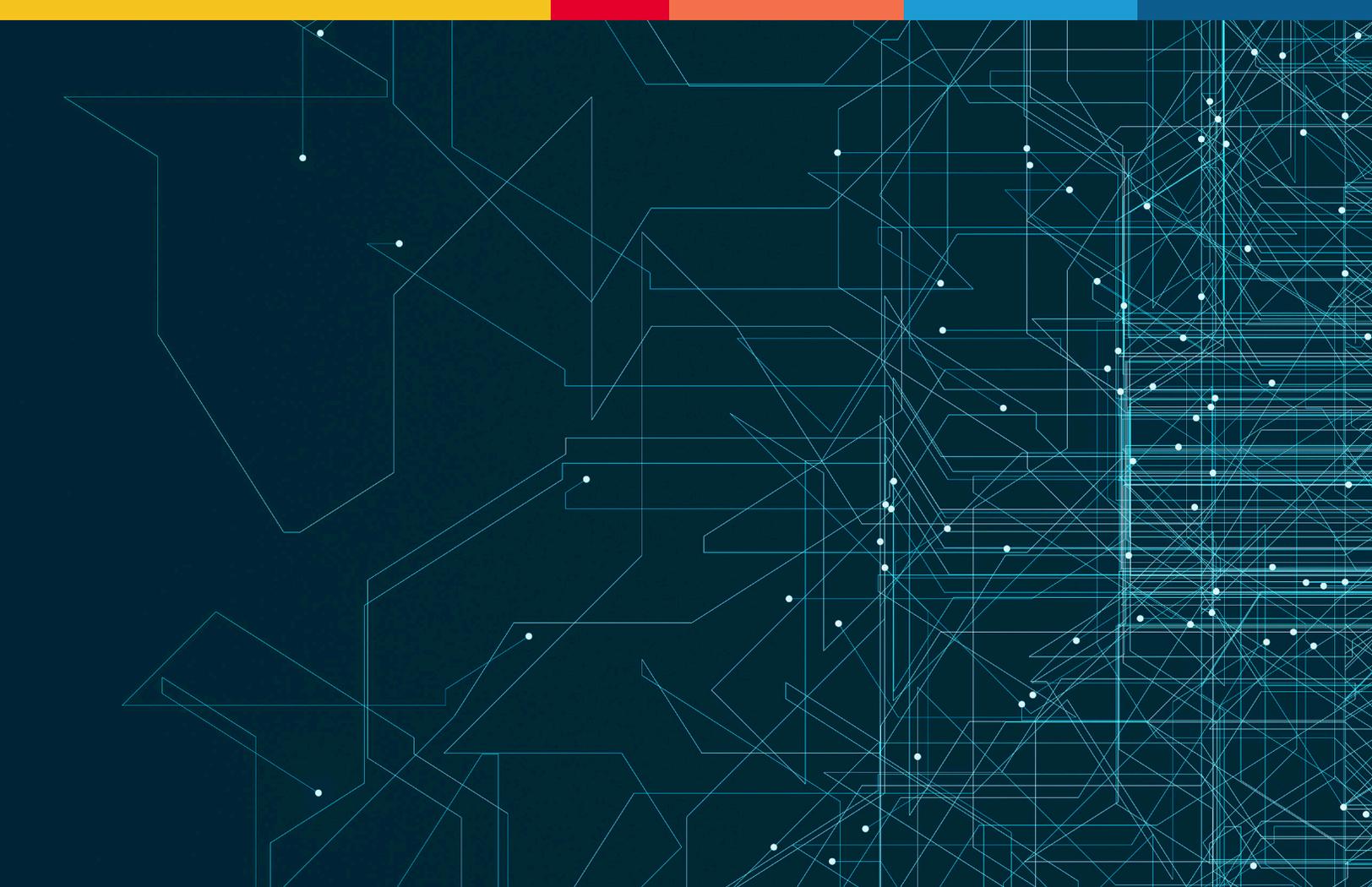




# Powerful DNS with Load Balancing and Disaster Recovery

Cloud-based, intelligent DNS Load Balancer from F5 efficiently directs application traffic across environments globally, performs health checks, and automates responses to activities and events to maintain high performance among apps.



## KEY BENEFITS

### Speed and simplicity

Seamlessly integrate into critical development workstreams and DevOps pipelines, enabling the configuration of critical global load balancing services in just a few clicks.

### Flexibility and scale

Leverage global auto-scaling to keep up with demand as applications increase, traffic patterns change, and request volume skyrockets. Adjust load-balancing policies in real time, publish new apps instantly, and pay only for what you use.

### Best-in-class security

Get built-in protection for web applications and APIs, including web application firewall (WAF), DDoS mitigation, API security, and bot defense.

### Application Security

Protect your applications against application-layer attacks.

### Disaster recovery

Automatically detect primary site failures, get zero-touch failover, and dynamically fail applications over to your recovery-designated or available instances.

**DNS LOAD BALANCER IS MEANT FOR COMPLEX ENVIRONMENTS—THOSE WITH DISTRIBUTED APPLICATIONS AND WORKLOADS, NUMEROUS LOCATIONS, AND ENDPOINTS STRUGGLING TO DELIVER RELIABLE PERFORMANCE.**

**Cloud-based server load balancing offers inordinate speed and performance benefits** for publishing applications compared to its on-premises counterparts. But despite more than 75% of enterprises operating today in multiple clouds, according to the 2022 F5 State of Application Strategy Report, less than half of all companies have implemented cloud-based DNS and load balancing services.

Some organizations are still wary of cloud security or third-party ownership. However, extending traditional load balancing to all their applications across different environments, especially those running in the cloud, can be time-consuming and cumbersome.

These organizations are missing many benefits, including the chance to futureproof their operations. Most on-premises load balancing solutions do not scale as well as needed to support the ballooning number of applications deployed and today's burgeoning application footprints. It can also be laborious and costly to establish load balancing 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.

Deploying and managing cloud-based DNS Load Balancer doesn't have to be complicated or fraught with security challenges.

## Ensure High Availability and Robust App Performance in the Cloud

F5® Distributed Cloud DNS Load Balancer simplifies load balancing across multi-cloud environments and modern applications and offers global distribution, built-in distributed denial of service (DDoS) protection, and automatic scaling.

Distributed Cloud DNS Load Balancer is meant for complex environments—those with distributed applications and workloads, numerous locations, and endpoints struggling to deliver reliable experience and performance. It includes a cloud-based, intelligent global server load-balancing service that efficiently directs application traffic across environments globally, performs health checks, and automates responses to activities and events to maintain high performance among apps.

The F5 solution also provides disaster recovery, enabling you to automatically detect primary site failures, get zero-touch failover, and dynamically fail applications over to your recovery-designated or available instances.

## KEY FEATURES

### Global location-based routing

With the global anycast network, clients can be directed to the nearest application instance with geolocation-based load balancing for the best user experience.

### Intelligent load balancing for improved uptime

Direct application traffic across environments, perform health checks, and automate responses to keep apps performing well. Mitigate downtime risks with fully automated disaster recovery.

### Intuitive interface with APIs

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

### ADC telemetry

Track performance, application health, and usage with basic visualization.

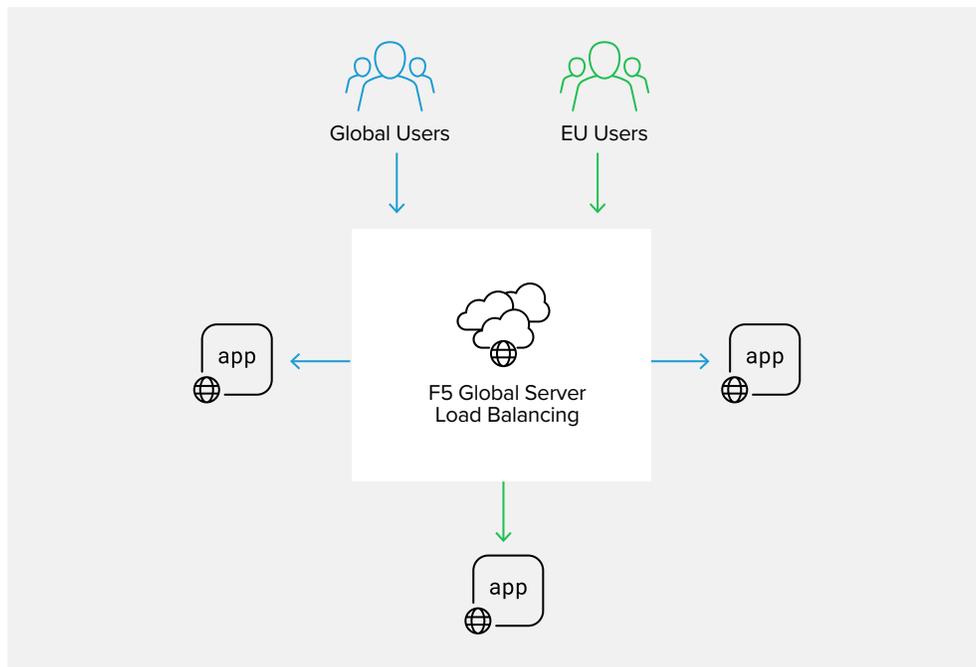
### Layers of security

Comprehensive app security with automatic failover, plus WAF, DDoS mitigation, API security, and bot defense.

### Cloud-agnostic

Deploy and secure applications anywhere. Built on a global data plane to enable deployment and management of DNS, load balancing, and app protection, regardless of where your apps are located.

You simplify DNS management and load balancing and ease the burden on your operations and development teams. F5 does most of the heavy lifting, applying its 25-plus years of experience in application networking and security solutions. You avoid, among other things, manual deployment and management of DNS and load balancing as well as any hardware or software maintenance.



**Figure 1:** Distributed Cloud DNS Load Balancer is meant for complex environments—those with distributed applications and workloads and numerous locations and endpoints.

## Conclusion

SaaS-based, automated Distributed Cloud DNS Load Balancer streamlines your application deployment and management.

Achieving high-performance, responsive app experiences requires consistent, scalable DNS functionality and effective global server load balancing (GSLB). Distributed Cloud DNS Load Balancer provides that and more—it enables organizations to deliver fast, secure, and available applications across hybrid cloud and multi-cloud environments. You get:

- **Speed and simplicity:** Distributed Cloud DNS Load Balancer seamlessly integrates into critical development workstreams and DevOps pipelines. It provides automation and a rich intuitive user interface streamlining setup and ongoing management—enabling the configuration of critical DNS and load balancing services in just a few clicks, so you can be responding to queries in just a few short minutes.

DNS LOAD BALANCER OFFERS GLOBAL AUTO-SCALING, SO YOU KEEP UP WITH DEMAND AS THE NUMBER OF APPLICATIONS INCREASES, TRAFFIC PATTERNS CHANGE, AND REQUEST VOLUME GROWS EXPONENTIALLY.

- **Flexibility and scale:** Distributed Cloud DNS Load Balancer offers global auto-scaling, so you keep up with demand as the number of applications increases, traffic patterns change, and request volume grows exponentially. You can adjust load-balancing policies in real time, publish new apps with DNS almost instantaneously, all while paying only for what you use with no added overhead or costs.
- **Security:** Beyond having high-performance applications, you must ensure they are secure. That means not only uptime and availability but also protection from exploitation. With built-in DDoS protection, automatic failover, and transaction signature (TSIG) authentication, DNS Load Balancer helps ensure your applications are effectively protected against DDoS attacks and other application threats.
- **Disaster recovery:** Get peace of mind with automatic detection of primary site failures and zero-touch failover, which means your applications dynamically fail over to your recovery-designated or available instances without any human intervention.

F5 Distributed Cloud DNS Load Balancer delivers the high performance, security, and global resiliency for your apps—across clouds, geographies, and availability zones—that is expected by your users in today's demanding environment.

**F5 Distributed Cloud DNS solutions are sold as a SaaS-based subscription service through an F5 sales representative.**

Interested? Contact [sales@f5.com](mailto:sales@f5.com) today.

