

Pooled Licensing Solution Brief

SOLUTION BRIEF

Flexible Licensing

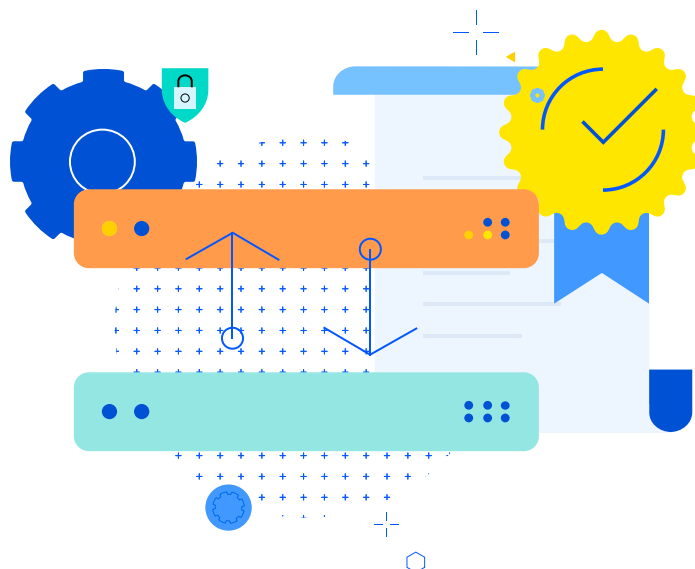
Pooled Licensing from Progress Kemp LoadMaster simplifies the challenge of managing the license lifecycle with a cost effective and flexible approach to enabling load balancing capacity where and when needed.

When coupled with Progress LoadMaster automation capabilities, pooled licensing provides the ability to scale application delivery on demand to meet business requirements.

How it works

Progress LoadMaster 360 acts as the licensing manager for pooled licensing and can issue individual LoadMaster licenses based on the required capacity. Issued licenses deplete the pool but can be recovered and added back into the pool at any time for re-issue.

This provides the flexibility to issue licenses on demand for different use cases, ranging from short-term projects, such as testing, to long-term licenses for customers or departments in the organization.



Addressing the Licensing Challenges

Today's application and service delivery environments are complex and dynamic and require a flexible and easily managed approach to providing the right capacity when required.

Challenge	The Pooled Licensing Solution
I want flexibility to deliver capacity when and where needed	Pooled licenses are on-demand so you can deploy a new instance or re-license an existing instance without any procurement processes.
I want to upgrade or switch plans when required	Our flexible licensing allows you to move between plans and upgrade seamlessly when needed.
I need to be able to scale on demand	Our automation capabilities and APIs support deployment and licensing using toolsets such as Ansible allowing automated scaling of services to meet changing demands.
I use both cloud and on-premises platforms	Pooled licenses can be issued to any LoadMaster on any supported cloud or on-premises hypervisor allowing a single pool to deliver capacity across hybrid environments.
I want to cost-effectively add a security layer to all applications	Web Application Firewall functionality is available for specific Pooled Subscription tiers and it can be distributed and managed through LoadMaster 360.
I want to be able to control how much bandwidth is used by an application	Licenses can be issued from the pool to either have multiple applications per LoadMaster or distribute specific applications to their own LoadMasters. Doing this allows specific control on bandwidth allocation.



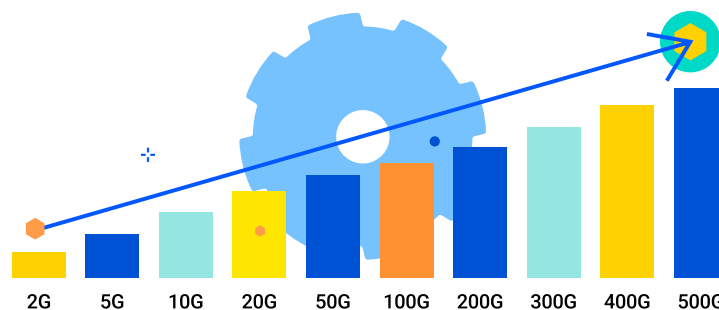
Pooled Licensing Features

The LoadMaster family of products provides native integration with orchestration and management frameworks including VMware vRealize and Hyper-V. Subscriber virtual appliances may be orchestrated and monitored via these standard toolsets with the capability to implement customized processes and controls via the RESTful API.

Feature	Benefit
Annual subscription	Reduced up-front investment and flexibility to grow as demands change
License Flexibility	Optimize use of license pool by avoiding over or under-provisioning
24x7 Support	Access the skills and resources of the LoadMaster team whenever needed
Cross Platform	Use the same license for all load balancing instances regardless of deployment location (e.g. public cloud, private cloud, hybrid cloud)
Web Application Firewall	Provide application level security to all applications regardless of size with daily rule updates for ongoing protection
Edge Security Pack	Access to flexible authentication options, Single Sign-on, Custom Log in Forms, and LDAP, SAML features
Global Server Load Balancing	GEO is deployed in an Active-Active configuration to provide high availability, site-to-site resiliency and optimal user experience across multiple geographically distant endpoints.
LoadMaster 360 Benefit	Observability and insights into the performance, health and security of applications and delivery infrastructure.
Enhanced Web Application Firewall (WAF)	Available with LoadMaster 360, delivers improved security insights and minimizes the time required for WAF configuration and tuning.

Pooled Licensing Subscriptions

Subscriptions are annual and billed annually. Subscriptions include 24x7 support, Identity and Access (ESP), Web Application Firewall (WAF) and Global Server Load Balancing.



Pooled Model Matrix

Plan/Models	Included Applications	Max Loadmasters	Total Max Throughput	VLM-500 (Tiny)	VLM-1000 (Small)	VLM-5000 (Large)	VLM-10000 (X-Large)
Pooled-2G	10	4	2 Gb/s	✓	✓	–	–
Pooled-5G	10	10	5 Gb/s	✓	✓	–	–
Pooled-10G	20	20	10 Gb/s	✓	✓	✓	–
Pooled-20G	30	20	20 Gb/s	✓	✓	✓	✓
Pooled-50G	50	50	50 Gb/s	✓	✓	✓	✓
Pooled-100G	100	100	100 Gb/s	✓	✓	✓	✓
Pooled-200G	100	200	200 Gb/s	✓	✓	✓	✓
Pooled-300G	100	300	300 Gb/s	✓	✓	✓	✓
Pooled-400G	100	400	400 Gb/s	✓	✓	✓	✓
Pooled-500G	100	500	500 Gb/s	✓	✓	✓	✓



Try Kemp LoadMaster Free for 30 Days!
Visit www.kemptechnologies.com

About Progress

Progress (Nasdaq: PRGS) empowers organizations to achieve transformational success in the face of disruptive change. Our software enables our customers to develop, deploy and manage responsible AI-powered applications and digital experiences with agility and ease. Customers get a trusted provider in Progress, with the products, expertise and vision they need to succeed. Over 4 million developers and technologists at hundreds of thousands of enterprises depend on Progress. Learn more at www.progress.com

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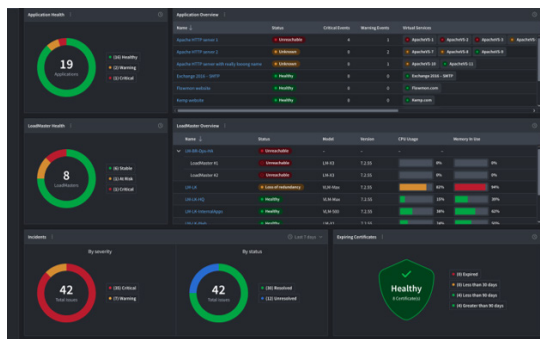
Insights and Observability for Your Applications and LoadMasters

OVERVIEW

Unmatched Simplicity, Flexibility and Value

Progress LoadMaster 360 provides organizations of all sizes with the insights and analytics necessary to validate that applications are performing as expected to deliver the best possible user application experience. Working across cloud, virtual and hardware environments, LoadMaster 360 is the unified dashboard for observing application delivery performance, security and configuration.

What Can You Do with LoadMaster 360?

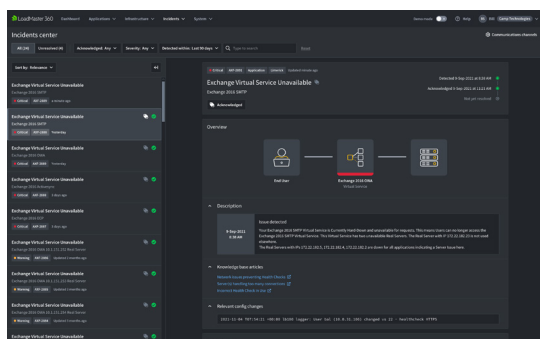


Application Analytics and Telemetry

Access in-depth dashboards to monitor application performance, health and security, including live and historical insights. With customizable views, application owners can fully utilize the required insights for their specific NetOps and SecOps roles.

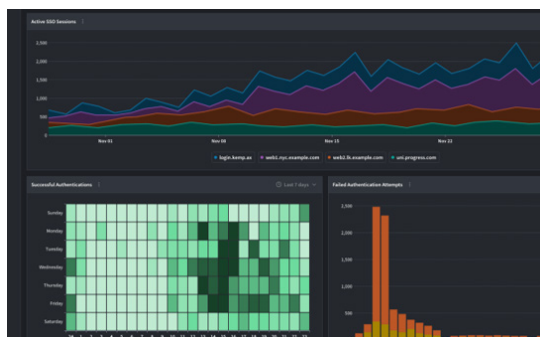
Certificate Lifecycle Management

Gain insights into your certificate estate and prevent outages by receiving notifications on expiring certificates. Provide operations and security teams with a single point of control for certificate management across cloud and on-premise infrastructure.



Application Delivery Incident Management

The Incident Center assists with the identification of application trends and behaviors. Early detection of application and security trends and the ability to review behaviors over time can help you better address issues and minimize user impact. Avoid alert fatigue and the challenges of root-cause analysis and remediation with context-rich guidance.



Authentication Management

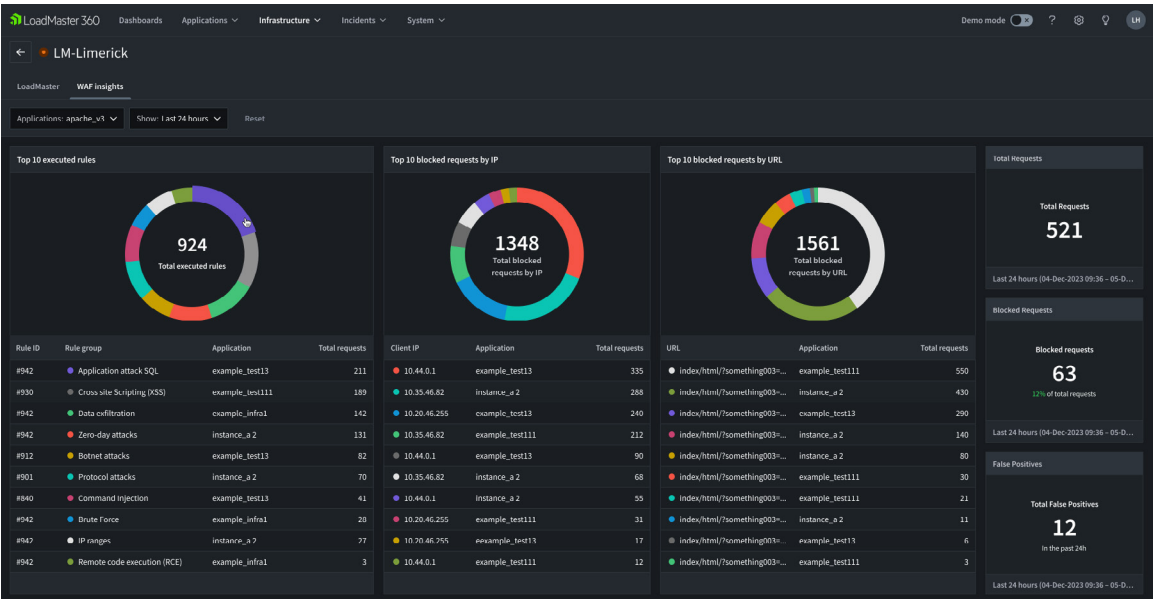
This unified view of authentication efforts across all applications and authentication providers, like Active Directory, reduces the complexity of your security analysis.

Easily identify and remediate security and authentication issues against each domain. Access color-coded graphs, heat maps and drill-down analytics that display active SSO sessions and successful and failed cross-platform login attempts.

Web Application Firewall (WAF) Tuning and Monitoring

Security Monitoring: The new Enhanced WAF feature helps generate security insights across your environments on an application-by-application basis. Quickly identify details that include blocked requests, attack types, event origin and false positive activity.

Advanced Tuning: Enhanced WAF also helps to minimize the time required for LoadMaster WAF configuration through its AI-driven false positive identification and smart rule tuning. You can view individual false positive events, examine the activity from intelligently parsed logs and configure rule exclusions to properly tune your ruleset to allow only legitimate traffic.



The Benefits of LoadMaster 360

Improve Application Availability

Provides insight on delivery metrics and status that are key to maintaining application availability, health and performance.

Simplify Fleet Monitoring

Integrates all cloud and on-premises application delivery management into a consolidated view for total visibility, no matter where your LoadMasters are located.

Accelerate Issue Resolution

Accelerates root cause analysis and reduces alert fatigue and time to resolution through issue alerting with in-context guidance.

Broaden Your Application Security

Displays application security data in a highly detailed and visual format. Drill-downs help you quickly identify the who, when and where of potential security issues.

Learn More About LoadMaster 360
Visit <https://kemp.ax/products/loadmaster-360>

Virtual LoadMaster® Datasheet

DATA SHEET

Cloud & Virtual Application Delivery

Progress Kemp LoadMaster is a fully featured load balancer and application delivery controller (ADC) that supports all the major application workloads with easy-to-use templates. It offers key features such as SSL offload along with advanced authentication and traffic delivery options.

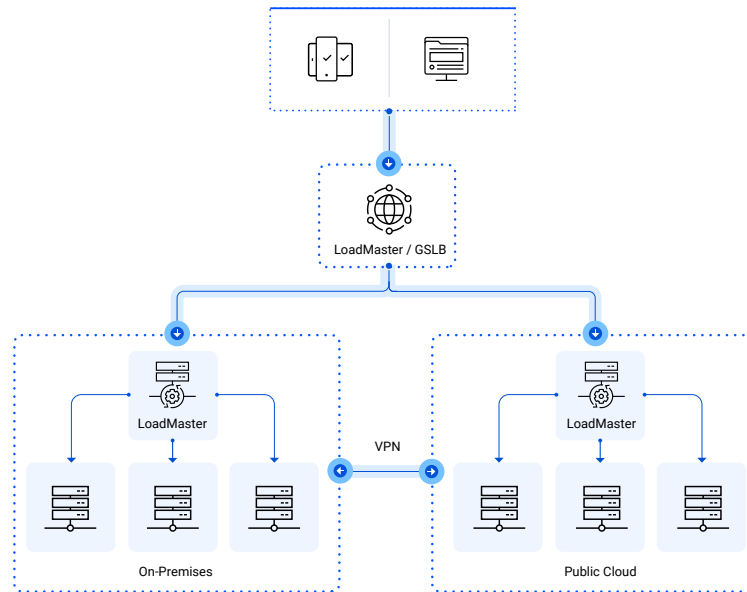


FIGURE 1- LOADMASTER HYBRID TOPOLOGY

Deliver Anywhere

Virtual LoadMaster (VLM) instances can be deployed on all major hypervisors and on leading public cloud services with a consistent set of features regardless of where deployed. Consistency across a wide range of platforms greatly simplifies cloud migration and hybrid cloud deployments with seamless migration and reduced management complexity.

Flexible Licensing

Virtual LoadMaster can be licensed using permanent subscription licenses on each instance. A more flexible and scalable option we have called Pooled allows license mobility and dynamic growth options. Pooled licensing provides the flexibility to deploy and retire load balancing resources on-demand, greatly simplifying DevOps environments and application scaling.

Easily Managed

Progress LoadMaster 360 provides organizations of all sizes with the insights necessary to ensure that applications perform as expected and to deliver the best user experience. As a cloud service, it provides a unified, customizable dashboard for observing application delivery performance, security and actionable insights in relation to your LoadMaster workloads. With a focus on the applications you are load balancing, LoadMaster 360 also delivers specialized insights for each LoadMaster in your fleet.

Support Subscriptions

LoadMaster support subscriptions offer flexibility, simplicity and value to meet your application delivery requirements and challenges. Support subscriptions are annual and can be upgraded and downgraded as application delivery demands change for maximum flexibility. The tiers are mapped to common customer challenges and requirements, simplifying the task of selecting the appropriate feature set and support levels.

LoadMaster annual subscriptions (VLM-1G and VLM-5G) and cloud (AWS & Azure) pay-as-you-go include Enterprise Plus support subscription.

LoadMaster Support Subscription Tiers

Each subscription tier adds to the features and services delivered by lower tiers as follows:

Standard support	Enterprise support	Enterprise Plus support
10x5 Customer Support	24x7x365 Customer Support	24x7x365 Customer Support
Software Updates	Software Updates	Software Updates
Security Patches	Security Patches	Security Patches
L4-L7 Application Delivery	L4-L7 Application Delivery	L4-L7 Application Delivery
Network Telemetry	Network Telemetry	Network Telemetry
Intrusion Prevention	Intrusion Prevention	Intrusion Prevention
	Edge Security Pack	Edge Security Pack
		Web Application Firewall (WAF) with updated reputation data daily
		GSLB with updated reputation data daily
		Floating License

Features

Network Telemetry

- Export network flow data to Flowmon Collector in the industry standard IPFIX protocol format.
- Leverage the power of Flowmon Collector to store and analyze flow data, gaining visibility into the entire application value delivery chain to identify bottlenecks, misconfigurations, and potential security issues.
- Combine LoadMaster-exported data with IPFIX data from other network nodes on Collector to gain a complete picture of your infrastructure.
- View LoadMaster data on Flowmon Collector in dashboards and widgets specific to LoadMaster and the Virtual Services defined on it.

Web Application Firewall (WAF)

- Real-time application threat mitigation
- Updated reputation data daily
- Threats mitigated
 - Cookie tampering
 - Cross site request forgery
 - Cross site scripting
 - Data loss prevention
 - SQL injection
- PCI-DSS Section 6.6 compliance

Edge Security Pack

- Microsoft TMG replacement
- Pre-authentication
- Multi-domain authentication & SSO
- X.509 client certificate authentication
- Custom login forms
- Two-factor authentication
- OIDC, SAML, Active Directory, RADIUS & LDAP
- Forms to Forms based authentication

Intrusion Prevention

- Snort compatible IPS
- Allow/Deny IP by address
(Global and per VS)

Global Server Load Balancing (GSLB)

Scheduling and Balancing

- Round Robin
- Weighted Round Robin
- Chained Failover (Fixed Weighting)
- Regional
- Real Server Load
- Location Based
- Scale to 256 nodes per FQDN
- Use EDNS to direct client traffic

Security

- Allow/Deny List (Access Control List)
- Updated reputation data daily
- DDoS mitigation

Health Checking & Failover

- ICMP health checking of server farm machines
- Layer 4 TCP checking
- HTTP/HTTPS health check
- Active/Active High Availability

L4-L7 Application Delivery

General

- Server Load Balancing (SLB) for TCP/UDP based protocols
- TLS (SSL) Offload
- Layer 7 Content Switching
- Transparent caching for HTTP/HTTPS
- Compression of static and dynamic HTTP/HTTPS content
- HTTP/2 Support

- Up to 1000 total Virtual Services and SubVSs
- Up to 1000 total Real Server IP addresses
- Unlimited assignment of IP:port combinations to VSs and Sub VSs
- NAT-based forwarding
- Support for Direct Server Return (DSR) configurations
- Configurable S-NAT support
- VLAN Trunking (802.1Q)
- Link interface bonding (802.3ad)
- IPv6 Ready certified
- IPv6 support for addressing and features
- IPv6 to IPv4 gateway/proxy using a NIST IPv6 Ready network stack

Health Checking

- Aggregated health checks
- ICMP health checking
- Layer 7 checking against any target server port
- Active/Hot Standby configurations for High
- Availability
- Stateful Failover
- Scale-out Clustering

Session Persistence

- Source IP (L4)
- TLS (SSL) SessionID (L4)
- HTTP/HTTPS Browser-session (L7)
- HTTP/HTTPS WebClient-session (L7)
- RDP Login ID (L7)
- Port Following for mixed HTTP/HTTPS sessions
- Session reconnection for Microsoft RDS

Scheduling and Balancing Methods

- Round Robin
- Weighted Round Robin
- Least Connection
- Weighted Least Connection
- Agent-based Adaptive
- Chained Failover (Fixed Weighting)

- Source-IP Hash
- Layer 7 Content Switching
- Global Server Load Balancing (GSLB)
- AD Group based traffic steering

SSL/TLS Features

- Configurable TLS (1.0, 1.1, 1.2, 1.3) and SSL (2.0, 3.0)
- Support for EV (Extended Validation) certificates
- OCSP certificate validation
- Server Name Identification (SNI) support
- Support for up to 1,000 TLS (SSL) certificates
- Automated TLS (SSL) certificate chaining
- Certificate Signing Request (CSR) generation
- FIPS 140-2 Level 1
- STARTTLS mail protocols (POP3, SMTP, IMAP)

Administration

- Change auditing
- Web User Interface (WUI)
- SSH & physical console
- RESTful and PowerShell APIs
- VMware vRealize Orchestrator
- Context based help (WUI)
- Real time display of performance and availability
- Application templates
- Remote syslog support
- Automated configuration backup
- Selective restore of configuration
- Connection draining
- Comprehensive logging and reporting
- SNMP support
- Diagnostic shell with in-line tcpdump

Security

- Common Criteria (ISO/IEC 15408) Certified
- Allow/Deny List (Access Control List)
- IP address filtering
- IPsec Tunnel support
- DDoS mitigation, including L7 rate-based attacks
- IPSec VPN to Azure, AWS, and public clouds
- Authenticated NTP

LoadMaster 360

- Application analytics and telemetry
- Incident management
- Certificate lifecycle management
- Enhanced Web Application Firewall (WAF)
- LoadMaster License Management and Repository
- Advanced User Insights

Perpetual Licensing

Perpetual licenses are available across all cloud and hypervisor platforms. Apply a support subscription to a perpetual license to define the support level and features enabled.

	VLM-1G	VLM-5G	VLM-MAX	VLM-GEO
Public Cloud and Hypervisor	✓	✓	✓	✓

Pooled Licensing

Pooled Licensing is a yearly subscription allowing the overall pool capacity to be licensed dynamically to LoadMaster instances. Delivered through LoadMaster 360.

Subscription Plans	2Gb	5Gb	10Gb	20Gb	50Gb
Public Cloud and Hypervisor	✓	✓	✓	✓	✓

Subscription Plans	100Gb	200Gb	300Gb	400Gb	500Gb
Public Cloud and Hypervisor	✓	✓	✓	✓	✓

Subscription Licensing

Kemp Subscription licenses for LoadMaster enable a LoadMaster to be licensed for a specific period and optionally renewed at the end of that period. This model of licensing is cost-effective for short-term or fixed-period projects or to optimize cash flow through an OpEx approach. This model is available on a limited range of virtual LoadMaster models for both Cloud and hypervisor.

	VLM-1G	VLM-5G
Public Cloud and Hypervisor	✓	✓

PAYG Licensing

PAYG (Pay-As-You-Go) licenses provide hourly usage licenses on Azure and AWS that includes platform usage and Loadmaster instance licensing. All PAYG Virtual LoadMasters include WAF and GEO (GSLB) with updated reputation data daily and Edge Security Pack as standard and do not require any additional subscription purchase.

	VLM-FREE	VLM-1G	VLM-5G	VLM-MAX
Public Cloud (Azure & AWS)	✓	✓	✓	✓

SPLA Licensing

Service Provider Licensing Agreement (SPLA) provides monthly usage licenses.

	VLM-SPLA-50	VLM-SPLA-100	VLM-SPLA-500	VLM-SPLA-3000	VLM-SPLA-GEO
Public Cloud and Hypervisor	✓	✓	✓	✓	✓

LoadMaster Platform Support

Virtual LoadMaster on Hypervisor

Virtual LoadMaster is available on Hyper-V, VMware, Nutanix, XEN, KVM and VirtualBox.

	VLM-1G	VLM-5G	VLM-MAX
Subscription Tiers Supported	All	All	All
Licensing model supported	Perpetual, Subscription	Perpetual, Subscription	Perpetual
Licensed Performance			
Load Balancer Throughput	1 Gbps	5 Gbps	Uncapped*
SSL TPS	1,000	5,000	Uncapped*
Layer 4 Concurrent Connections	3,000,000**	3,000,000**	Uncapped*
Max Servers/ Virtual Clusters	1,000/1,000	1,000/1,000	1,000/1,000

Virtual LoadMaster on Cloud

Virtual LoadMaster is available on Azure and AWS and their Government variants.

	VLM-1G	VLM-5G	VLM-MAX
Subscription Tiers Supported	All	All	All
Licensing model supported [§]	BYOL, PAYG	BYOL, PAYG	BYOL, PAYG
Licensed Performance			
Load Balancer Throughput	1 Gbps	5 Gbps	Uncapped*
SSL TPS	1,000	5,000	Uncapped*
Layer 4 Concurrent Connections	3,000,000**	3,000,000**	Uncapped*
Max Servers/ Virtual Clusters	1,000/1,000	1,000/1,000	1,000/1,000

[§] BYOL (Bring-Your-Own-License) instances are subject to cloud platform charges based on the VM size deployed.
PAYG (Pay-As-You-Go) is an hourly billing scheme that includes the Kemp license and cloud platform charges.

* Performance dependent on allocated system resources.
**Based on minimum 2GB memory configuration for a VLM

∞ All specifications are subject to change without prior notice.