Prolexic Routed

Protect your entire application infrastructure against large, complex DDoS attacks

Organizations increasingly interact with customers, employees, and partners through myriad 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.
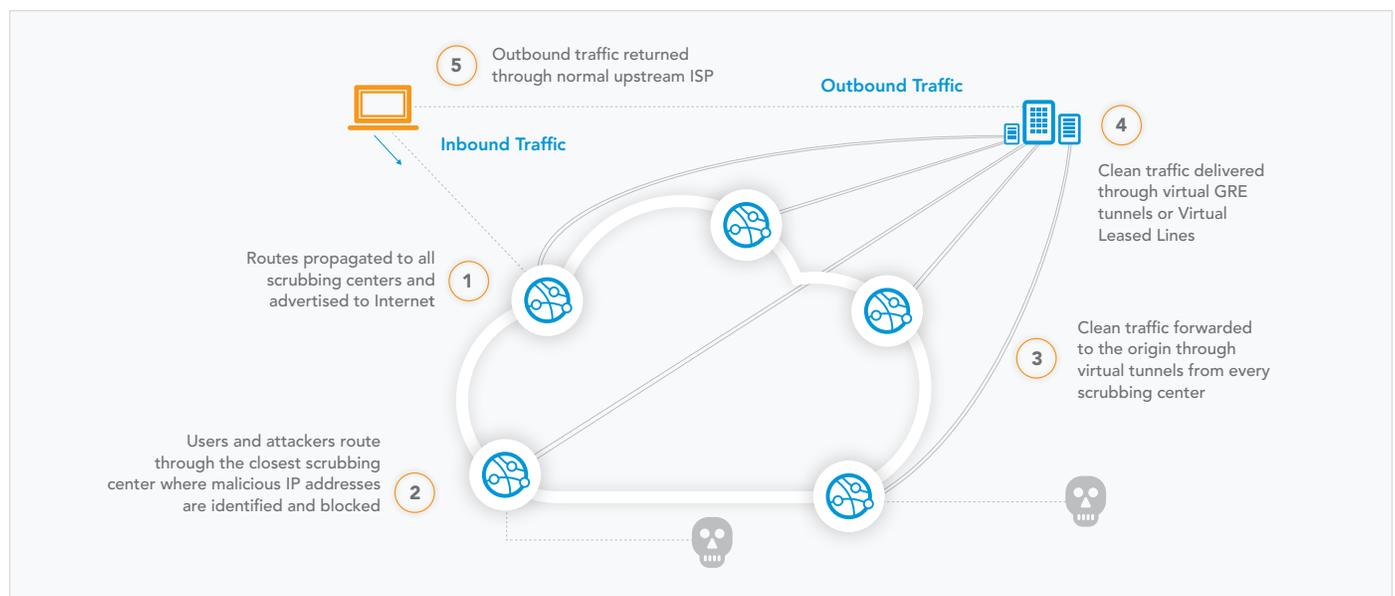
Prolexic Routed

Prolexic Routed stops attacks with a cloud-based DDoS scrubbing platform to protect your applications wherever they are deployed, whether in your data center, the public cloud, or a colocation facility. It provides comprehensive protection against the broadest range of DDoS attack types and defends against high-bandwidth sustained attacks, as well as today's complex multi-vector attacks that jump from application to application. Prolexic Routed includes proactive mitigation controls tailored to your network traffic to stop attacks instantly, backed by active mitigation performed by Akamai's 24/7 global SOCC.

How it Works

Prolexic Routed leverages the Border Gateway Protocol (BGP) to route all your network traffic through Akamai's 19 globally distributed scrubbing centers. Within each scrubbing center, proactive mitigation controls drop all abnormal traffic instantly, while Akamai SOCC staff inspects the remaining traffic, drops detected attacks, and forwards only clean traffic to the application origin. Built on a global network with 8 Tbps of dedicated capacity today, Prolexic Routed protects many of the world's largest Internet-facing organizations from the largest known and most sophisticated DDoS attacks.

BENEFITS TO YOUR BUSINESS:

- **Reduce downtime and business risk** with fast and effective mitigation of DDoS attacks backed by industry-leading time-to-mitigate SLAs.

- **Protect against the largest DDoS attacks** with the globally distributed Prolexic network and 8 Tbps of dedicated network capacity.

- **Respond to the most sophisticated attacks** with Akamai's dedicated and highly experienced SOCC staff.

- **Reduce costs associated with DDoS protection** by leveraging Akamai's globally distributed cloud security platform.

5 — Outbound traffic returned through normal upstream ISP

Outbound Traffic

Inbound Traffic

4 — Clean traffic delivered through virtual GRE tunnels or Virtual Leased Lines

1 — Routes propagated to all scrubbing centers and advertised to Internet

3 — Clean traffic forwarded to the origin through virtual tunnels from every scrubbing center

2 — Users and attackers route through the closest scrubbing center where malicious IP addresses are identified and blocked

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Key Capabilities

- **Broad DDoS attack protection —** Prolexic Routed provides organizations with dynamic protection against a broad range of potential DDoS attack types, regardless of complexity, and even as they change over the course of an attack. This includes both network-layer DDoS attacks, such as UDP and SYN floods, as well as application-layer DDoS attacks, such as HTTP GET and POST floods.

- **Protection for hundreds of applications —** By routing network traffic through Prolexic Routed, organizations can protect entire IP subnets, including all web- and IP-based applications within those subnets, any supporting network and data center infrastructure. and the network bandwidth into their data center.

- **Zero-second mitigation —** Proactive mitigation controls tailored to your network traffic can lock down your attack surface to mitigate the majority of DDoS attacks instantly in zero seconds.

- **Dedicated global network —** Akamai's Prolexic network includes 8 Tbps of dedicated network bandwidth and 19 globally distributed scrubbing centers, located in Amsterdam (Netherlands), Ashburn (USA), Chicago (USA), Dallas (USA), Frankfurt (Germany), Hong Kong (China), London (UK), Los Angeles (USA), Melbourne (Australia), Miami (USA), New York (USA), Osaka (Japan), Paris (France), San Jose (USA), Singapore (Singapore), Stockholm (Sweden), Sydney (Australia), Tokyo (Japan), and Vienna (Austria).

- **24/7 Security Operations Command Center (SOCC) —** Akamai's 24/7 SOCC provides global coverage for organizations around the world, with more than 185 SOCC staff operating across six SOCC locations. In addition to detecting and mitigating developing attacks, Akamai SOCC staff communicates and coordinates with organizations' onsite staff and troubleshoots any abnormalities.

- **Service-level agreement (SLA) —** With trained security experts highly experienced at mitigating a broad range of DDoS attacks, Prolexic Routed reduces the business risk and financial cost through its industry-leading time-to-mitigate and consistency-of mitigation SLAs.

- **Virtual tunnels —** Proprietary GRE technology establishes many-to-one virtual tunnels from every scrubbing center to improve resiliency and reliability and support higher bandwidth for clean traffic.

- **Flexible deployment options —** Prolexic Routed is offered both as an always-on service, which offers the fastest detection and mitigation capabilities, or optionally as an On Demand service, to provide organizations with flexibility in how they customize and apply DDoS mitigation.

- **DDoS monitoring (optional) —** For on-demand customers, network traffic monitoring services provide early warning of potential attacks, allowing SOCC staff to route your traffic onto Akamai's DDoS scrubbing platform and mitigate attacks faster.

- **Virtual Leased Lines (optional) —** The optional Connect module allows for Virtual Leased Lines between Akamai scrubbing centers and your data center for high bandwidth and predictable latency.

The Akamai Ecosystem

Akamai makes the Internet fast, smart, and secure. Our comprehensive solutions are built on the globally distributed Akamai Intelligent Edge 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.

Akamai *Experience the Edge*