



Improve the Security of Your Cloud Applications and APIs with LoadMaster

Agenda

Securing web apps and APIs to protect against cyber threats

How LoadMaster offerings fit into a multi-layered defense strategy

How LoadMaster family supports WAF, Zero Trust, insights and more

Bio

Works with Loadmaster and Progress app delivery solutions

Optimizes app and API solutions for management and visibility

Helps customers support on-premises, cloud and hybrid environments



Kurt Jung
Principal Solution Engineer





Improve the Security of Your Cloud Applications and APIs with LoadMaster

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Principal Solution Engineer

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Agenda

- Overview on Progress Software
- What is LoadMaster
- Why enable security on LoadMaster
- Security Use Cases and Capabilities

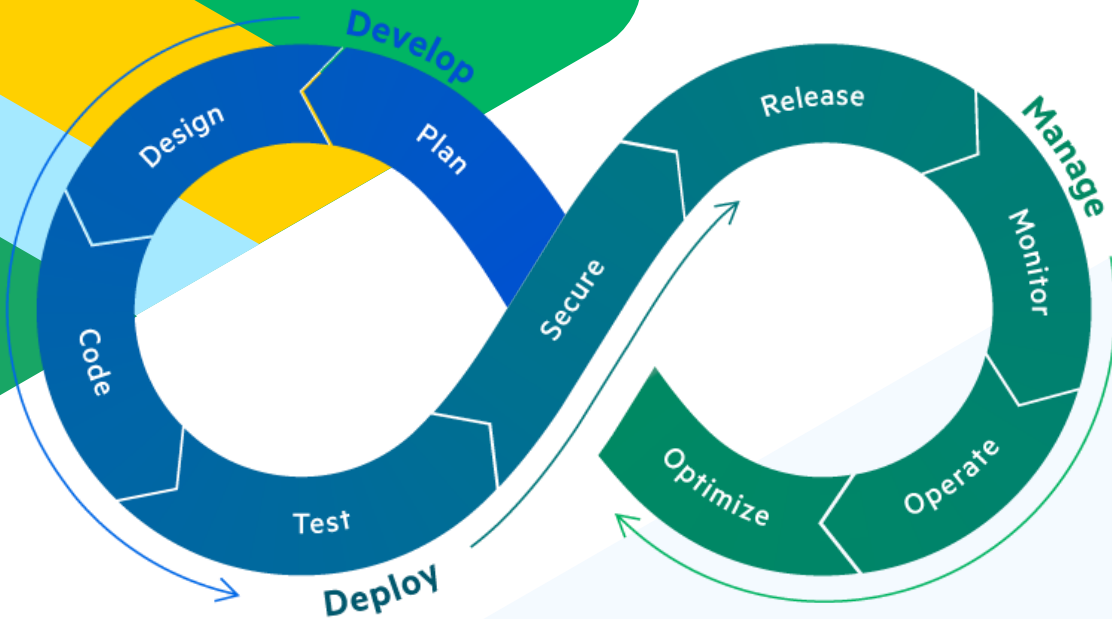
Progress
Software
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Our Vision

To propel business forward in a technology-driven world.


Our Mission


To be the trusted provider of the best products to develop, deploy and manage high-impact applications.



Innovation Across the Portfolio




 **Progress® Sitefinity®**
Cloud digital experience platform


 **Progress® OpenEdge®**
Lowest TCO app/DB platform for cloud applications

 **Progress® Chef®**
Pioneer in DevOps and DevSecOps


 **Progress® Telerik®**
Modern UI made easy—mobile, web, AR/VR, chat


 **Progress® DataDirect®**
Premier cloud, on-prem and hybrid data connectivity


 **Progress® Kemp® LoadMaster®**
Application high availability scalability and security


 **Progress® MOVEit®**
Secure, compliant cloud and mobile file transfer

 **Progress® MarkLogic®**
Simplify complex data and achieve data agility

 **Progress® WhatsUp® Gold**
End-to-end IT infrastructure monitoring for on-prem and cloud infrastructure

 **Progress® Corticon®**
Scalable, codeless rule automation at cloud's edge

 **Progress® Semaphore™**
Metadata management with semantic AI

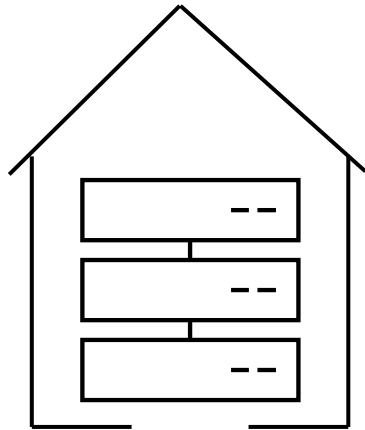
 **Progress® Flowmon®**
Comprehensive network observability, threat detection and response

LoadMaster

A high-performance Application Delivery Controller (ADC) and load balancer that enhances availability, scalability, optimization and security

What Environments Does LoadMaster Support?

On-Premises



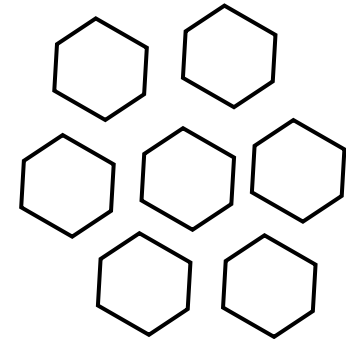
Hybrid Cloud



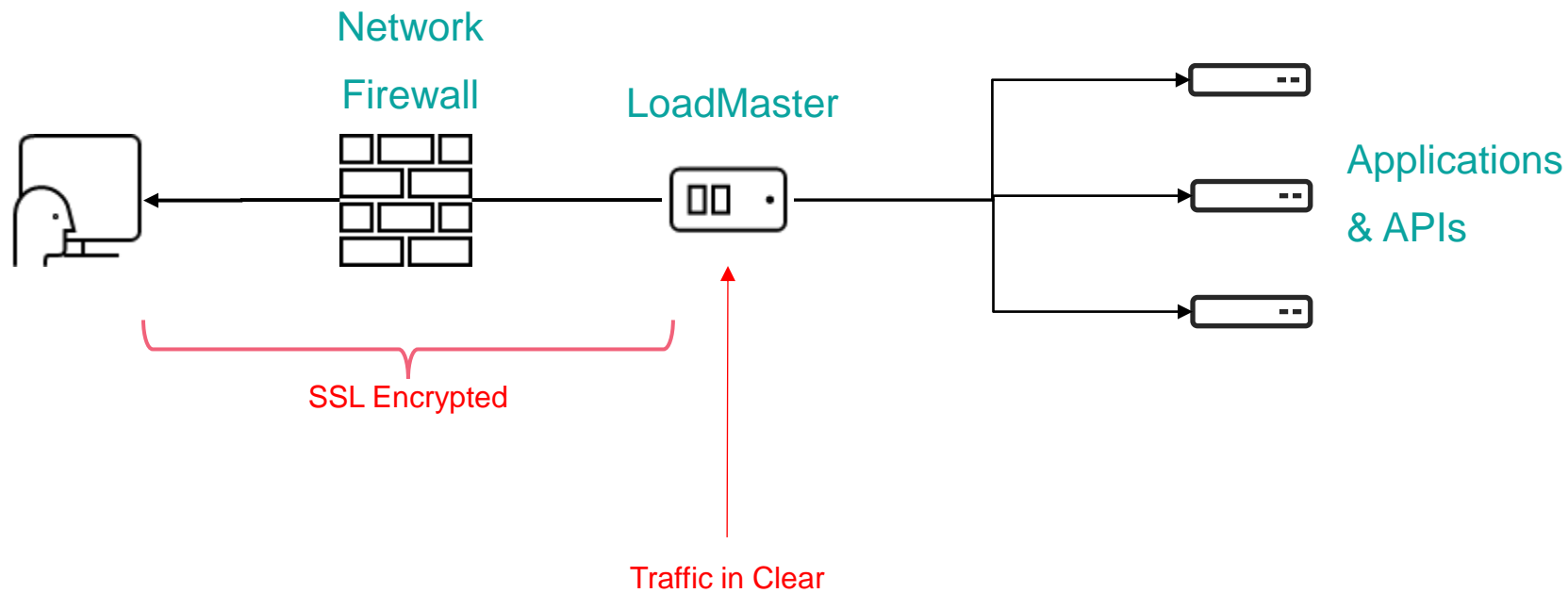
Multi Cloud



Microservices



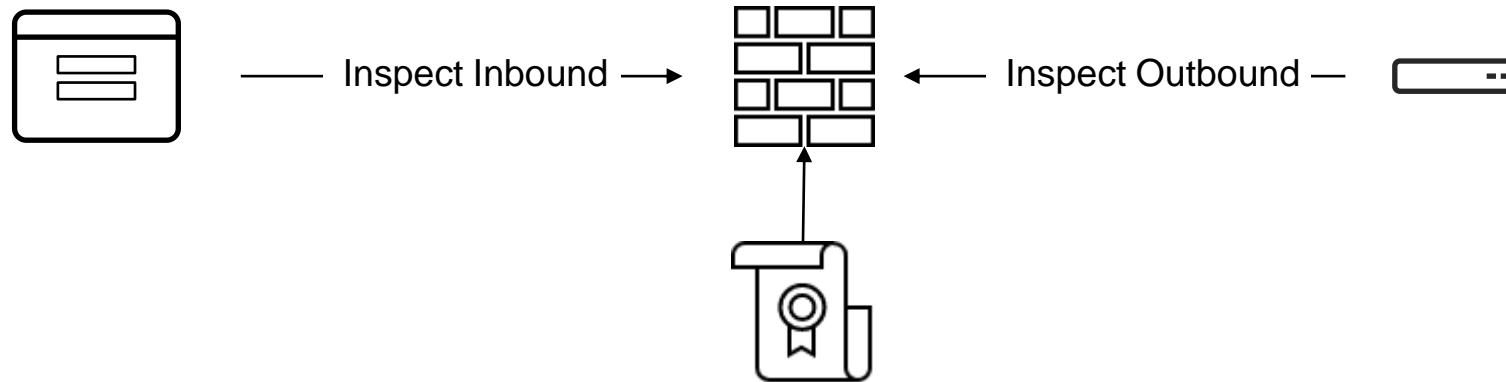
Why a Load Balancer Can Enhance Your Security Practices?





LoadMaster Security Capabilities & Use Cases

LoadMaster Web Application Firewall (WAF)



- Better protection against common web exploits and application vulnerabilities
- Includes pre-defined rules for OWASP Top 10 and many other vulnerabilities
- Customizable rules to filter application specific patterns
- Adjustable thresholds to avoid 'false positives'

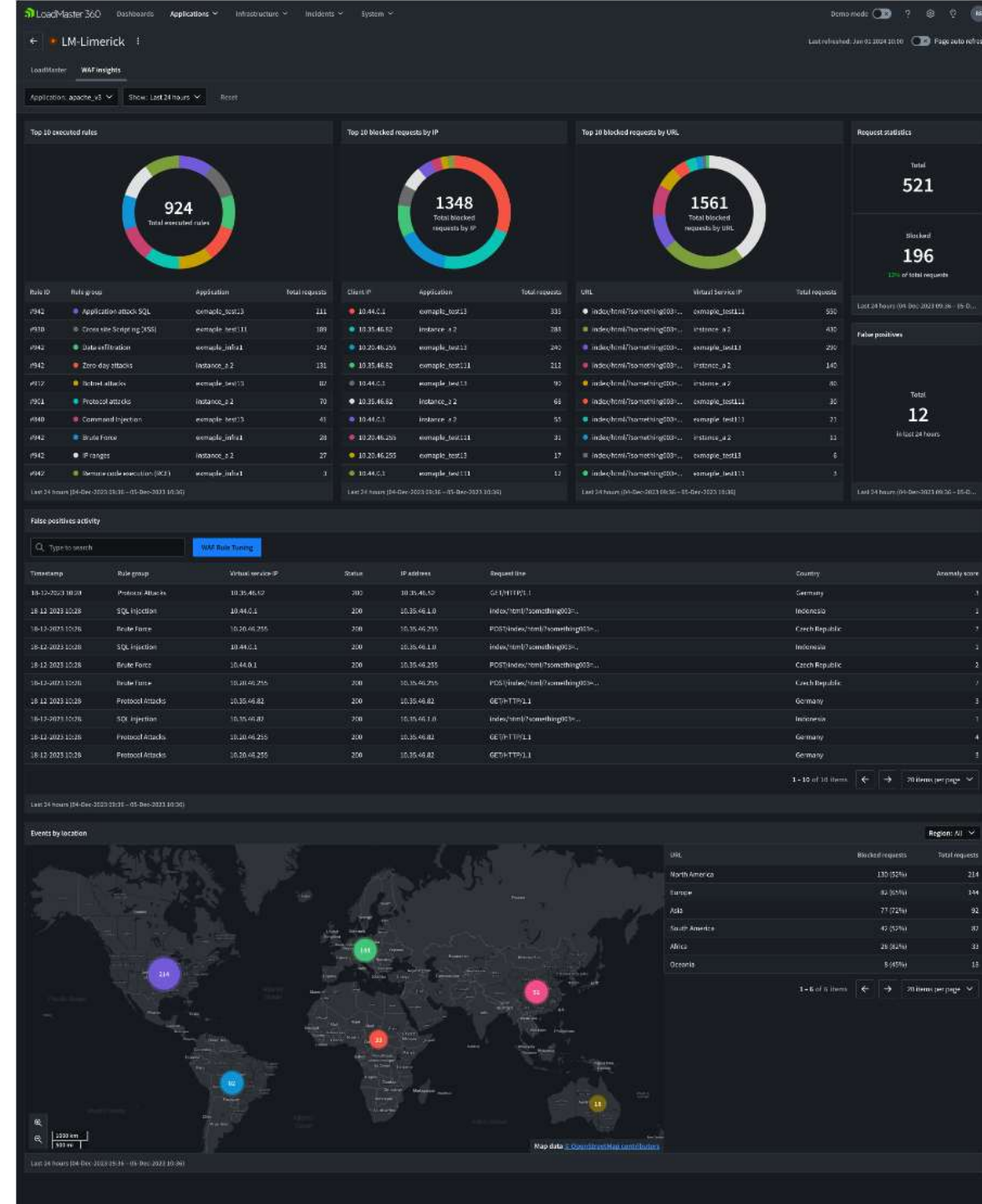


WAF: Get improved insights from LoadMaster WAF, false positive identification and WAF rule tuning

HOW: Utilizing a partnership, we have established in the OWASP/ModSec Community to build on top of their proven tooling

- Generate WAF insights across the Customer's environments on an Application-by-Application basis
- Identify False positives by parsing Logs through known attack filters removing all known attacks
- Present False Positives in an easy-to-understand format
- Provide the ability to generate Custom Rules while advising users on the appropriate actions

WHEN: H1 2024



IP Reputation – Block at the Network

- IP Reputation List – A list of bad-actor IP addresses provided by Progress
- Customer defined blocked IP addresses & Subnets
- Block a whole country



The screenshot shows a web interface titled "Countries to block". It features a list of countries with checkboxes next to them. A "Select All" button is located above the list. To the right of the list, there is a button labeled "Set Excluded Countries" and a status indicator that says "0 Countries currently blocked".

Country	Selected
<input type="checkbox"/> Afghanistan	
<input type="checkbox"/> Albania	
<input type="checkbox"/> Algeria	
<input type="checkbox"/> American Samoa	
<input type="checkbox"/> Andorra	
<input type="checkbox"/> Angola	
<input type="checkbox"/> Anguilla	
<input type="checkbox"/> Antigua	

Rate Limiting - Limiting Traffic



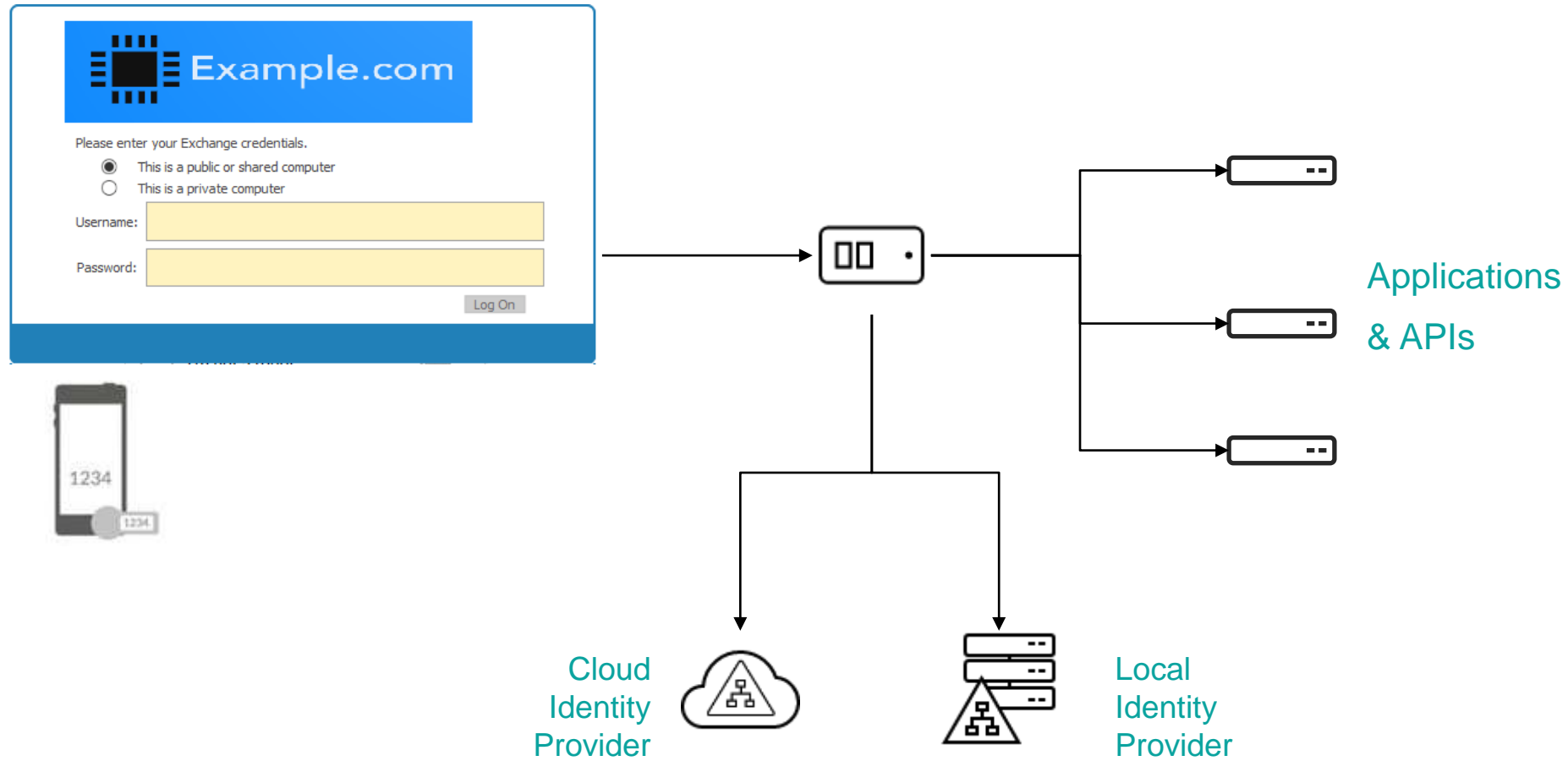
Maximum concurrent connections

Maximum connections/sec

Maximum requests/sec

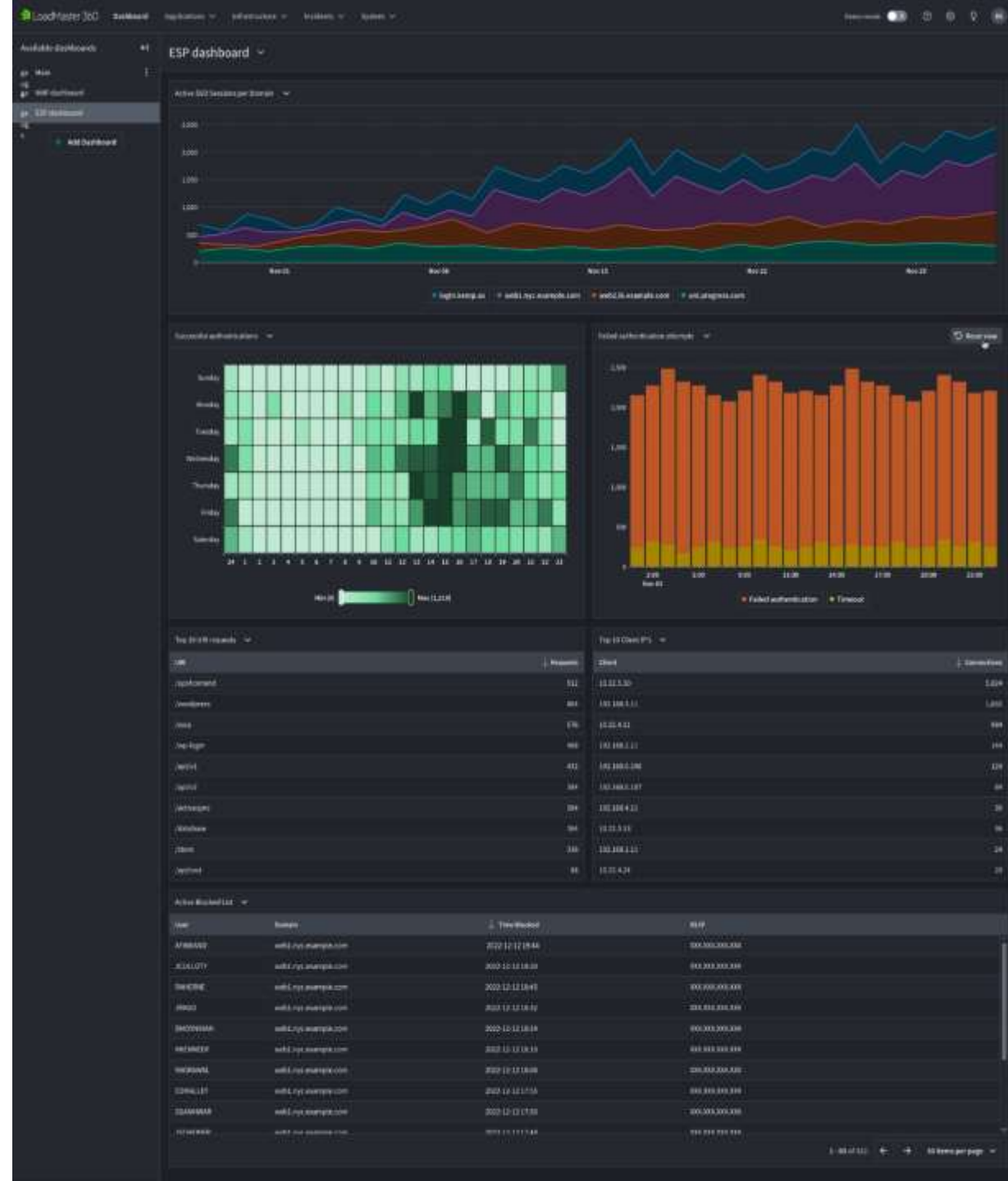
Bandwidth Limits

Pre-Authentication



Application Security Insights

- Certificate Insights
- Active SSO Sessions
- Successful Authentication Heatmap
- Failed Authentication
- Active Authentication Blocked List
- Top 10 URI's
- Top 10 Client IP's



SSL Policy & Certificate Lifecycle Management

Cipher Set **BestPractices** ▼ **Modify Cipher Set**

Assigned Ciphers

Ciphers

- ECDHE-ECDSA-AES256-GCM-SHA384 ▲
- DHE-DSS-AES256-GCM-SHA384
- ECDHE-RSA-AES256-GCM-SHA384
- DHE-RSA-AES256-GCM-SHA384
- ECDHE-RSA-AES256-SHA384
- ECDHE-ECDSA-AES256-SHA384 ▼

Set Let's Encrypt Directory URL

Directory URL **Set Directory URL**

Register Let's Encrypt Account

Email Address (optional) **Register Account**

Fetch Let's Encrypt Account

Account Key File **Choose File** No file chosen

Pass Phrase **Upload Account Key**

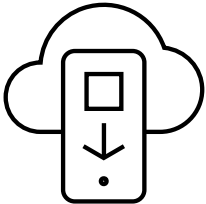
Delete Back

Content Rules – Zero Trust Access Gateway

Access Policy

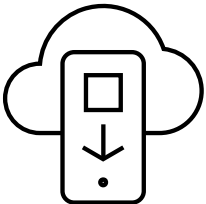
WHO	WHAT	WHERE
10.110.100.6/24	GET	Bucket1
192.168.99.32/24	GET / DELETE	Bucket1
172.16.99.44/24	GET / PUT DELETE	Bucket1

10.110.100.6/24 - SecureZone 1 (Least Secure)



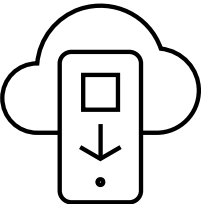
GET https://s3.progress.com/bucket1

192.168.99.32/24 - SecureZone 2

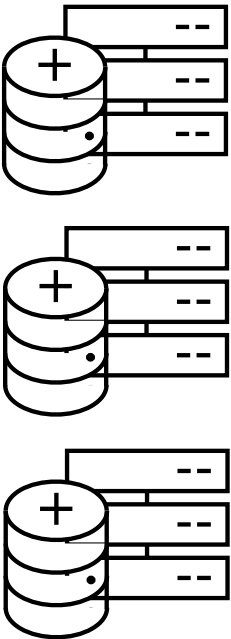
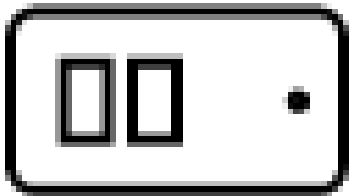


DELETE https://s3.progress.com /bucket1

172.16.99.44/24 - SecureZone 3 (Most Secure)



PUT https://s3.progress.com /bucket1



LoadMaster

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Get Started with LoadMaster and LoadMaster 360

Progress Kemp LoadMaster 30-day Free Trial

<https://kemptechnologies.com/load-balancer>

Request a Demo of LoadMaster 360 - Managed Application
Delivery and Security

<https://kemptechnologies.com/products/loadmaster-360>

Thank You



Q&A

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Learn About Loadmaster Azure Test Drive

<https://query.prod.cms.rt.microsoft.com/cms/api/am/binary/RW14y7K>

Request a Demo of LoadMaster 360 - Managed Application Delivery and Security

<https://kemptechnologies.com/products/loadmaster-360>



Deliver Highly Available, Highly Secure Applications
<https://kemptechnologies.com/>

LoadMaster Resources

Progress Kemp Resources Library

<https://kemptechnologies.com/resources>

- Case Studies
- Datasheets
- Research
- Solution Briefs

Overview: Progress Kemp LoadMaster

https://d34smkdb128qfi.cloudfront.net/docs/kemptechnologieslibraries/loadmaster/loadmaster-overview.pdf?sfvrsn=3d630b47_24

LoadMaster 360: Simplifying Your LoadMaster Management

<https://kemptechnologies.com/blog/loadmaster-360-simplifying-your-loadmaster-management>

Popular Resources

2024 Buyer's Guide to Load Balancing Solutions

<https://kemptechnologies.com/resources/research-papers/load-balancing-buyers-guide>

EMA Report, How to Succeed with Load Balancing in a Hybrid Multi-Cloud World

<https://kemptechnologies.com/campaigns/enterprise-cloud-load-balancing>

Webinar: The State of Load Balancing in 2024

<https://kemptechnologies.com/resources/webinars/the-state-of-load-balancing-in-2024>

Free Trial & More

Progress Kemp LoadMaster Free Trial

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Request a Demo: LoadMaster 360

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