



Invest in your  
**architecture**



**Mature next generation 64 bit  
load balancing on Dell hardware**  
Rapidly increase availability, performance,  
scalability and support

Cluster  
**Load**

# ClusterLoad from ClusterScale

## Rapidly Increase Availability, Scalability & Support

Today, most businesses are heavily reliant on technology. Ensuring continuous availability of an organisation's critical applications is therefore a must. At ClusterScale we believe that applications and networks should work all the time. But price and complexity have been two of the key barriers restricting organisations from deploying load balancers at critical parts of their network.

Designed for organisations of any size, the ClusterLoad range of load balancers are the most affordable, high performance, enterprise-grade solutions in their class. Based on recognised industry standards, ClusterLoad delivers superior technology and performance at unbelievable prices, enabling organisations to easily scale their clusters and adapt to meet the changing needs of their business.

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 from day one.

### The ClusterLoad hardware maintenance advantage



Unlike other appliances in the market, we don't lock you into our technology. Your hardware maintenance contract is direct with Dell, ensuring quality worldwide on-site hardware maintenance that you can rely on.

This commodity hardware integrates directly with your infrastructure management platform of choice with built in IPMI. Your engineers already know how to look after the hardware, negating the need to learn another appliance with an arcane TFTP based recovery process. With ClusterLoad, should software recovery be required it's simply a matter of inserting the recovery CD and restoring the software image.



### Solid appliance style solutions

- ▶ The platform choice advantage - ClusterLoad can be purchased with our own customised Centos 5 based platform or if you prefer, it can also be purchased on a Red Hat Enterprise Linux 5 platform combined with RedHat support packages.
- ▶ The ClusterLoad support advantage - Talk direct to our own support engineers 24\*7, and be pleasantly surprised by the intelligent answers you get to your questions. We offer expert consultancy and on-site installation.
- ▶ Ease of use and flexibility - ClusterLoad comes with a clean and simple web based interface. The appliance includes a flexible selection of reporting tools, including built-in graphical statistics, and a full implementation of SNMP.



## Introducing the ClusterLoad range...

### The ClusterLoad range includes:

- ▶ ClusterLoad *Pegasys* – High Availability (HA) load balancer
- ▶ ClusterLoad *Nemasys* – Ultra High Availability (UHA) load balancer
- ▶ ClusterLoad *ESX* – High Availability (HA) Virtual Appliance (VA) load balancer

### ClusterLoad *Pegasys* – the first high availability load balancer of its class at an affordable price



In the past, organisations have been faced with the dilemma of needing to secure the continuous operation of their network while still needing to be financially frugal. Some managers could come to the decision that they can only afford one load balancer – but no more.

ClusterLoad *Pegasys* provides cost effective, high availability load balancing to match any system on the market at a fraction of the cost. Suitable for mid to large organisations, ClusterLoad *Pegasys* is the perfect solution for companies looking for a no-nonsense solution that can provide performance peace of mind.

#### Key features include:

- 64 bit load balancing on Dell hardware
- Dual-Core Intel® Xeon® performance chips
- Superior performance, ease of use and highly competitive RoI
- Rapid scalability because the product has been designed with expansion in mind
- Strategic architecture investment at a compelling market price
- Full source code access to aid system integration which is better than API
- Full system image creation/recovery from a built-in CD
- Peace of mind with round-the-clock support and an on-site hardware engineer
- On-site installation and consultancy

### ClusterLoad *Nemasys* - the first Hot Swap 'RAID' load balancer appliance in the industry



Many vendors have gone down the solid-state flash route for storage on load balancer appliances. From our experience unless this is undertaken with rigorous hardware testing, it can cause more downtime than hard disks, owing to corruption and geometry issues. Additionally, hard discs provide a significant amount of local storage allowing you to rapidly store and analyse logs which is essential to achieving high availability.

ClusterLoad *Nemasys* provides all the functionality of ClusterLoad *Pegasys*, yet with added safeguards to ensure systems are protected at their most vulnerable points. ClusterLoad *Nemasys* offers the first hot swap 'RAID' drive load balancer appliance in the industry, with dual power supply units (PSUs) and a higher performance chip to ensure ultra high availability.

#### Key features include:

- Quad-Core Intel® Xeon® Performance Chips
- Hot swap 'RAID' drives
- Dual power supply units (PSUs)
- All the features listed for ClusterLoad *Pegasys*
- 4 x Gigabit Ethernet



Load balancers by their nature have fairly modest hardware requirements, so a virtual platform makes a lot of sense from a technical standpoint. Thanks to hardware virtualisation, a new method is emerging that leverages all the advantages of hardware appliances without the hardware. ClusterLoad ESX VA allows you to package a fully configured and optimised software stack in a virtual server format that can be quickly deployed on top of VMware ESX. The software is simple to install on Windows, Mac & Linux and does not have any adverse effects on the host operating system. ClusterLoad ESX VA manages your application traffic, inspecting, transforming and routing requests as it load balances them across the application infrastructure. ClusterLoad ESX VA has passed VMware's stringent VA Certification program. Built on a proven operating system base, the product has additional management tools to make installation and configuration quick and easy.

Delivering outstanding power and flexibility at an affordable price, the ClusterLoad ESX VA is just as easy to set up in a clustered configuration for high availability. The VA version is almost identical to the widely implemented ClusterLoad hardware appliance and comes with full layer 4-7 functionality. All industry standard load balancing protocols are supported as well as cookie insertions.

As ClusterLoad ESX VA is based on the same high performance 64 bit code as the other ClusterLoad products, it runs on true 64 bit processors with a VT extension and is fully optimised for VMware ESX & VMware Server.

### Key features include:

- VMware certified
- All the functionality of other ClusterLoad products



### Download your 15 day evaluation copy today...

ClusterLoad ESX VA is a leading traffic management solution, available as a virtual appliance or as a stand alone hardware solution. You can download a full version of ClusterLoad ESX VA and test it on a free VMware player. Please note the software will stop working after 15 days, if you fail to purchase an activation key.

## LOAD BALANCING



Layer 4 and Layer 7 load balancing  
Sticky Sessions: source IP, netmask, port following and cookies  
SNAT, NAT and 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 1,000TPS (Pegasys)  
SSL termination 2,000TPS (Nemasys)  
Full support for certificate chaining and super crts

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