Site Shield

Defends the origin by cloaking web infrastructure and reducing vulnerability

Everyone connected to an enterprise – customers, employees and partners – expects instant, secure, reliable access to a fast-growing set of cloud applications and rich content, increasingly through mobile devices. The rapid pace of online innovation and connectivity has been matched by an equally rapid increase in the scale, severity and diversity of attacks on websites and web-based applications. Responding to attacks targeting web application vulnerabilities as well as traditional Denial-of-Service (DoS) attacks will continue to challenge enterprise security in the faster forward world.

To protect websites and applications, organizations need the ability to stop attacks in the cloud and prevent attackers from reaching the application infrastructure directly.

Site Shield

Site Shield provides an additional layer of protection that helps prevent attackers from bypassing cloud-based protections and targeting the application origin. Site Shield cloaks websites and applications from the public Internet and restricts clients from directly accessing the origin. It is designed to complement the existing network infrastructure as well as advanced cloud security technologies available on the globally distributed Akamai Intelligent Platform™ to mitigate the risks associated with network- and application-layer threats that directly target the origin infrastructure.

How it Works

Site Shield provides organizations with a defined list of Akamai source addresses that are allowed to communicate with the application origin. Organizations can then whitelist the Site Shield servers and block all other incoming connections on standard HTTP and HTTPS ports (80 and 443), either at their network firewall or by working with their Internet service provider (ISP). Site Shield is designed to be deployed in conjunction with other Akamai Cloud Security Solutions, including Kona Site Defender. By restricting clients from directly accessing the origin, Site Shield forces web traffic to go through the Akamai Intelligent Platform™, where Kona Site Defender can inspect the traffic for threats and mitigate detected attacks.
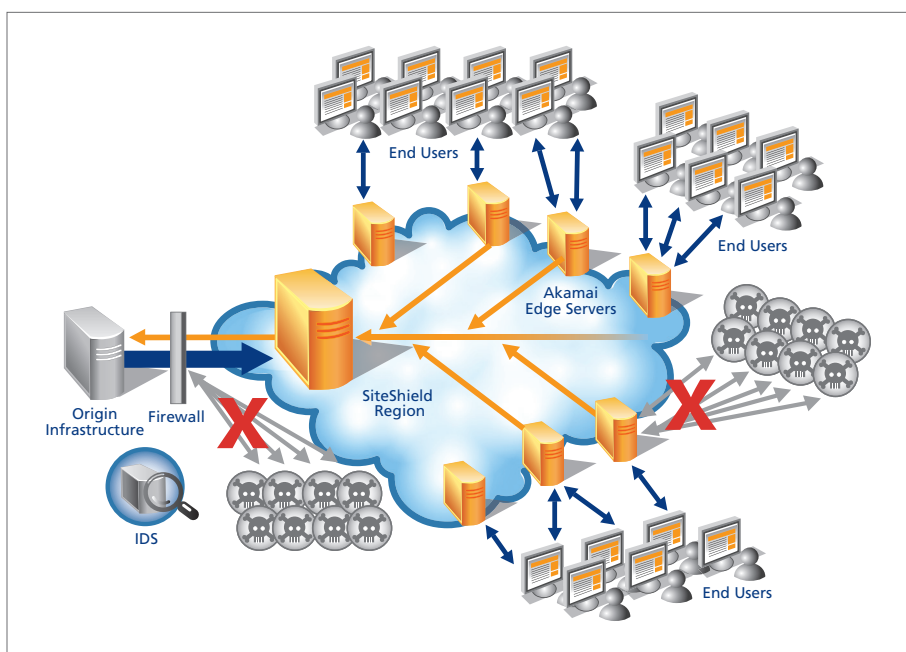
BENEFITS TO YOUR BUSINESS

- **Enhance site security and mitigate risk** by restricting direct access to the application origin

- **Gain an additional security layer** that increases the effectiveness of other Akamai cloud security technologies

- **Reduce the infrastructure costs** required to support a global user base by consolidating connections to the origin

> " Akamai guarantees that our site is always available and that our users will have as good an experience as possible.
>
> — **Stephen Schillinger,**
>   Chief of Web Services Branch,
>   U.S. Citizen and Immigration Services

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In addition, Site Shield can help protect applications from connection exhaustion at the origin. By consolidating connections through a smaller number of Akamai servers, Site Shield reduces the number of connections made to the origin. This both increases performance and reduces the impact on the origin infrastructure.

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.

> " Akamai allows us to consider doing things on our websites that were not possible before – we no longer have to worry about distribution capacity and spend less time responding to the impact of Denial of Service attacks.
>
> — **Terry Davis, Manager,** Office of the Secretary of Defense, Public Web Program

Akamai FASTER FORWARD

Akamai® is a leading provider of cloud services for delivering, optimizing and securing online content and business applications. At the core of the company's solutions is the Akamai Intelligent Platform™ providing extensive reach, coupled with unmatched reliability, security, visibility and expertise. Akamai removes the complexities of connecting the increasingly mobile world, supporting 24/7 consumer demand, and enabling enterprises to securely leverage the cloud. To learn more about how Akamai is accelerating the pace of innovation in a hyperconnected world, 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.