Simplify Your Move to Cloud-Based DNS

F5 Distributed Cloud DNS, delivered as a SaaS-based solution, ensures high availability and robust application performance in the cloud.

MOST ON-PREMISES DNS SOLUTIONS DON'T SCALE AS WELL AS NEEDED TO SUPPORT THE BALLOONING NUMBER OF APPLICATIONS DEPLOYED AND TODAY'S BURGEONING APPLICATION FOOTPRINTS.

More than 75% of enterprises today operate in multiple clouds, according to the 2022 F5 State of Application Strategy Report. But a much smaller percentage are known to have implemented a cloud-based DNS (Domain Name System), which offers considerable speed and performance benefits for publishing applications.

Why? Perhaps it is because extending traditional DNS to all of their applications across different environments, especially those running in the cloud, can be time-consuming and cumbersome for many organizations.

Most on-premises DNS solutions don't scale as well as needed to support the ballooning number of applications deployed and today's burgeoning application footprints. It can be laborious and costly to establish a DNS for modern apps that easily integrates into CI/CD pipelines and critical development workflows. That increases the challenge of providing the app services necessary to securely deliver applications while meeting the performance expectations of users in a hyper digital world.

It doesn't have to be this difficult. Not anymore.

Ease the Burden on Your Operations and Development Teams

F5 Distributed Cloud DNS simplifies DNS delivery across multi-cloud environments and modern applications. This SaaS-based primary and secondary authoritative DNS service offers global distribution, DDoS protection, DNSSEC, and the flexibility to automatically scale to meet growing application demands.

As your primary DNS, Distributed Cloud DNS brings maximum performance with a geo-distributed cloud network and built-in DDoS protection. As a secondary DNS, it helps reduce the load on your primary service, providing redundancy in the event of a primary service failure and improving response times if your primary service is disabled or degraded in any way.

By using it either as a primary or secondary DNS solution, you can simplify DNS management and security while easing the burden on your operations and development teams. F5 does most of the heavy lifting, applying more than 25 years of experience in application networking and security solutions. You avoid, among other things, manual deployment, security, and management as well as hardware and software maintenance.

Global availability and diversity
Built on a global anycast network to provide highly available and responsive DNS via points of presence (PoPs) in numerous global markets.

Intuitive interface with APIs
Manage services through an intuitive user interface or automate everything with declarative APIs.

Automatic capacity scaling
Automatically scale to respond to large query volumes without manual intervention.

Layers of security
Get dynamic security with automatic failover, built-in DDoS protection, DNSSEC, and TSIG authentication that maintains application availability and authenticates and secures lookups and responses.

Cloud agnostic
Deploy and secure applications anywhere. Built on a global data plane enabling deployment and management of DNS and app protection services regardless of where your apps are located, with one set of APIs, a single UI, a common set of capabilities, and simplified configuration for multi-cloud deployments.

Experience and support
Count on 99.9% service guarantees and premium 24x7 support from experts with more than 25 years of experience.
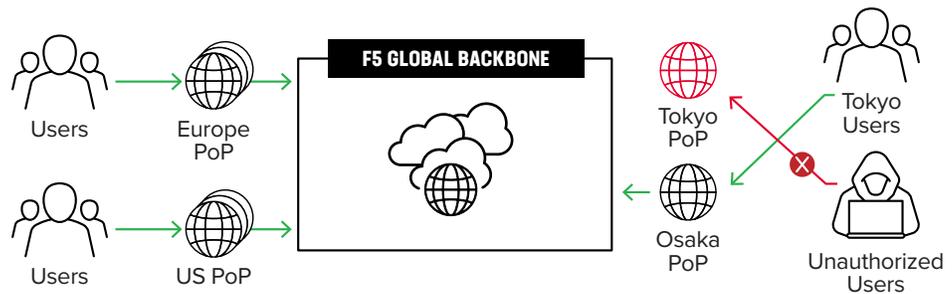
Figure 1: A reference architecture for Distributed Cloud DNS

Why Distributed Cloud DNS

Streamline your application deployment and management with automation and SaaS-based DNS from F5. Achieving a high-performance, responsive app experience requires consistent, scalable DNS functionality. Distributed Cloud DNS provides just that—so you can deliver fast, secure, and available applications across hybrid and multi-cloud environments.

- **Speed and simplicity:** The service seamlessly integrates into critical development workstreams and DevOps pipelines, providing automation and a rich intuitive user interface and streamlining setup and ongoing management. Configure critical DNS services in just a few clicks and be responding to queries in minutes.

- **Flexibility and scale:** As a SaaS-based, cloud-delivered solution, Distributed Cloud DNS offers global auto-scaling, so you keep up with demand as the number of applications increases, traffic patterns change, and request volumes grow exponentially. Adjust DNS and security policies in real time and publish new apps with DNS instantaneously, all while paying only for what you use with no added overhead or costs.

- **Security:** High-performance applications must be kept secure. That means ensuring not only uptime and availability but also protection from exploitation. With built-in DDoS protection, automatic failover, TSIG authentication, and DNSSEC capabilities, this service helps protect your applications from DDoS attacks and other threats.

DevOps-friendly Distributed Cloud DNS delivers the high performance, security, and global resiliency—across clouds, geographies, and availability zones—that your users expect from your apps in today's demanding marketplace.

Contact an F5 sales representative for more information.