use, single-click deployment
- Eliminates manual tasks, lowering the cost of application operations
- Security at multiple levels via firewall, security groups of the IaaS cloud, or via configuration for secure connections
- Easy management via UI console or RESTful APIs

Load balancers play a critical role in scaling applications in the cloud. Load balancers distribute the incoming traffic to multiple web servers or application servers and provide a mechanism to scale applications based on the workload. Unlike on-premise load balancers, cloud applications use software load balancers to achieve even greater scale.

The CumuloLogic platform provides a specialized, low cost and scalable load balancer for any Infrastructure-as-a-Service (IaaS) cloud. The CumuloLogic load balancer offers all the features of an on-premise load balancer: easy deployment, full management, automatic node discovery for managed applications. CumuloLogic Load Balancer enables you to achieve even greater fault tolerance in your applications, seamlessly providing the appropriate amount of load balancing capacity needed in response to incoming application traffic. The CumuloLogic load balancer detects unhealthy nodes and automatically reroutes traffic to healthy nodes until the unhealthy nodes have been recovered.

CumuloLogic's load balancer is extremely simple to deploy and provides the high availability, resiliency, and performance required by mission critical applications.

With the CumuloLogic load balancer, you can build and deliver a fully managed and highly available "Load Balancer-as-a-Service," enabling the design of application architectures to fit specific availability, scalability and performance needs.

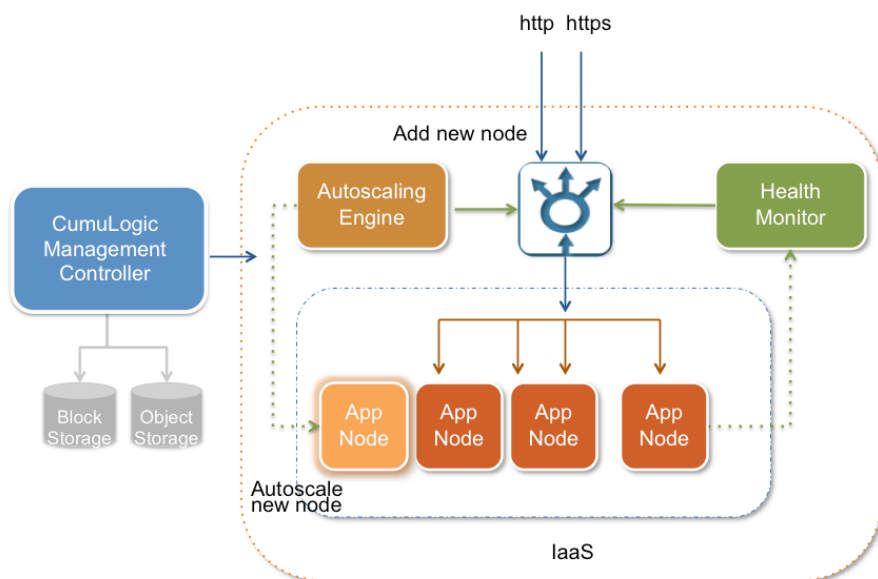
CumuloLogic's load balancer is integrated with the CumuloLogic platform for developers to deploy applications in any language and scale the applications seamlessly with the load balancing service.

CumuloLogic Load Balancer At-A-Glance

Features supported by the CumuloLogic load balancer vary depending on the load balancer engine selected. Below are some common features:

Provisioning – Single-click or single-API call to provision the desired load balancer instance sizing it with configuration and performance parameters, and rules for auto update and patches.

Monitoring – Visibility into key functional and operational metrics of the load balancer engine and instance, including CPU, memory, I/O, network traffic, and response time.



Matthew Porter
CEO & Co-Founder,
Contegix

“WE ARE VERY PLEASED WITH THE EASE OF INTEGRATION THAT WE’VE SEEN WITH THE CUMULOGIC PRODUCT. WORKING WITH CUMULOGIC PROVIDES FOR A NATURAL EXTENSION OF OUR MIRACLOUD PLATFORM AND DELIVERS ON OUR COMMITMENT TO DELIVER ROBUST TECHNOLOGY IN A VERY FLEXIBLE WAY.”

Recovery – Automated recovery of load balancer from a service or instance failure. In the event of a service failure, the service will recover seamlessly and will re-provision a fully configured load balancer instance to replace the failed instance.

Automated Software Patching – Optional feature to apply minor updates and patches to the load balancer engine. Users can choose when the updates are to be performed based on the application maintenance downtime.

Optimization – Users can modify the performance parameters to suit the application workloads in real-time and in most cases without rebooting or shutting down the running load balancer instances.

CumuLogic Advantages

- Easy-to-use with single-click deployment: new load balancer instances can be quickly provisioned either using the user interface or a single API call. The load balancer service can be launched separately and then bound to a running application or can be orchestrated to launch during application deployment.
- Low TCO: load balancer instances are fully managed and monitored, eliminating most manual tasks and substantially lowering the cost of application operations.
- Security at multiple levels: load balancer instances are secured using the firewall

settings and security groups of the chosen IaaS cloud, allowing users to control remote access to all load balancer instances. Additionally, load balancer instances can be configured to use only secured connections.

- Any cloud: CumuLogic’s platform abstracts the underlying APIs of the IaaS cloud or vSphere environment, allowing users to deploy the platform and the load balancer on any supported private or public cloud.

LOAD BALANCER DEPLOYMENT DOWN TO A SINGLE CLICK!

- Autoscaling: for CumuLogic platform managed-applications, CumuLogic’s load balancer will automatically adjust the load balancing configurations to match the autoscale up/down events in the application cluster.
- Managed node failures: the CumuLogic load balancer can detect unhealthy load-balanced instances, marking the node and automatically spreading the traffic across the remaining healthy nodes.
- Improved fault-tolerance for your application: the load balancer can automatically distribute traffic across multiple nodes and multiple datacenters

to ensure that only healthy nodes receive traffic.

- Management access: CumuLogic’s load balancer provides full management access via a UI console as well as RESTful APIs.

Use Cases

Applications with Large Footprint

With the CumuLogic load balancer your applications can be distributed horizontally across multiple nodes, helping you achieve greater fault tolerance while providing required performance by seamlessly distributing workloads across all nodes.

Application with Dynamic Scalability Requirements

Load balancers work in a synergistic manner with our middleware components, helping distribute the workloads so that applications can scale up and down in response to incoming application traffic.

Getting Started

CumuLogic load balancer can be deployed either on-premise or via a Cloud Provider. Please contact us at info@cumulogic.com.