

Prolexic Flow-Based Monitoring

Network-layer monitoring for early detection and notification of potential DDoS attacks



Organizations increasingly interact with customers, employees, and partners through a myriad of web and IP-based applications. Disruptions to these applications can have a serious impact on the bottom line, making them attractive targets for attackers. Whether planning for the inevitable or actively mitigating an attack, organizations need fast, simple, and effective protection from the broadest range of DDoS attacks in order to defend their online presence, maintain employee productivity, and safeguard their infrastructure.

Some of the biggest brands in the world – many of which are targeted for attack on a regular basis, trust Akamai's Web Security solutions to protect their online presence.

Akamai's Prolexic Flow-Based Monitoring provides early detection and notification of network-layer DDoS attacks by directly monitoring network traffic through your organization's edge routers. With Prolexic Flow-Based Monitoring, organizations can rely on Akamai's 24x7 security Operations Center (SOC) to detect anomalies, perform impact analyses, and proactively notify your staff of a potential DDoS attack.

How it Works

With Prolexic Flow-Based Monitoring, Akamai's 24x7 SOC monitors your edge routers to build a profile of your normal network traffic and update that profile as traffic patterns changes over time. Drawing on that knowledge, SOC staff can immediately identify significant deviations from your profile as they occur, analyze anomalies, and alert you of any DDoS attack.

BENEFIT TO YOUR BUSINESS

- **Reduce downtime and business risk** with early detection and notification of application-layer DDoS attacks

The screenshot displays the Prolexic PLXfbm Analytics interface. A central modal window titled "Traffic Anomaly Detected for" provides detailed information about a specific event. The background shows a table of alerts and a list of detected anomalies.

Traffic Anomaly Detected for

Event ID: 01fbmma2--netflow_ WARN-1407182400

Traffic at Alert: 150.14 Mbps
Traffic Threshold: 74.34 Mbps
202% of 74.34 Mbps

Top Source IPs	Bits/Sec	Pkts/Sec	Flows
	150.12 M	35.43 K	67.58 K
	17.20 K	68.61	1.02 K

Top Destination Ports	Bits/Sec	Pkts/Sec	Flows
443	147.18 M	33.72 K	65.54 K
80	2.93 M	1.71 K	2.05 K
2048	17.20 K	68.61	1.02 K

Top Net Protocols	Bits/Sec	Pkts/Sec	Flows
tcp	150.12 M	35.43 K	67.58 K
icmp	17.20 K	68.61	1.02 K

The background dashboard includes a "PLXfbm Alerts" table with columns for Event ID, Severity, and Status, and a main table of detected anomalies with columns for Event, FBM Version, and a refresh indicator.

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Key Capabilities

- **Network-layer DDoS detection:** Early detection and notification of volumetric network-layer DDoS attacks, including SYN floods, UDP floods, and ICMP floods
- **Non-intrusive network monitoring:** Directly monitor your Internet edge routers to avoid the need for additional hardware in the traffic flow and minimize any potential impact to services. View historical traffic levels for specified IP ranges.
- **24x7 Security Operations Center:** Akamai continuously monitors your network traffic, analyze anomalies, and alert you of DDoS attacks from our 24x7 SOC

The Akamai Ecosystem

Akamai makes the Internet fast, reliable and secure. Our comprehensive solutions are built on the globally distributed Akamai Intelligent Platform™, managed through the unified, customizable Luna Control Center for visibility and control, and supported by Professional Services experts who get you up and running easily and inspire innovation as your strategies evolve.



As the global leader in Content Delivery Network (CDN) services, Akamai makes the Internet fast, reliable and secure for its customers. The company's advanced web performance, mobile performance, cloud security and media delivery solutions are revolutionizing how businesses optimize consumer, enterprise and entertainment experiences for any device, anywhere. To learn how Akamai solutions and its team of Internet experts are helping businesses move faster forward, please visit www.akamai.com or blogs.akamai.com, and follow @Akamai on Twitter.

Akamai is headquartered in Cambridge, Massachusetts in the United States with operations in more than 40 offices around the world. Our services and renowned customer care enable businesses to provide an unparalleled Internet experience for their customers worldwide. Addresses, phone numbers and contact information for all locations are listed on www.akamai.com/locations.
