

# KEMP LoadMaster for VMware vCenter Log Insight Manager

Optimized Log Insight Manager Load Balancing



VMware vCenter® Log Insight Manager™ delivers real-time log management and analysis with machine learning-based Intelligent Grouping, high performance search and better troubleshooting across physical, virtual and cloud environments correlating performance events and system log entries and bringing log search and utilization tasks from hours to minutes.

**KEMP Technologies LoadMaster™** is an advanced L4-7 content switching application delivery controller that enables high availability of applications, SSL offload, content switching and intelligent global traffic distribution to direct client requests to the best endpoint across cloud boundaries based on proximity or pre-defined business logic.

## Enabling High Availability and Scalability for Log Insight

vCenter Log Insight Manager makes troubleshooting across physical, virtual and cloud environments easier with universal log collection, powerful analytics, enterprise scalability and ease of deployment. Support for any syslog-compatible device and tight integration with other vCenter and vSphere technologies equips Virtual Infrastructure (VI) admins with the most complete view of their data center operations.

Version 2.0 of Log Insight introduced scale out architecture which supports grouping up to 6 nodes into a unified cluster capable of ingesting syslog messages sent using TCP, UDP, SSL and API. In this architecture, an external application load balancer serves as a central aggregation point for all client connections, monitoring the health of the nodes and distributing traffic. An inherent challenge that arises when syslog messages are sent using methods other than UDP is that clients often use long-lived connections to send many messages. Load balancers typically amplify this challenge by keeping individual client connections directed to the same target node. This results in imbalanced message distribution and sub-optimal utilization of the available Log Insight resources. KEMP Technologies, the leader in application-centric load balancing, has developed a solution to address these challenges.

## Optimized Traffic Handling

VMware vCenter Log Insight management software provides customers with a variety of options for sending logs for collection and analysis. Load balancers that are not aware of the makeup of syslog traffic and message structure at an application level do not have the visibility to ensure proper distribution of messages across a Log Insight cluster and optimized availability. KEMP's LoadMaster application load balancer provides specialized syslog services that enable intelligent L7 traffic distribution across Log Insight deployments.

Solution Benefits:

- **Compatibility with multiple syslog transport methods** makes LoadMaster a comprehensive solution to support Log Insight syslog traffic distribution.
- **Simplified scalability and high availability** are achieved by directing all clients to a single aggregation point.
- **End-to-end management** is enabled through LoadMaster by allowing administrators to gracefully introduce or remove Log Insight nodes.
- **Increased uptime** is made possible through health monitoring, removal of failed systems and automatic reactivation after health is restored.



## Use Cases

### Multi-Node Availability

LoadMaster supports highly available traffic distribution for all supported Log Insight message ingestion methods.

### Maintenance Windows

With LoadMaster serving as a central aggregation point for client connections, maintenance can be performed on the Log Insight infrastructure without impact.

### Scale Out

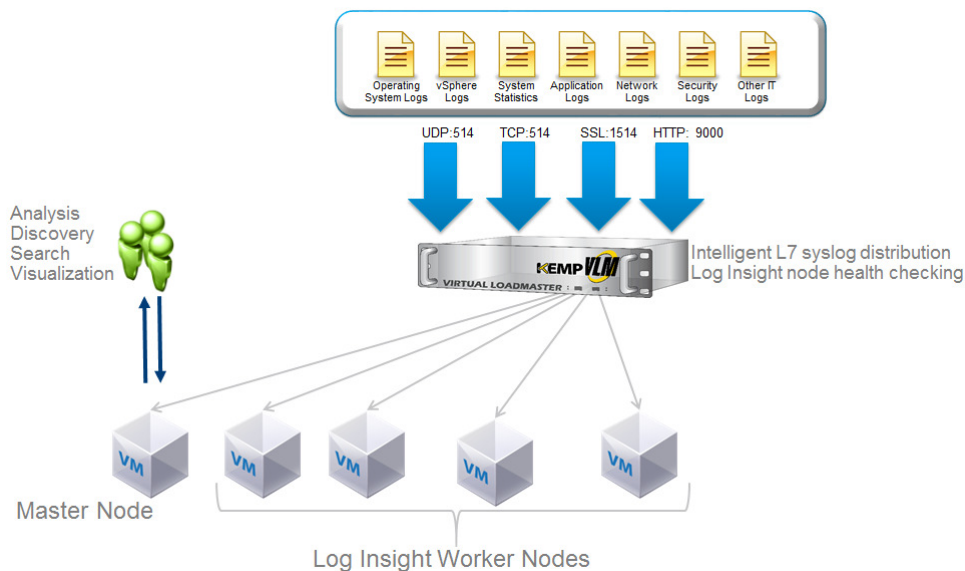
Starting in version 2.0, Log Insight provides enhanced scale out capabilities. LoadMaster removes the need to make updates to individual clients as new cluster members are added.

## KEMP's Value for Virtualized Infrastructures

KEMP is an industry leader in software-based L4-7 application delivery technology and has maintained a laser focus on providing availability and performance for workloads in virtualized and hybrid cloud environments. This strategy has made VLM the virtual ADC of choice in over 11,000 virtualized private cloud customer deployments to date. KEMP's solution for Log Insight further extends these capabilities and supports increased infrastructure operational visibility.

## How It Works

Connections are made by clients to LoadMaster to start communication using a variety of protocols. As individual syslog messages are received, LoadMaster uses its L7 visibility to parse the flows on a per message basis and ensure even distribution across the cluster, even when members are removed or added. LoadMaster executes health checks against the nodes to ensure that only healthy nodes are used as targets and if a node starts to fail health checks, it is automatically removed and re-added only when it returns to a healthy state.



## Learn More about Optimizing vCenter Log Insight Manager with a Free Trial

To learn more about how the LoadMaster can enable high availability and scalability of virtual infrastructure deployments visit KEMP Technologies in the VMware Solution Exchange.

To get a free trial license, download a copy of Virtual LoadMaster and you will automatically be provided with a free one month trial at activation. To see more of KEMP's solutions for VMware technologies, please visit <http://kemptechnologies.com/solutions/vmware>.

