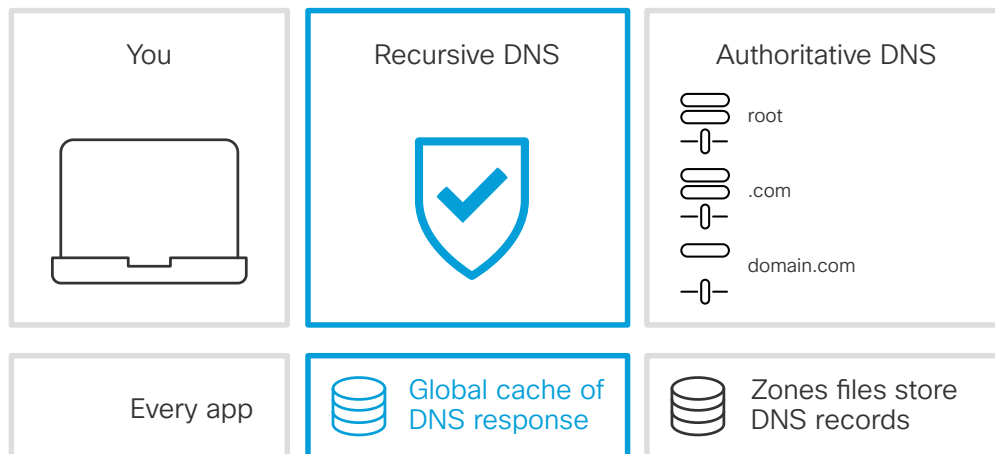


10 reasons why 12,000+ businesses point DNS to Cisco Umbrella.

More secure, ultra-reliable, and speedy recursive DNS service compared to ISPs or local DNS servers

With Cisco Umbrella, we are committed to delivering the best possible internet experience to every single one of our 65+ million users. And we are obsessed with inventing new technologies to speed up the internet and move the state of the art for the Domain Name System (DNS) forward.

The Cisco Umbrella global network handles 80+ billion DNS requests daily – with 100% uptime.



Here are 10 reasons to point DNS to Umbrella:

More secure

Highly scalable, automated defenses

Shielding our infrastructure from DDoS, cache poisoning and forged responses mitigates impact from attacks.

We have your back by implementing and innovating best-in-class DNS practices – from blocking or rate limiting requests with unusual record types, excessive duplicate queries, excessive DNS records, or those sent from malicious client IPs to adding entropy to our nameserver requests.

Hardened DNS resolver code

Specializing code drastically reduces the likelihood of exploits compared to BIND or Microsoft DNS.

Umbrella servers run a private fork of djbdns source code, and related systems are always patched. Compared to BIND or Microsoft DNS, Umbrella was unsusceptible to vulnerabilities like the widespread DNS cache poisoning reported in July 2008.

The first service to encrypt DNS traffic

Securing the “Last Mile” of DNS traffic between you and the ISP blocks eavesdropping and other attacks.

Just as SSL turns HTTP web traffic into HTTPS, Umbrella uses DNSCrypt to turn regular DNS into encrypted DNS traffic. Optional endpoint software secures DNS from man-in-the-middle attacks without any changes to domain names or how they work.

Ultra-reliable

Transparent operational excellence

Staffing a 24x7 dedicated team of the top DNS experts and network engineers enables you to connect with confidence.

100% uptime isn't just marketing to us. Umbrella's network operations center maintains watch over the entire internet for routing issues as well as our global infrastructure for incidents. Since 2006, we've publicly shared our [system status](#).

Anycast routing reduces admin burden

Handling all DNS requests using the same IP address eliminates network complexity.

Umbrella announces one IP address for hundreds of DNS resolvers across all data center locations. Even if multiple locations go offline, there are no service disruptions, because DNS requests are transparently routed to the next best location, ensuring that you get where you want to go.

Smarter DNS cache technology

Substituting invalid responses with the last-known IP address enables a better internet experience.

If a domain's authoritative nameserver becomes unreachable or misconfigured, Umbrella SmartCache returns the expired DNS response rather than an error. When the rest of the world is unable to reach a site, you are able to connect with confidence.

Speedy

One of the world's largest DNS caches

Knowing nearly every answer before you even ask the question reduces authoritative nameserver delays.

We know you don't have all day to wait for DNS resolution – that's why Umbrella data centers share previous responses in one global cache. This avoids delays associated with waiting for multiple authoritative nameservers to reply to your DNS request.

Over 500 peers at internet exchange points

Routing requests and responses with the fewest internet hops reduces round-trip time.

Umbrella leverages a little help from our friends. By exchanging routes and establishing interconnections with over 500 of the largest ISPs and networks in the world, we shorten the path between you and Umbrella, and between Umbrella and authoritative nameservers.

Integrated with content delivery networks

Directing networks and devices to connect to the nearest content reduces connection latency.

Umbrella, leading global CDNs and other public DNS services work together to speed up the internet by enabling CDNs to answer DNS requests with IP addresses for the closest content servers to you. This reduces latency for everything – from business critical apps to streaming video.

Over-provisioned resilient infrastructure

Handling floods of malicious requests without impacting legitimate requests mitigates slowdowns.

While it's mostly a security issue, minimizing the effects of attacks also provides major performance benefits. Umbrella over-provisions system resources for each recursive resolver at each data center to be an order of magnitude of over target capacity.

But the top reason to use Umbrella is:

Security visibility

See what's happening on your networks

In real-time, all internet activity is logged and categorized by 8 types of security threat as well as 60 types of web content.

All you need to do is input your networks' IP addresses in our easy-to-use web interface, and then search, filter, and export this internet activity globally or per-network for the past 14 days.