

# Prolexic Routed

DDoS defense for protecting data center infrastructures against large, complex 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 website attacks on a regular basis — trust Akamai's Cloud Security Solutions to protect their online presence.

## Prolexic Routed

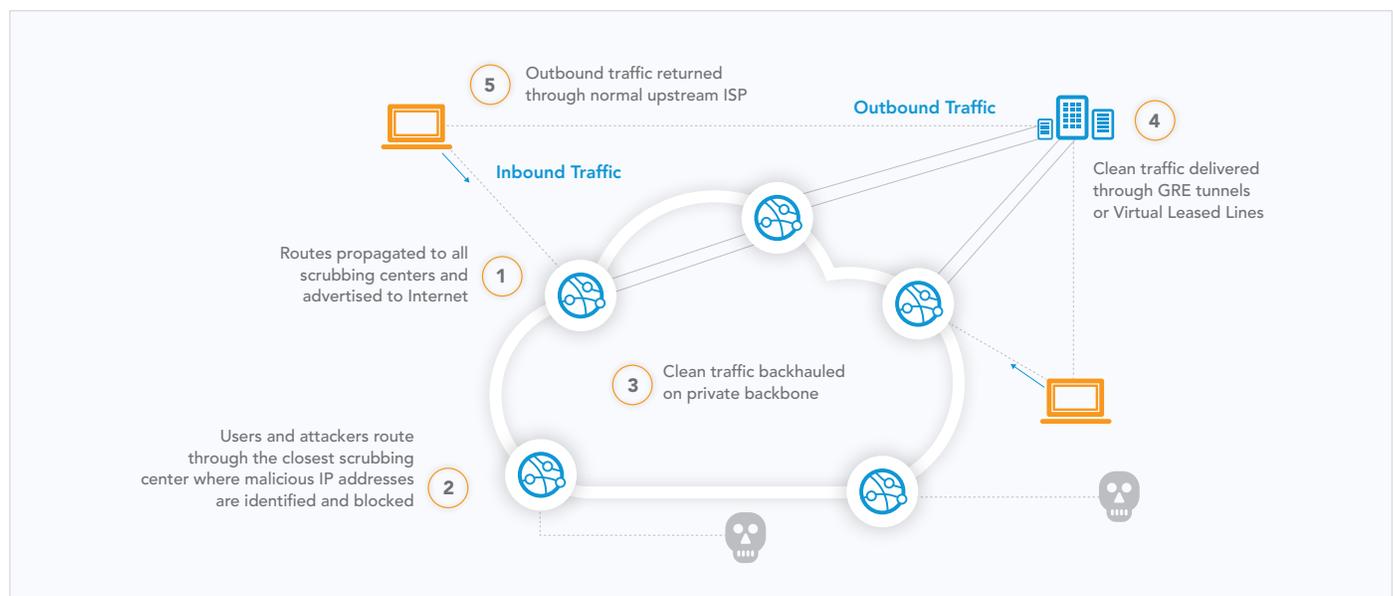
Prolexic Routed provides organizations with a simple and effective way to protect all web- and IP-based applications in their data center from the threat of DDoS attacks. Offered as a flexible and comprehensive service, Prolexic Routed stops DDoS attacks in the cloud, well before they reach the data center. It provides comprehensive protection against the broadest range of DDoS attack types and defends against today's high-bandwidth, sustained web attacks, as well as the increasing threat of potentially crippling DDoS attacks that target specific applications and services.

## How it Works

Prolexic Routed leverages the Border Gateway Protocol (BGP) to route all of an organization's network traffic through Akamai's globally distributed scrubbing centers. Within each scrubbing center, Akamai SOC staff then inspects the network traffic for potential DDoS attack vectors, drops detected attack traffic, and forwards only clean traffic to the application origin. Built on a global network with 8.0 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 8.0 Tbps of dedicated network capacity.
- Respond to the most sophisticated attacks with Akamai's dedicated and highly experienced SOC staff.
- Reduce costs associated with DDoS protection by leveraging Akamai's globally distributed cloud security platform.



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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 mitigate the majority of DDoS attacks instantly in zero seconds.
- **Dedicated global network** — Akamai's Prolexic network includes 19 globally distributed scrubbing centers with 8.0 Tbps of dedicated network bandwidth today. Scrubbing centers are 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).
- **DDoS attack support** — Prolexic Routed is a fully managed security service to help organizations respond to the threat of DDoS attacks. Akamai personnel perform real-time analysis of ongoing attacks and adapt to changing attack vectors and multi-dimensional threats.
- **24/7 Security Operations Center (SOC)** — Akamai's 24/7 SOC provides global coverage for organizations around the world, with over 150 SOC staff operating across five SOC locations. In addition to detecting and mitigating developing attacks, Akamai SOC 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.
- **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.
- **Routed Dashboard** — This is a dashboard providing real-time visibility into network traffic even as DDoS attacks are unfolding, with hundreds of metrics to help organizations understand the makeup of any DDoS attack.
- **Virtual Leased Lines (optional)** — Prolexic Connect allows for Virtual Leased Lines between Akamai scrubbing centers and your data center for high bandwidth and predictable latency.
- **DDoS monitoring (optional)** — Network-based traffic monitoring services provide early warning of potential attacks, allowing the SOC staff to respond to DDoS attacks in even less time.

### 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 secures and delivers digital experiences for the world's largest companies. Akamai's intelligent edge platform surrounds everything, from the enterprise to the cloud, so customers and their businesses can be fast, smart, and secure. Top brands globally rely on Akamai to help them realize competitive advantage through agile solutions that extend the power of their multi-cloud architectures. Akamai keeps decisions, apps and experiences closer to users than anyone — and attacks and threats far away. Akamai's portfolio of edge security, web and mobile performance, enterprise access and video delivery solutions is supported by unmatched customer service, analytics and 24/7/365 monitoring. To learn why the world's top brands trust Akamai, visit [www.akamai.com](http://www.akamai.com), [blogs.akamai.com](http://blogs.akamai.com), or [@Akamai](https://twitter.com/Akamai) on Twitter. You can find our global contact information at [www.akamai.com/locations](http://www.akamai.com/locations). Published 8/19.