



LP DDoS Shield

Lightpath

powered by  radware

Why the Need for DDoS Protection?

- ▶ **DDoS attacks are increasing in size and scale**

Due to availability of large scale IoT botnets and rise in SSL encryption

- ▶ **Attacks are more sophisticated**

Attackers launching more complex attacks, such as burst, SSL floods, and application-layer attacks

- ▶ **Critical service availability is needed**

Increasing demand for service always being online, always available, and all the time

- ▶ **Increased regulation**

A requirement in multiple regulation frameworks, including DGPR, NIST, SEC regulations and others

- ▶ **Server-based vulnerabilities**

Web server, mail server, FTP server, SQL server, DNS server, SIP server

- ▶ **Security expertise shortage**

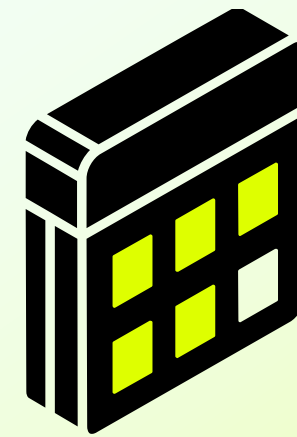
Many organizations have a shortage of security experts in-house

DDoS Attacks More Frequent, More Costly in 2023



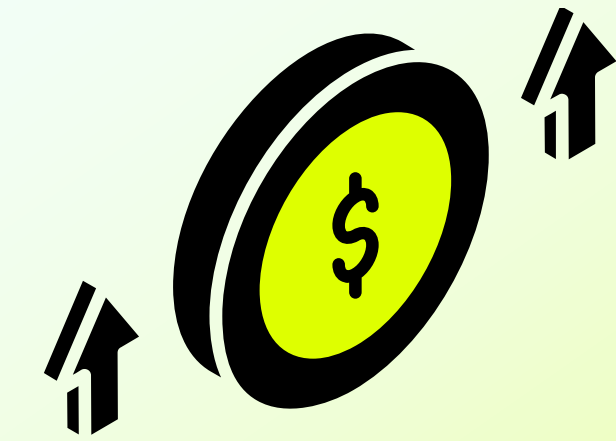
31%

Experience DDoS attacks on a *daily* or *weekly* basis



60%

Experience DDoS attacks on a *monthly* basis (or more frequently)



\$6,130

Average cost of a DDoS attack *per minute* (\$367,800 per hour)

Application Layer Attacks Grow On Top of Network Attacks

Measurement of DDoS attacks is shifting from volume-based (Gbps/Tbps) to request-based (RPS)



+120%

Increase in number of DDoS attacks, 2023 vs. 2022



+60%

Increase in large attack vectors, 2023 vs. 2022

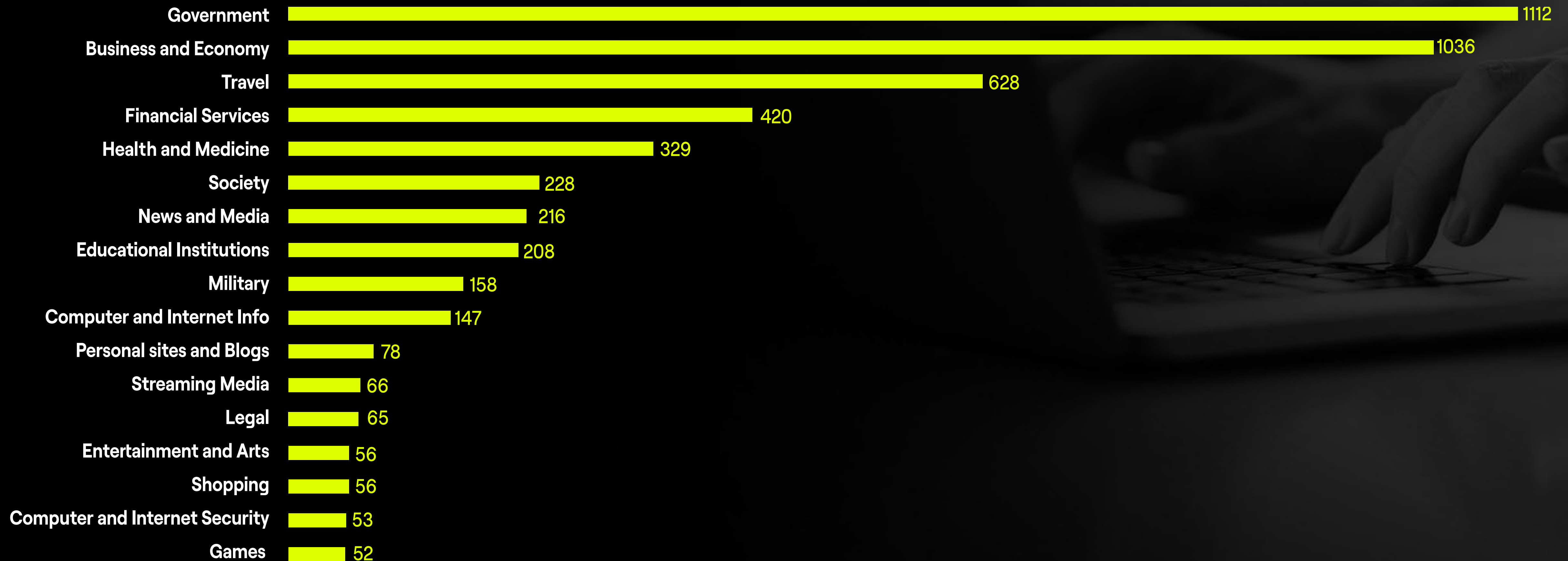


+770%

Increase in #malicious web transactions, 2023 vs 2021






Attacks by Vertical

Number of Attacks Claimed Per Web Category (50 Attacks or More)

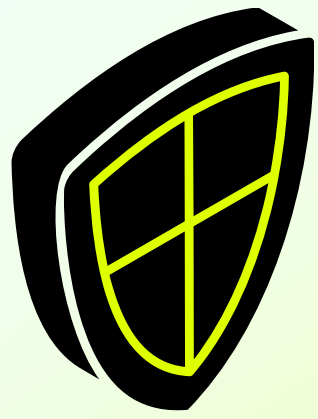


Get the Protection You Need with LP DDoS Shield

A more comprehensive DDoS protection solution that protects against multiple types of attacks with superior technology and a Customer portal for peacetime and attack-time reports and insights

-  Superior technology with threat intelligence
-  Protects against multiple types of attacks
-  Patented technology to more quickly detect and identify new types of attacks
-  Customer portal for peacetime and attack-time reports and insights
-  Superior Support/Service fully managed by security experts

The LP DDoS Shield Difference



Intelligent Security

Automated, real-time protections based on AI + ML-based algorithms that evolve as the attacks morph



Consistent Protections

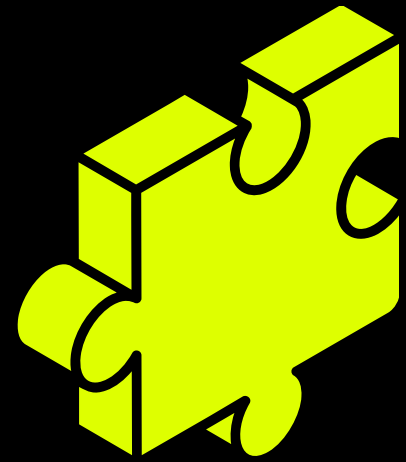
360-degree, consistent protection across all environments and entry points



Expert Defense

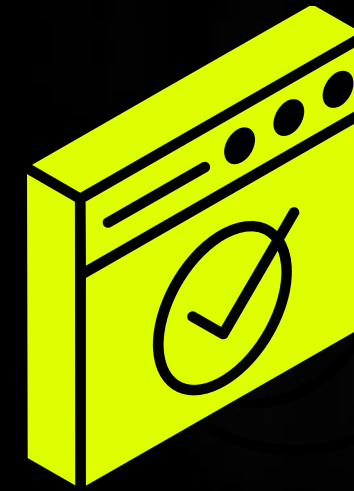
Access to security experts 24/7 during attack and in peacetime

LP DDoS Shield Has What it Takes to Stay Protected



Complete, Integrated Solution

- ▶ Wide coverage (DDoS, WAF, Bot & Web DDoS Protection)
- ▶ Across all environments



Superior Technology

- ▶ Machine learning & advanced attack protection
- ▶ Threat intelligence



Exceptional Service

- ▶ Global network & leading SLA
- ▶ Security experts & managed services

Benefits of DDoS protection from Lightpath as your Internet Service Provider

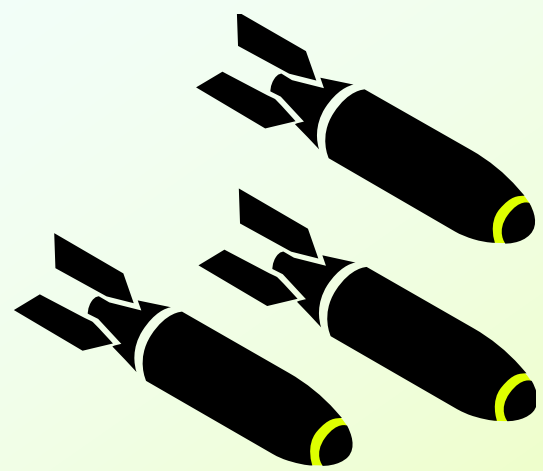
One Support team for both Dedicated Internet Access and DDoS mitigation

- ▶ Minimize the number of support calls, service tickets, teams, to engage when an issue arises

Timeliest detection and mitigation without “extra hops”

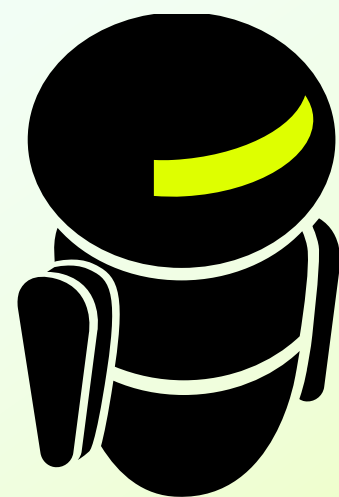
- ▶ Lightpath’s DDoS protection system is integrated with our core network. Your data does not have to be re-routed to an Internet scrubbing center during either peacetime or attack. Eliminates extra routing, which can add latency to traffic

Detection & Mitigation From Today's Most Advanced Attacks



Carpet Bombing Attacks

Amplification
& Reflection
attacks protection



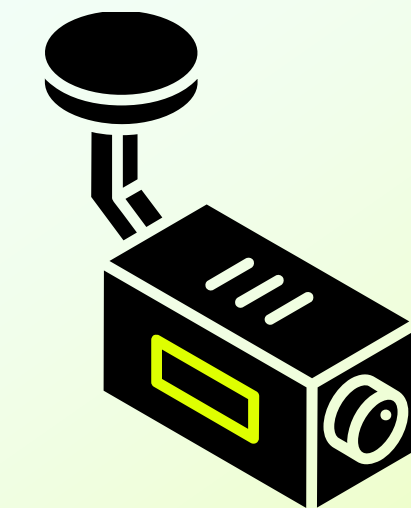
DNS Attacks

Automated
Behavioral DNS
Protection
for authoritative
& recursive DNS



Burst Attacks

Behavioral-Based
Burst attack
protection



IoT Botnets

Real-time
intelligence feed
to block active
attackers

LP DDoS Shield Robust Feature Matrix

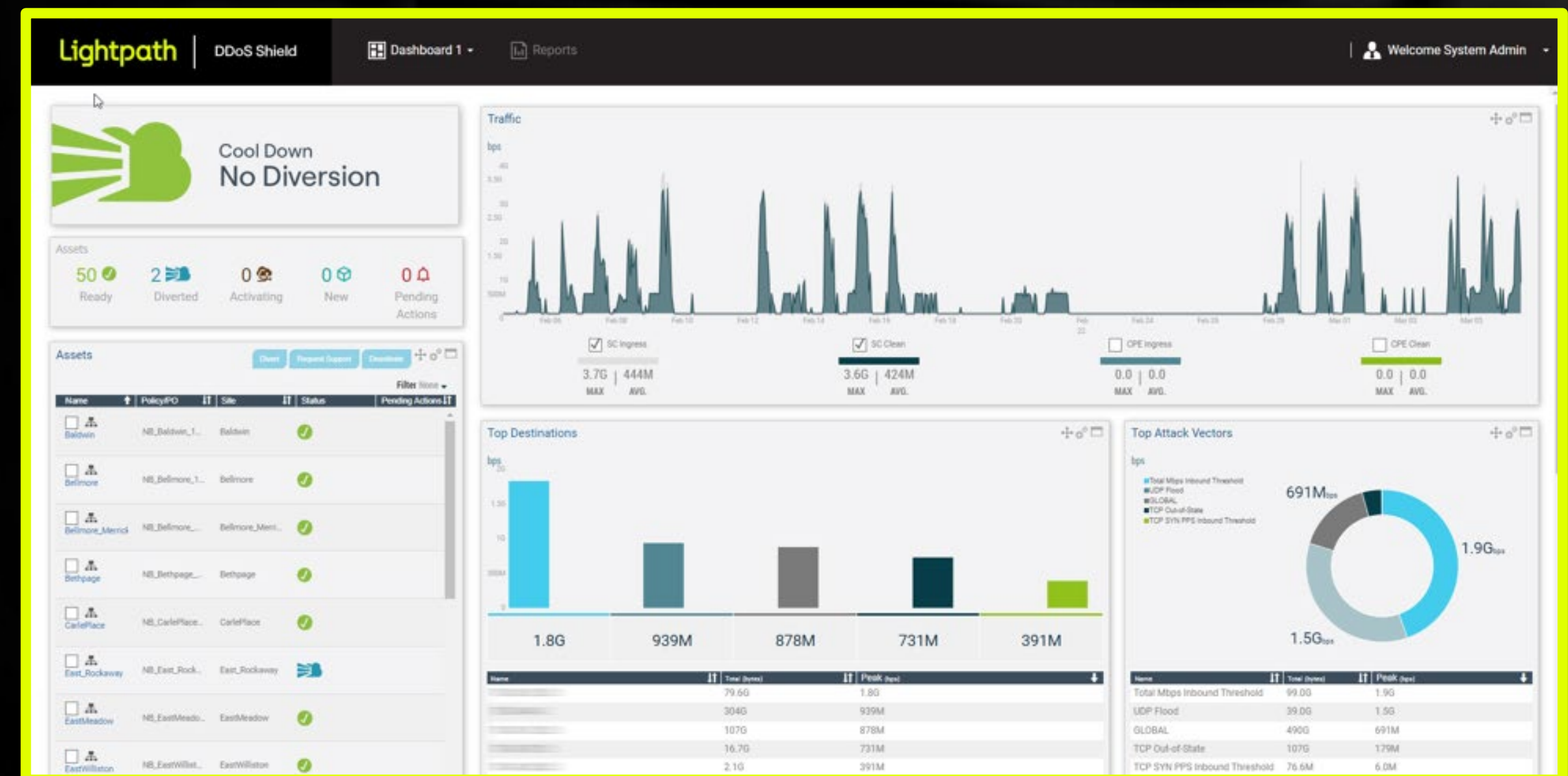
| Feature/Mitigation | LP DDoS Shield Plus | LP DDoS Shield Premier |
|---|----------------------------|-------------------------------|
| Volumetric (bps, pps) | Yes | Yes |
| Behavioral DDoS | Yes | Yes |
| Customer Portal | Yes | Yes |
| Customer Portal Tenant Admin | Yes | Yes |
| Signature Update Service | Yes | Yes |
| DNS Protection | Yes | Yes |
| Real-time Signature Creation (up to 18 seconds) | Yes | Yes |
| Signature Protection | Yes | Yes |
| Out of State Protection | Yes | Yes |
| Web DDoS Keyless (HTTPS) Protection | No | Yes |
| Low & Slow Attacks | No | Yes |
| ERT Active Attackers Feed (EAAF) | No | Yes |
| Advanced DNS Protection (i.e., DS water torture/subdomain attack) | No | Yes |
| Geolocation Filter | No | Yes |
| Policies (turned to customer's circuit and data flows) | No | Yes |
| Extended Network Analytics (via Customer Portal) | No | Yes |
| Monthly Reports sent to customer with in-depth analysis | No | Yes |

*Maximum Attack size is not exact under all circumstances, as there are many factors involved in attacks, detections, and mitigations.

Customer Portal

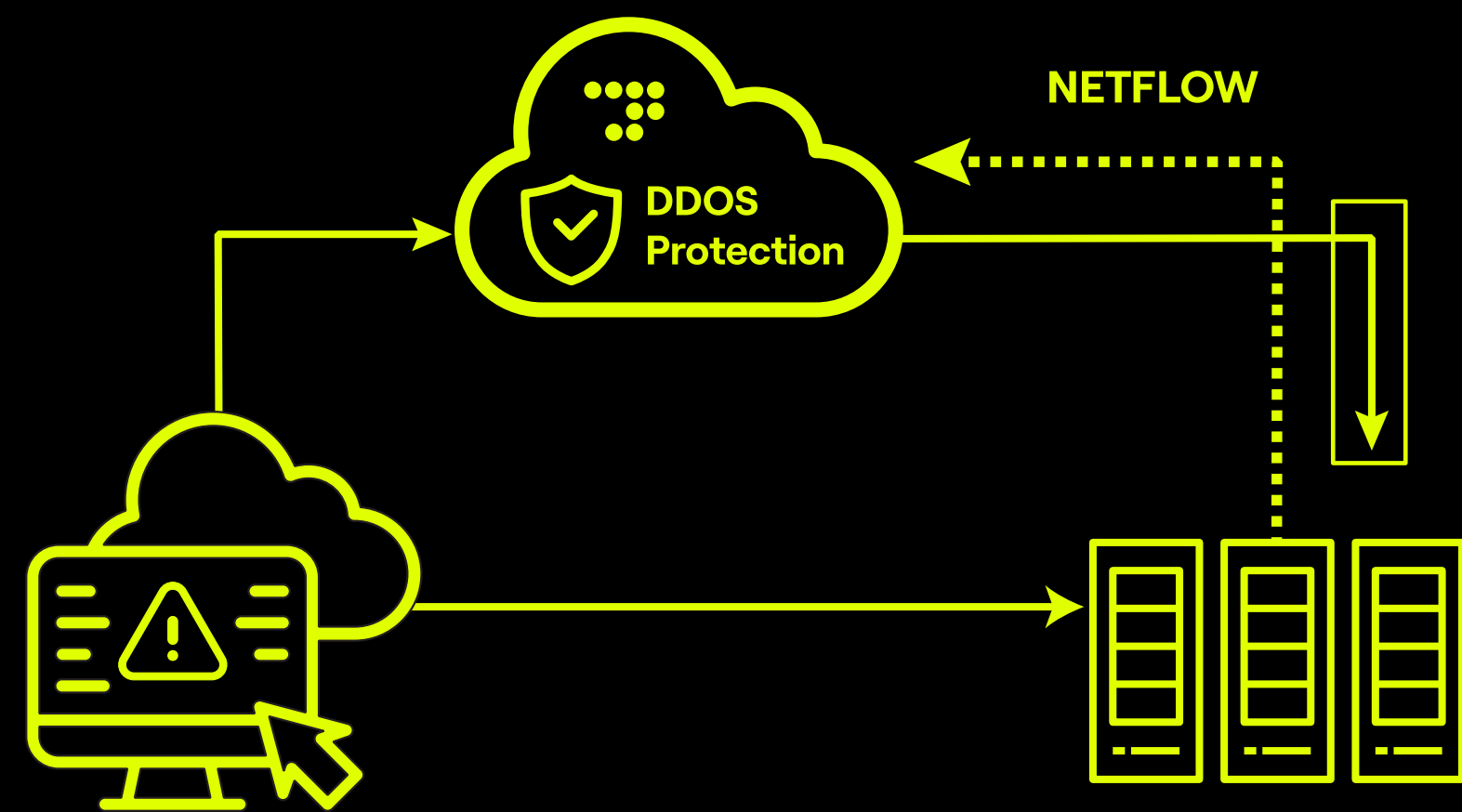
Customer Portal for both peacetime and attack-time reports and insights

- ▶ Advanced security dashboards provide unified visibility into the attack lifecycle and mitigation analysis
 - View traffic flows
 - View security status
 - When attack, get info on type of attack
- ▶ Create and download reports

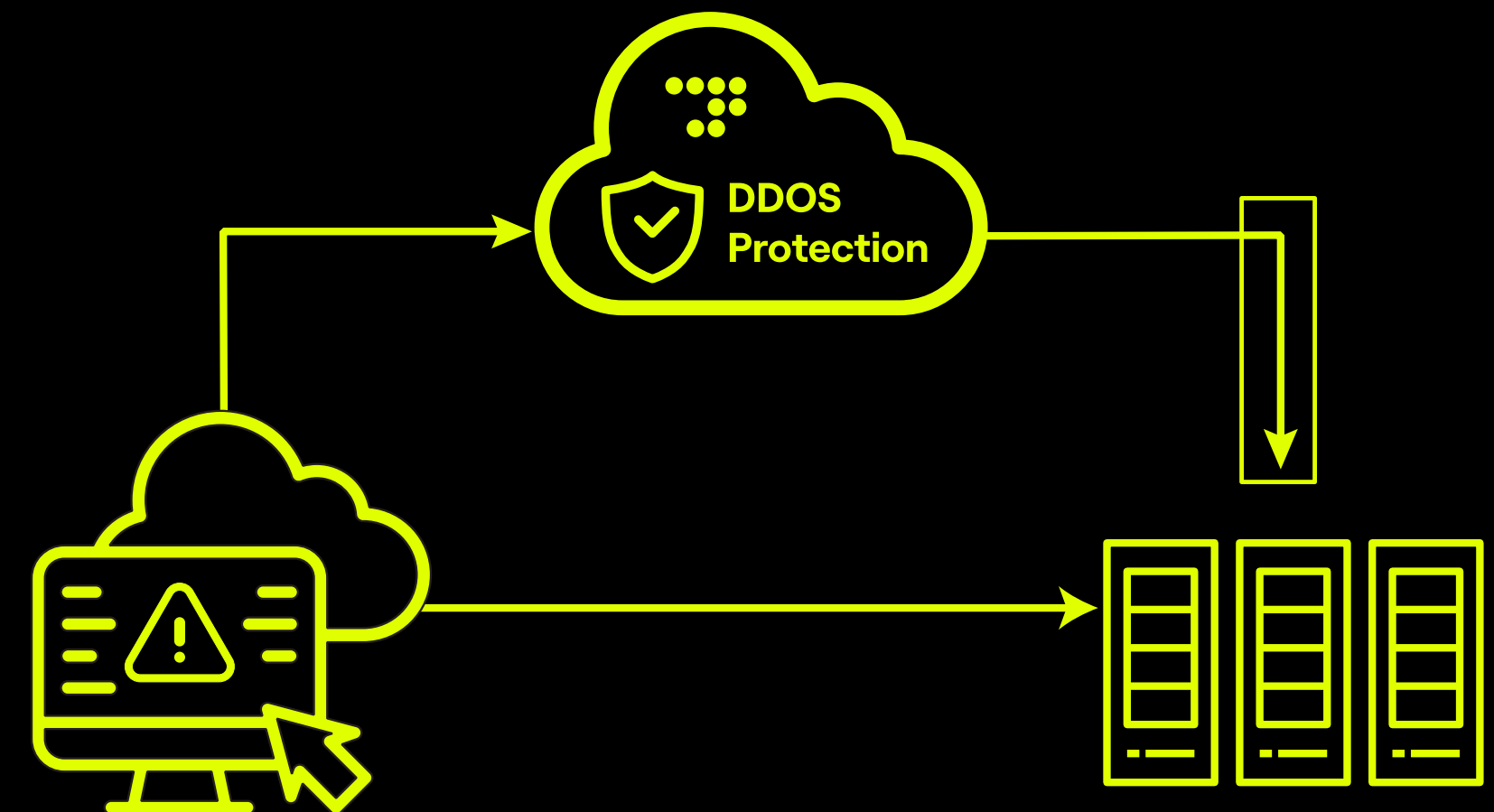


Select the Deployment that Works Best for You

LP DDoS Shield Plus On-Demand



LP DDoS Shield Premier Always-on Immediate Response





Thank you!