Edge DNS

Secure, highly available DNS at the edge

Akamai

Everyone connected to an enterprise – customers, employees, and partners – expects instant, secure, reliable access to your web applications and APIs, wherever they are, on any device. The domain name system (DNS), which translates human-readable domain names into numerical IP addresses, is a critical component in delivering quality web experiences for your website visitors and application users.

Despite its importance to website and application performance, many organizations underdeploy DNS infrastructure, often relying on just two or three DNS servers. This approach leaves them vulnerable to data center outages as well as distributed denial-of-service (DDoS) attacks.

Edge DNS

Edge DNS is a cloud-based DNS solution that provides 24/7 DNS availability, improves DNS responsiveness, and has the resilience to defend against the largest DDoS attacks. Built on a globally distributed anycast network, it can be implemented as a primary or secondary DNS service, replacing or augmenting existing DNS infrastructure as needed.

Capabilities

- **High Availability** – Leverage the Akamai Intelligent Edge Platform, with thousands of DNS servers in more than 1,000 points of presence worldwide, to provide a high level of DNS service availability. Edge DNS comes with a 100% uptime service level agreement (SLA), providing you with confidence that your customers and employees can reliably connect to your website and application servers.
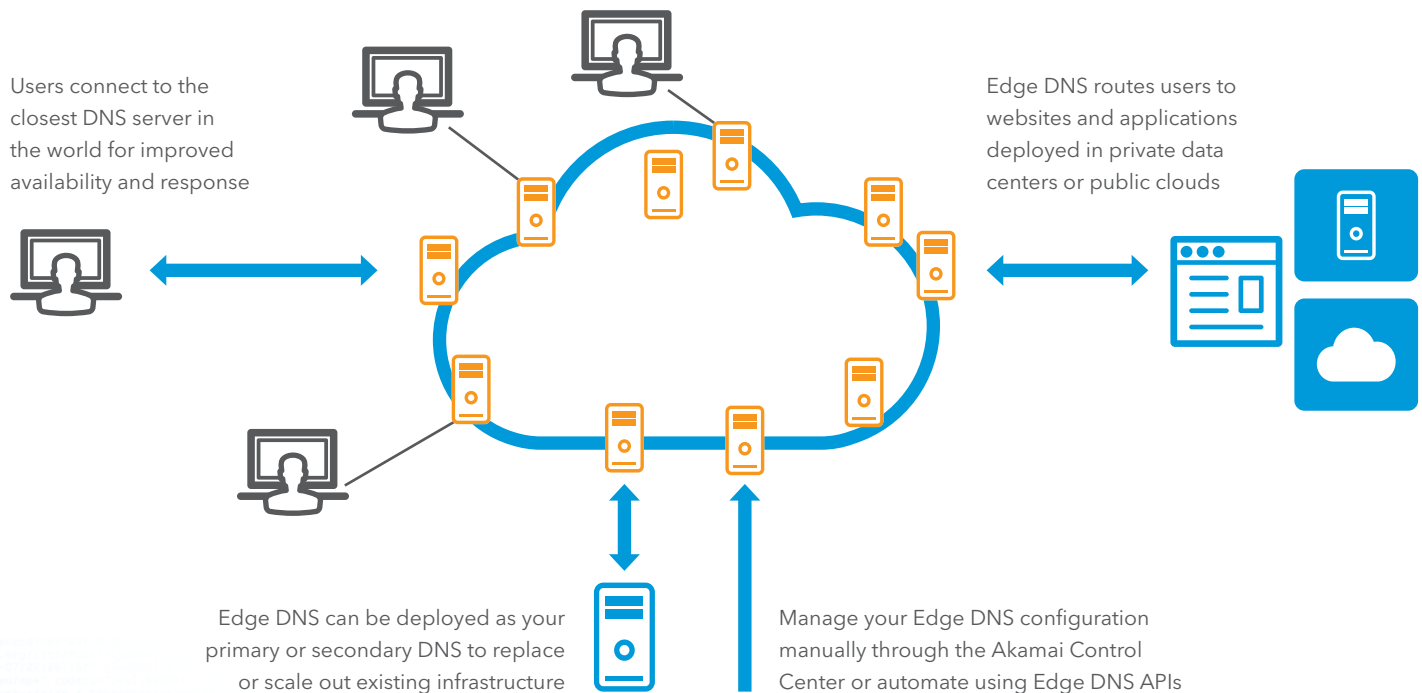
BENEFITS TO YOUR BUSINESS

Guarantee 24/7 availability by leveraging Akamai's scalable, globally distributed platform

Achieve faster, more reliable resolution with zone apex mapping and thousands of servers worldwide

Defend against DDoS attacks with the capacity to absorb them and maintain user access

Prevent DNS forgery and manipulation with Akamai DNSSEC (optional add-on)

Simplify DNS infrastructure management with Akamai Control Center and Edge DNS APIs

Control costs with pricing based on the number of zones, not requests

> "We've built a highly sophisticated trading and order execution platform that can be used globally, so it is extremely important that our system is accessible around the clock. Akamai helps us ensure that we have powerful security against web attacks as well as important optimization capabilities to enhance overall performance. Having the right 'protect and perform' strategy in place is critical when your entire business exists online."
>
> **– Rich Teo,** CEO Asia, itBit

Edge DNS
Secure, highly available DNS at the edge

- **Fast Responses** – Direct users to a high-performing DNS server based on network conditions to improve the responsiveness of your DNS infrastructure. The globally distributed anycast network accelerates DNS resolutions for users connecting to your websites and applications from anywhere in the world, and zone apex mapping reduces DNS lookup times even further for sites on the Akamai Intelligent Edge Platform for an additional web application performance boost.

- **Defense Against DDoS Attacks** – Protect against DDoS attacks that target the DNS infrastructure to disrupt websites and application servers. Edge DNS provides a highly scalable DNS platform with sufficient capacity to absorb the largest DDoS attacks while responding to legitimate user requests, so you can maintain user access to faster online experiences even when you are under attack.

Users connect to the closest DNS server in the world for improved availability and response

Edge DNS routes users to websites and applications deployed in private data centers or public clouds

Edge DNS can be deployed as your primary or secondary DNS to replace or scale out existing infrastructure

Manage your Edge DNS configuration manually through the Akamai Control Center or automate using Edge DNS APIs

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, blogs.akamai.com, or @Akamai on Twitter. You can find our global contact information at www.akamai.com/locations. Published 02/20.