Cloudflare Blog

Technical deep dives, product updates, and insights from the teams that are helping to build a better Internet.

SEPTEMBER 11, 2026

Introducing automatic remediation policies with Cloudflare CASB

Cloudflare CASB policies introduce a native automation engine built directly on the Cloudflare developer platform to remediate SaaS risks automatically. Security teams can now design event-driven logic to revoke risky file shares and send webhooks without manual intervention.

Michael Leslie and Abe Carryl

SEPTEMBER 10, 2026

1.1.1.1 now supports post-quantum DNSSEC, all 2,420 bytes of it

1.1.1.1 now validates DNSSEC signatures using NIST's post-quantum ML-DSA-44 algorithm. Here is how we manage 2,420-byte signatures and downgrade risks at scale.

Sebastiaan Neuteboom and Bas Westerbaan

SEPTEMBER 9, 2026

How we rebuilt Cloudflare Workers' module registry for Node.js compatibility

Workers now enables Node.js compatibility by default, supports applications up to 64 mebibytes, and adds a URL-based module registry with import.meta, lazy compilation, shared code caches, and clearer errors.

Logan Gatlin and James Snell

SEPTEMBER 8, 2026

Automatic Key Exchange: faster, post-quantum secure origin handshakes for 45 billion daily connections (and counting)

SEPTEMBER 3, 2026

Introducing context-aware vulnerability discovery and remediation with Cloudflare Managed Defense and OpenAI Daybreak models

Automatic Key Exchange probes TLS 1.3-capable customer origins to learn which key agreement algorithms they support. We then lead with the most secure algorithm when connecting to the origin, preferring post-quantum connections wherever the origin supports it.

Suleman Ahmad, Yawar Jamal, and Alex Krivit

Use production traffic and security signals to prioritize findings, prepare edge mitigations when safe, and propose code patches. By combining WAF data with OpenAI Daybreak models, Vulnerability Discovery and Remediation helps teams identify and patch the most critical threats first.

Ken Sanderson, Jacob Crisp, Dan Jones, and Blake Darché

SEPTEMBER 1, 2026

How we could save petabytes of cache storage with Zstandard and Pingora

Could we get more cache space with the same hardware? We prototyped compression inside Cloudflare's cache to find out.

Aashi Patel

AUGUST 31, 2026

Introducing Adaptive Intelligence: Undermining the economics of every bot attack

Bot operators have historically had the economic advantage, bypassing static, deterministic detection rules with cheap proxies and retooling. Cloudflare's new Adaptive Intelligence engine flips this dynamic by autonomously learning from the meta-signals of live traffic and deploying disposable rules, making automated attacks too expensive to sustain.

Chris Pope

AUGUST 28, 2026

AUGUST 27, 2026

BotBase for Operators: A clearer path to joining Cloudflare's directory of bots and agents

Bot operators now have a home in the Cloudflare dashboard to manage submissions. This update adds submission status tracking, submission editing, and a behavior model so operators can accurately declare how their bots use content.

Julian Laxman

How we saved 100 terabytes of memory by optimizing 1.1.1.1's DNS cache

Five Rust-level memory optimizations to the DNS cache layout of Big Pineapple cut per-entry memory by 56%, freeing approximately 100 TB of memory across Cloudflare's fleet.

Sebastiaan Neuteboom

AUGUST 24, 2026

The Cloudflare Blog — brought to you by EmDash

We migrated the Cloudflare Blog to EmDash to prove our stack at massive scale. Here is how we stress-tested performance, safely routed production traffic, and redesigned the frontend experience.

Kody Jackson, Diogo Carneiro, and Amy Dutton

AUGUST 21, 2026

Say it once: Introducing Bot Preference Sync

Cloudflare's new Bot Preference Sync automatically aligns your robots.txt file with your AI bot policies for Search, Agent, and Training. Easily manage which bots access your content without maintaining static files.

Jin-Hee Lee

AUGUST 20, 2026

From all-or-nothing to task-based OAuth consent

Cloudflare OAuth now supports optional scopes, giving users more control over what an app can access and helping developers build secure consent flows around the task at hand.

Miller Vargas, Adam Bouhmad, and José Enrique Rodríguez

AUGUST 19, 2026

A revisit of remote Spectre attacks on Cloudflare Workers

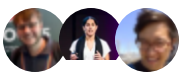
In 2024 and 2025, we reassessed remote Spectre attacks on our Workers infrastructure. We share details about the new attack primitives like Spectre gadgets, remote timers, achieving co-location and how new defenses further harden Cloudflare Workers.

Martin Schwarzl and Albert Pedersen

AUGUST 18, 2026

BGP Role model: tracking the adoption of RFC 9234

RFC 9234 lets routers reject route leaks on their own, using BGP Roles and the Only to Customer attribute. We measured who has deployed it, and found two Tier 1 networks unexpectedly stripping OTC.

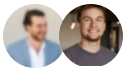


Bryton Herdes, Iliana Xygkou, and Mingwei Zhang

AUGUST 14, 2026

How Cloudflare detects MCP traffic and helps secure it

Cloudflare Gateway identifies MCP requests using protocol-level heuristics. Security teams can use that signal to find shadow MCP traffic, enforce Portal-only access for approved servers, and block direct connections on managed network paths.

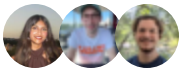


AJ Gerstenhaber and Kenny Johnson

AUGUST 14, 2026

Secure all your internal vibe-coded applications — in one click

Introducing Cloudflare Access for Workers. Attach an Access policy directly to a Worker and it applies everywhere that Worker runs — routes, custom domains, workers.dev, and previews — automatically.

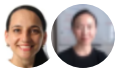


Chythra Malapati, Matt Rothenberg, and Matt Provost

AUGUST 13, 2026

Total eclipse of the Internet: traffic impacts in Iceland, Spain, and Portugal

Cloudflare's data shows a clear impact on Internet traffic from Iceland to Spain and Portugal, following the path of totality of the total solar eclipse that occurred on August 12, 2026.



Sabina Zejnilovic and Lai Yi Ohlsen

AUGUST 13, 2026

Certificate Transparency Monitoring is now generally available

Cloudflare's Certificate Transparency Monitoring is now generally available. The biggest change: we no longer email you about certificates Cloudflare issued for your domain, so when an alert lands in your inbox, it's worth a look.

Jenny Yang and Pravallika Nakarikanti

AUGUST 11, 2026

Cloudflare DDoS Threat Report H1 2026: 1 Tbps attacks soar as DNS floods and geopolitical tensions drive a new wave

In the first half of 2026, Cloudflare detected a 519% surge in hyper-volumetric DDos attacks across its network. These attacks were driven heavily by DNS and CLDAP reflection vectors. This report breaks down how major geopolitical conflicts reshaped the global cyber threat landscape.

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