



Invest in your
architecture

**THE FIRST HIGH AVAILABILITY
LOAD BALANCER APPLIANCE**
With HotSwap RAID and on site support



Cluster
LOAD

Mature next generation 64 bit load balancing on Dell hardware

Rapidly Increase Availability, Scalability & Support

In the past, complex setup procedures and price have restricted organisations from deploying load balancers at the critical part of their network. The ClusterScale load balancers are designed for organisations of all sizes and complexities. Utilising top tier commodity hardware, the ClusterScale load balancer is the **most affordable, high performance, enterprise-grade load balancing solution in its class.**

The ClusterScale load balancers allow you to easily scale your application clusters using industry standard techniques. With no artificial software licence restrictions you can utilise the raw power and flexibility of the underlying Dell hardware for an unlimited number of clusters and real servers on day one. Both the Pegasys and Nemasys Load Balancers feature:

- ▶ Full feature set (fully available out of the box)
- ▶ Best in class performance, Layer 4 to 7
- ▶ Market leading levels of redundancy
- ▶ 64 bit architecture, delivering tomorrow's performance, today. >2Gb throughput
- ▶ Intuitive ClusterScale web interface
- ▶ Global on-site support available 24x7

The Hardware Maintenance Advantage

Unlike other appliances on the market we don't lock you into our technology, the hardware maintenance contract is direct with Dell with you as the registered customer. This gives quality worldwide on-site hardware maintenance that you can rely on.

The commodity Dell hardware integrates directly with your infrastructure management platform of choice with built in IPMI etc. Your engineers already know how to look after the hardware and don't need to get used to yet another appliance with an arcane TFTP based recovery process that always requires a consultant to figure out. ClusterScale software recovery is a simple case of insert the recovery CD and restore the software image.



ClusterScale offer the first Hot Swap RAID load balancer appliance in the industry

Most vendors have gone down the solid-state flash route for storage on load balancer appliances. From our experience unless this is done with very rigorous hardware testing it can cause more downtime

than hard disks due to corruption & geometry issues. The large amount of local storage also allows you to rapidly store and analyse logs (a requirement for high-availability).

Technical Specifications

LOAD BALANCING

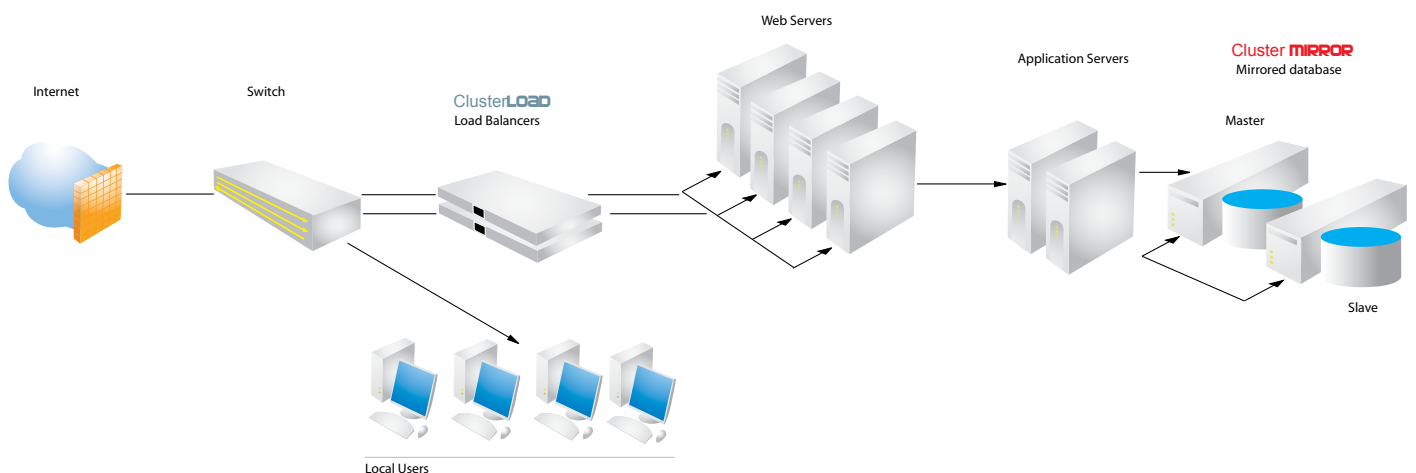


Layer 4 & Layer 7 load balancing
Sticky Sessions: Source IP, Netmask, Port following, Cookies
SNAT, NAT & Direct Routing support
Server Health monitoring ping, connect, negotiate & customised
Server weighting, max and min weights
Schedulers: WLC,LC,RR,WRR,LBLC,LBLCR,DH,SH,SED,NQ,CF
Adaptive scheduling agents for UNIX, Linux, Mac & Windows

PERFORMANCE



> 2Gbps Throughput
100,000 http page GETs/second
200,000 L7 concurrent sessions
7,000,000 L4 concurrent sessions
SSL Termination 150 TPS
Full Support for certificate chaining and super certs



Solid Appliance Style Solutions

The Platform Choice Advantage

The ClusterScale Load Balancer can be purchased with our own customised Centos 5 based platform or if you prefer it can be purchased on a Red Hat Enterprise Linux 5 platform combined with the excellent RedHat support packages.

The ClusterScale Support Advantage

Talk direct to our own support engineers 24*7, and be pleasantly surprised by an intelligent answer to your questions. We offer consultancy and on-site installation.

Ease of use and Flexibility

As you would expect, the ClusterScale Load Balancer comes with a clean & simple web based interface. The appliance includes a flexible selection of reporting tools including the built in graphical statistics, and a full implementation of SNMP.

Also Available as a Virtual Appliance

For the ultimate in flexible architecture, the ClusterScale Load Balancing appliance is also available for VMWare ESX server.

Model Comparison



	nemasys	PEGASYS	ClusterLITE
Dell model	Power Edge 1950	Power Edge R200	Power Edge R200
CAPACITY			
Throughput	>2GBps (UNRESTRICTED)	>2GBps (UNRESTRICTED)	>2GBps (UNRESTRICTED)
Real Servers	UNRESTRICTED	UNRESTRICTED	4*4 (max 16)
Virtual servers	UNRESTRICTED	UNRESTRICTED	4
HARDWARE			
Rackmount chassis	1U(600x800)	1U(600x800)	1U(600x800)
Rackount Rails	Sliding	Sliding	Sliding
Dimensions (in.)	1.67" x 16.70" x 30.40"	1.67" x 17.60" x 21.50"	1.67" x 17.60" x 21.50"
Dimensions (cm.)	4.26cm x 42.60cm x 77.20cm	4.26cm x 44.70cm x 54.61cm	4.26cm x 44.70cm x 54.61cm
Weight	35.8 lbs / 16.3 Kg	26.0 lbs. / 11.80kg	26.0 lbs. / 11.80kg
Ethernet	4 * Gigabit NICs	2 * Gigabit NICs	2 * Gigabit NICs
Power	Redundant Power (670W)	Single Power (345W)	Single Power (345W)
RAM	2GB	1GB	1GB
Processor	Xeon Quad Core	Xeon Quad Core	Xeon Quad Core
Storage	2x160GB SATA	160GB SATA	160GB SATA
RAID	YES - WITH HOT SWAP	NO	NO
FEATURES			
Module licensing	UNRESTRICTED	UNRESTRICTED	UNRESTRICTED

* Specifications subject to change.

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