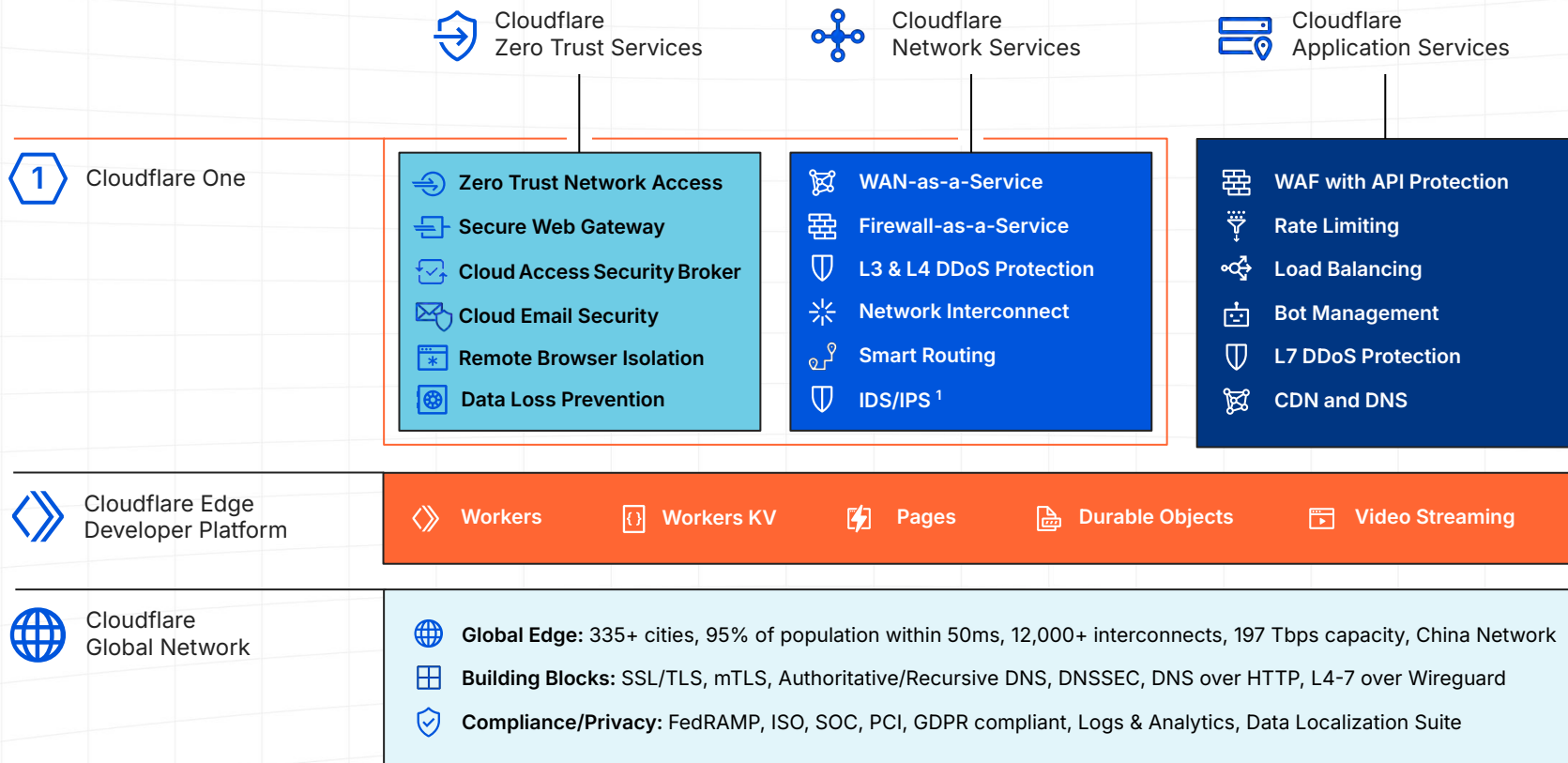


Cloudflare Zero Trust & SASE

G-Cloud 15



GCloud 15 Service Definition for Cloudflare Zero Trust & SASE



¹Contact us to request access

Cloudflare One SASE / Zero Trust

Cloudflare One is the SASE Solution that offers...

**Fastest path
to safe AI**

Accelerate and secure AI adoption
with visibility and controls across generative and agentic AI



Easiest to use

Simplify your SASE journey
with the easiest platform to deploy, manage, and scale



**Only composable
& programmable
platform**

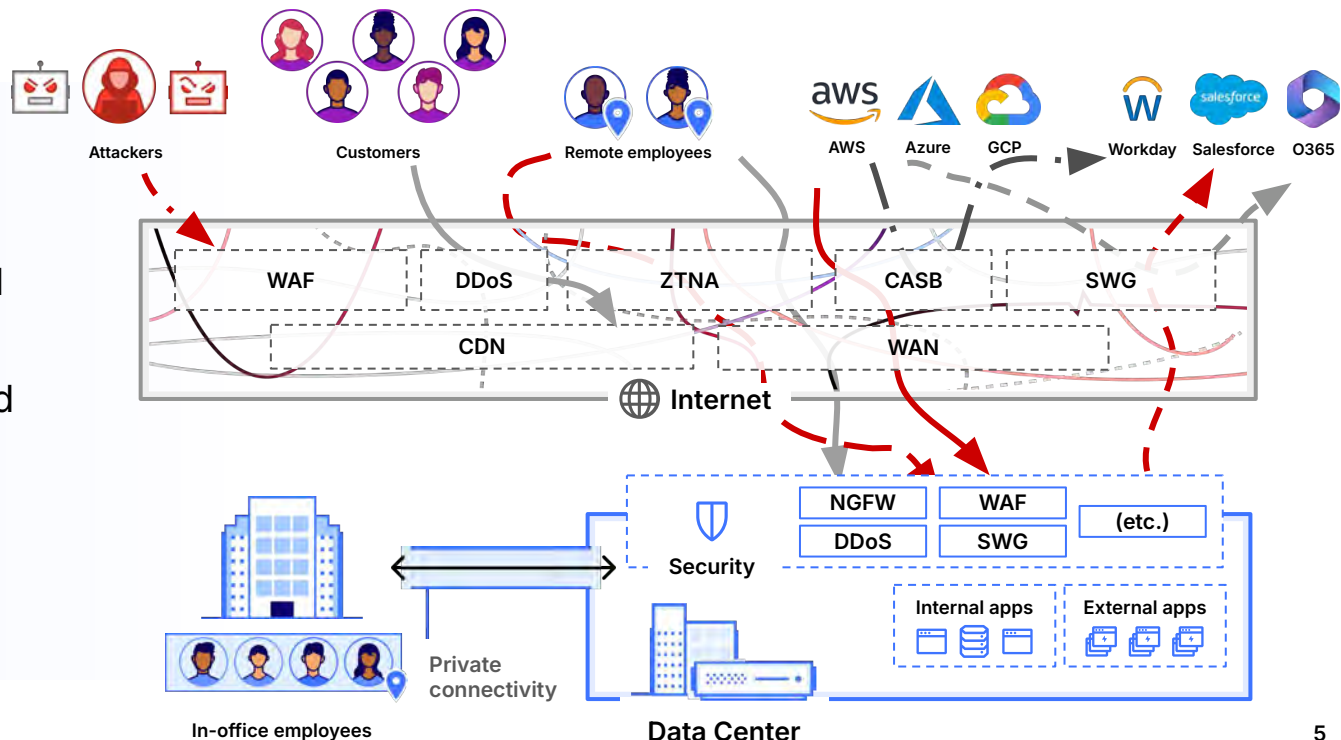
Adapt to change with agility
on an unified architecture built for infinite customizability



Legacy networks and point products

hold back digital progress

- ✗ Missing visibility or control in infrastructure sprawl
- ✗ Ballooning cost of managing legacy and cloud-based, point-product solutions
- ✗ Lack of scale and flexibility/agility



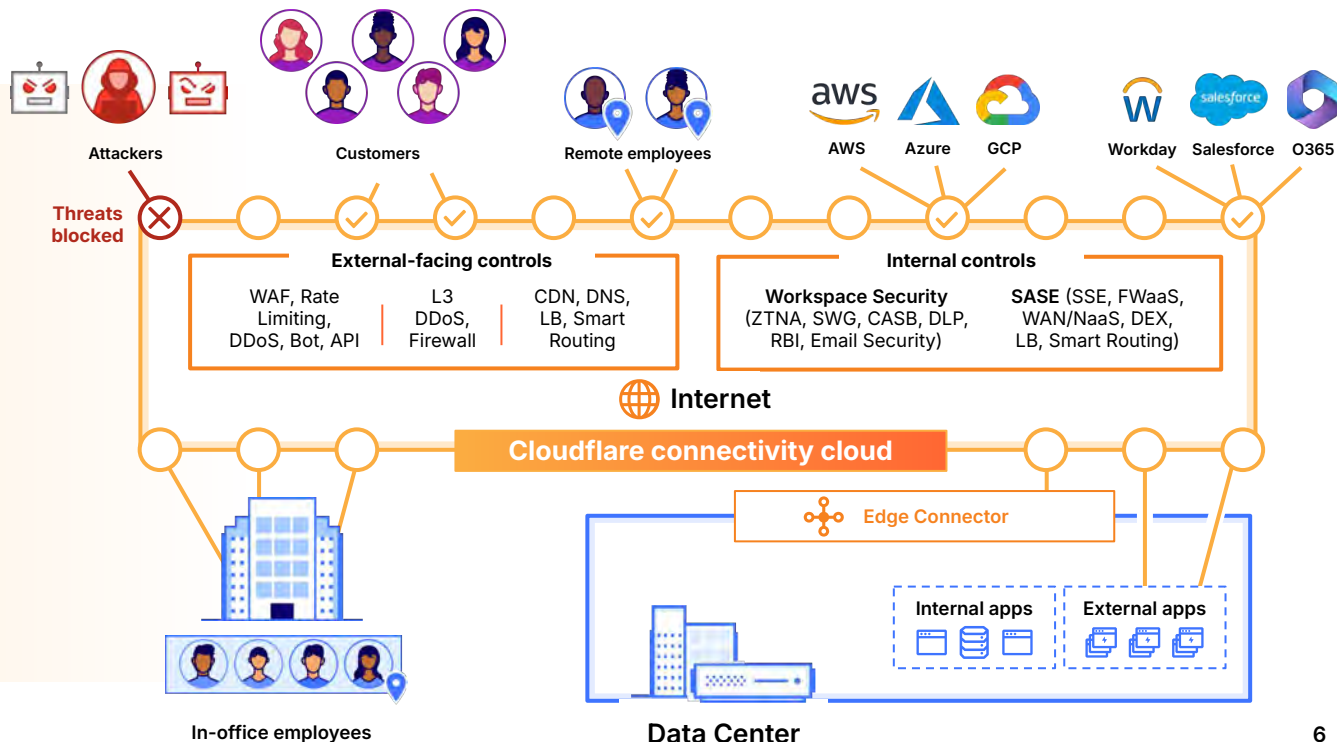
Cloudflare is the **only** composable, programmable platform that delivers local capabilities with global scale



This enables orgs to...

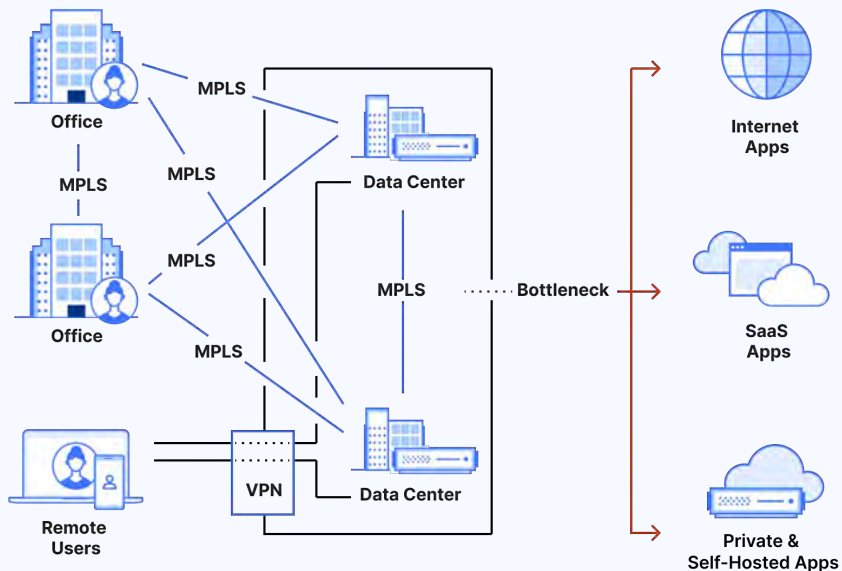
- ✓ **regain control,**
- ✓ **lower costs, and**
- ✓ **reduce the risks**

...of a complex and disjointed IT environment

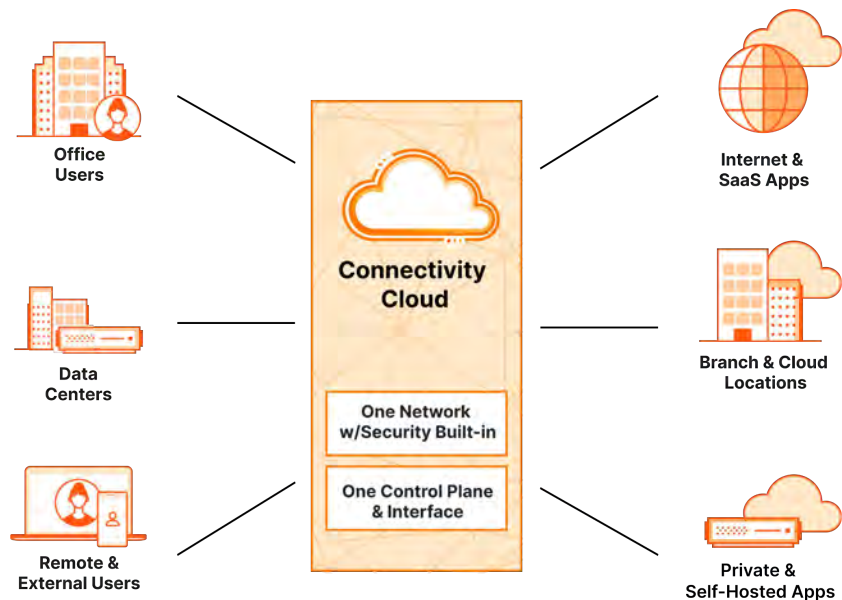


SASE is an architecture design for Zero Trust

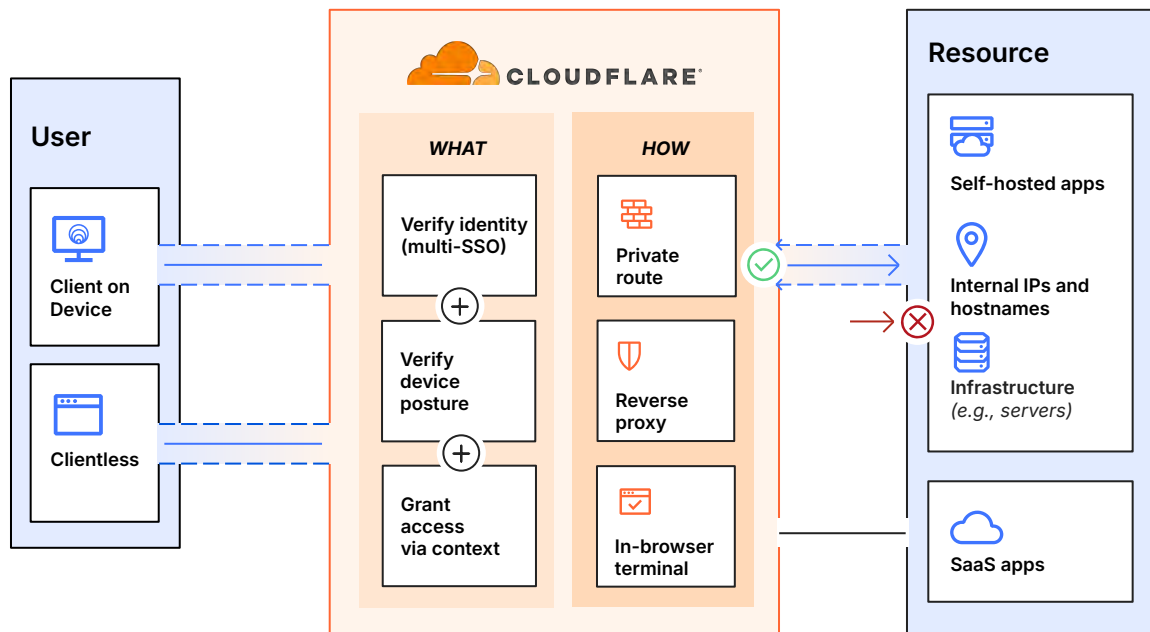
Today's corporate network



Composable IT



Simple, secure access



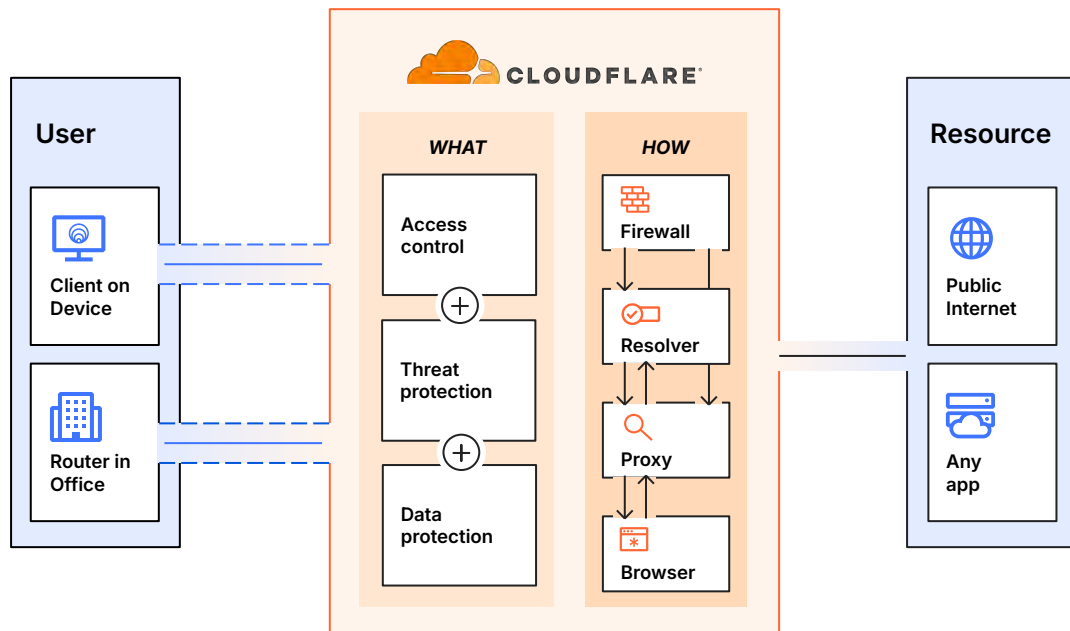
Zero Trust Network Access

Simplify remote access;
augment or replace VPNs

Improve user experience for
all (contractors, developers)

Reduce IT / help desk tickets
& eliminate lateral movement

Cyber threat defense



Secure Web Gateway

Simplify policy compliance

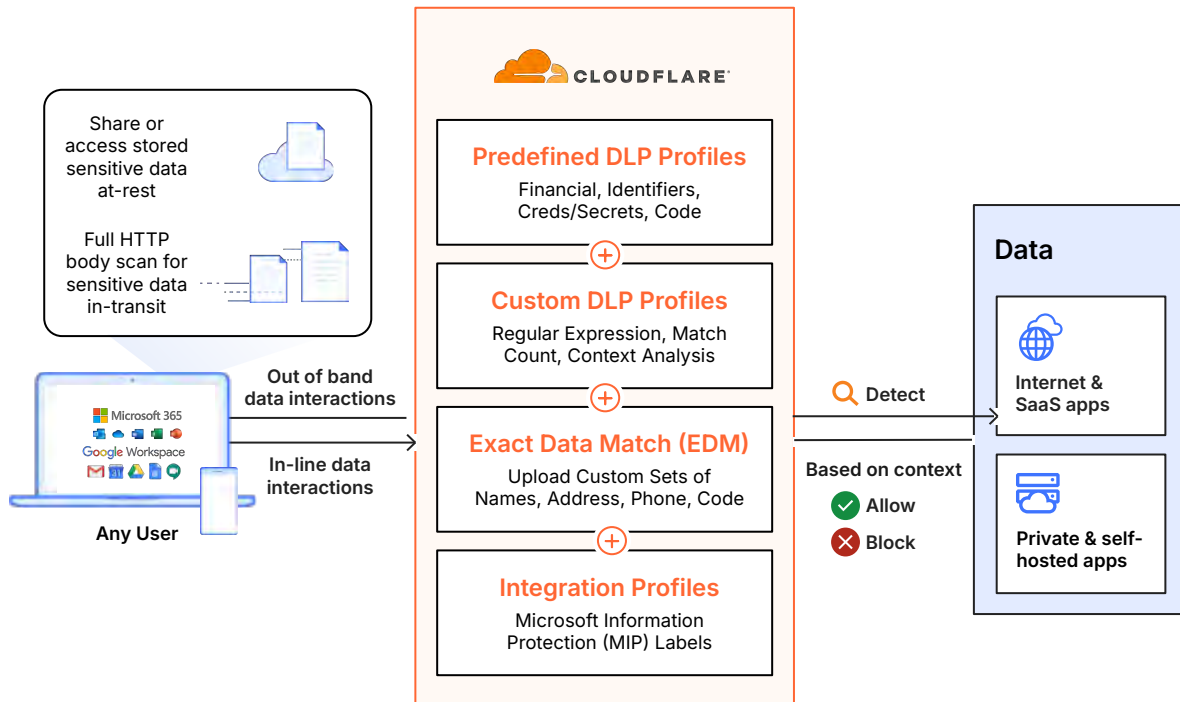
Stop phishing

Stop ransomware

Surface Shadow IT

Stop unknown threats

Data protection



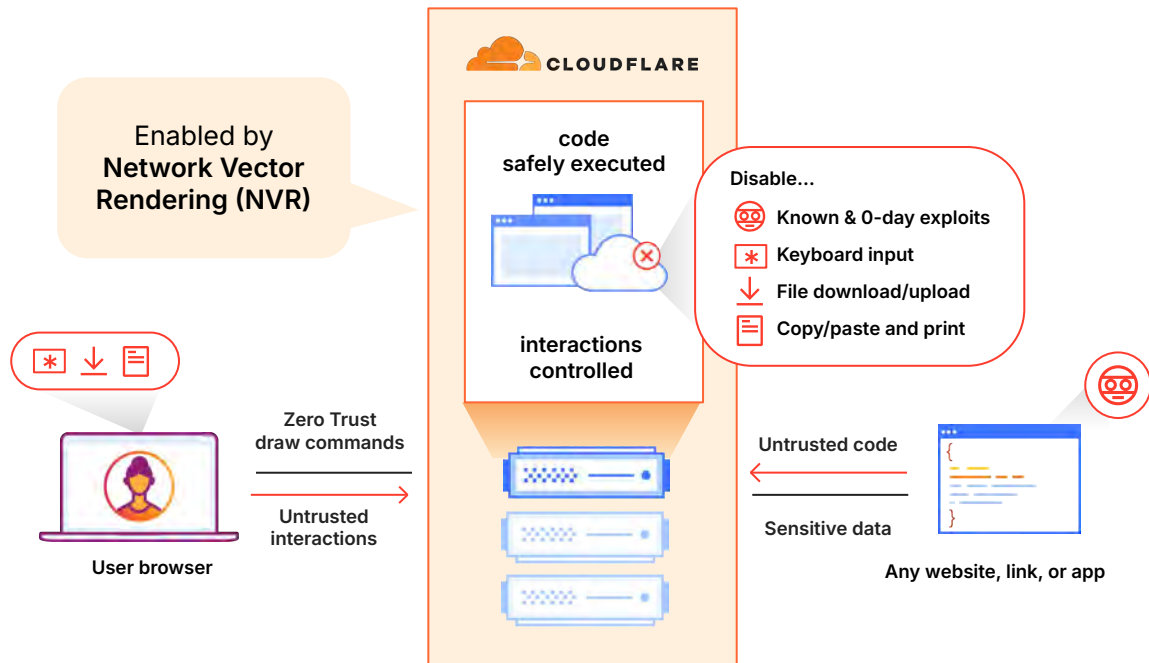
Integrated Data Loss Prevention

Simplify regulatory compliance

Reduce risk of data leakage and breaches

Increase in-line visibility across data, users, and apps

Simple, secure access with threat & data protection



Remote Browser Isolation

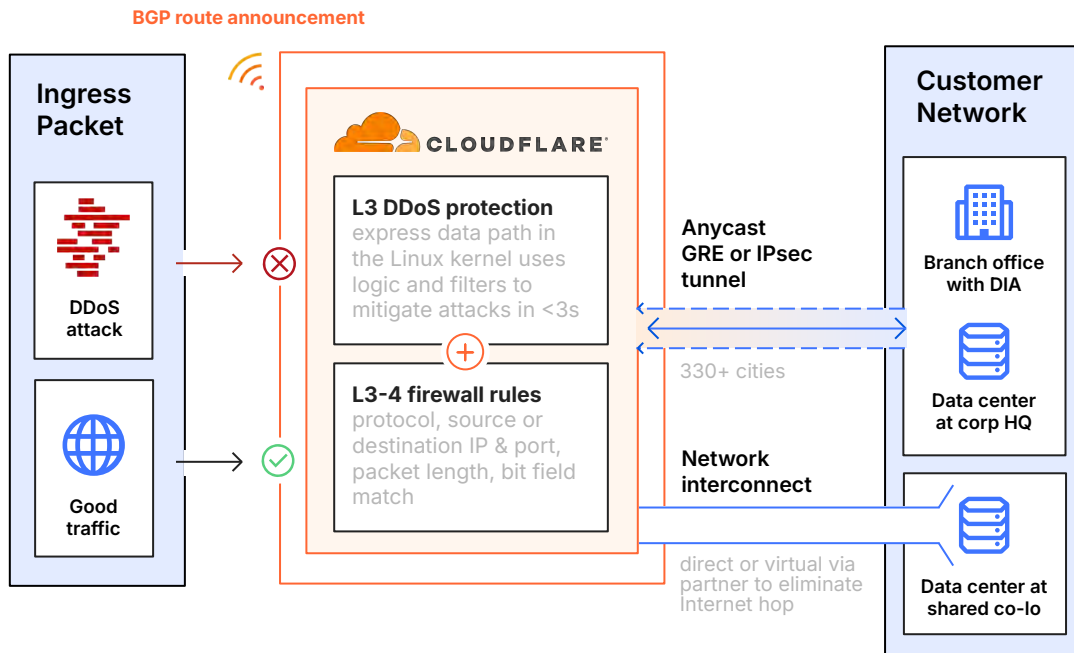
Zero trust web browsing and email links

Protect data-in-use

Lightning-fast UX

Compatibility w/all browsers

Simplify branch connectivity with security built-in



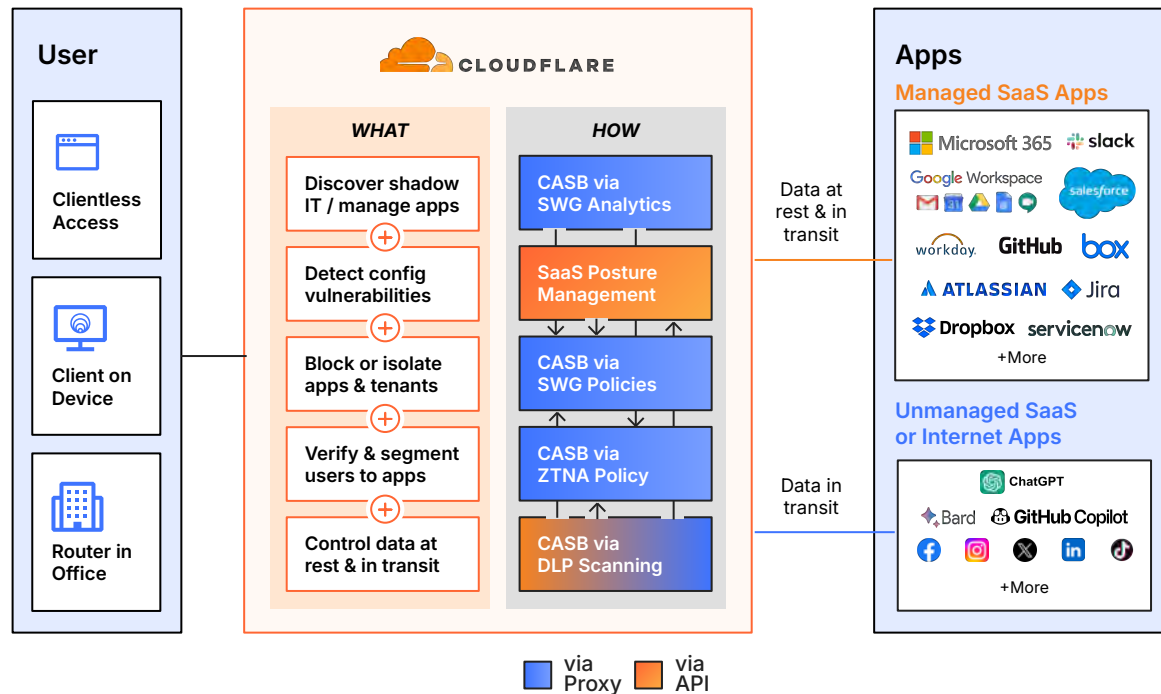
Firewall as a service

Shifts your network's attack surface to Cloudflare

Stop L3 ransom DDoS and intrusion attacks

Control traffic flows in, out and across your network

Data protection



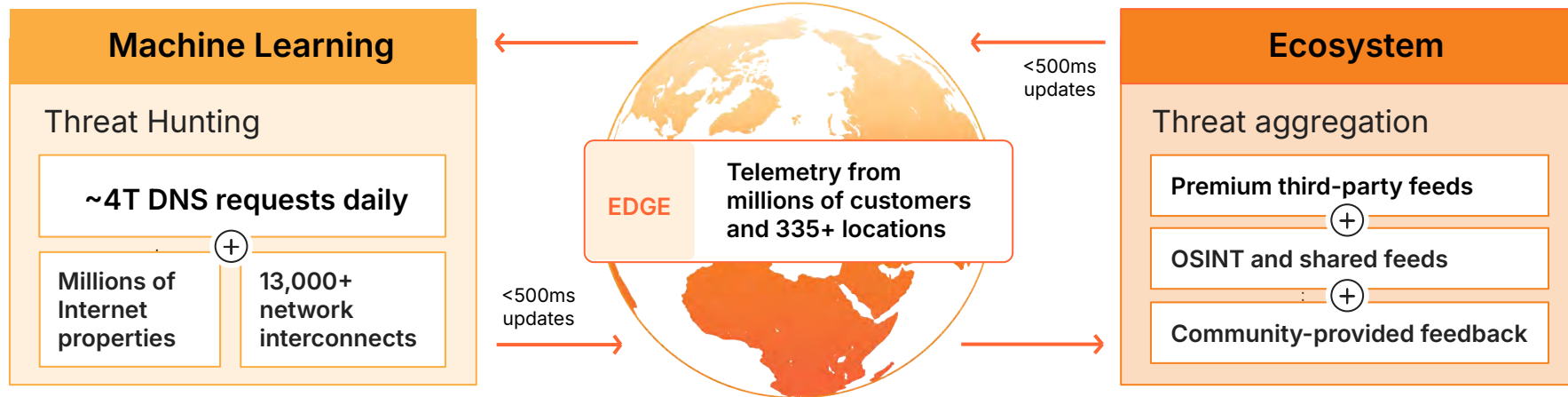
Cloud Access Security Broker (multimode)

More visibility, less config

Prevent data exfiltration

Quickly identify new risks

Cyber threat defense with Cloudforce One



Security risk categories to block, isolate or logpush to SIEM per policy rule

Malware
Phishing
Cryptomining

Newly seen domains
New domains
Unreachable domains

DGA domains
DNS tunneling
C2 & botnet

Spyware
Spam
Anonymizer

Package add-ons

Customer success and support services

Success packages

Maximize value and Cloudflare experience

Standard

Included with every Enterprise subscription and provides the necessities, such as on-demand onboarding modules and priority support.

Premium

Available upgrades for organizations with complex technical environments, or that require high priority support SLAs.

[Learn more](#)

Professional services

Advise and assist with planning, configuration, and best practices to accelerate deployment

Quickstart

A solution SME works alongside your team to guide configuration with proven best practices, helping you deploy confidently.

Migration

Expert migration assistance when moving from legacy providers such as Akamai, Fastly, or Zscaler.

Expert

Project managers, consultants, and architects assist with custom, unique use cases, such as highly regulated organizations.

[Learn more](#)

Ongoing support services

Focused technical and security operations add-ons

Technical account management

Single point of contact to provide centralized technical support management.

SOC service

Cloudflare-managed SOC providing 24/7 monitoring, detection, and mitigation across your environment.

Incident response services

On-demand access to incident response experts, helping organizations contain attacks and accelerate recovery.

Learn more: [TAM](#) | [SOC](#) | [IR](#)

Ensuring your success



[Community](#)



[Docs](#)



[Resource Hub](#)



[Help Center](#)



[Discord](#)



[Blog](#)



[theNET](#)



[Cloudflare Radar](#)



[CloudflareTV](#)



[YouTube](#)

Roadmap to Zero Trust architecture



cfl.re/zero-trust-roadmap-wp

Then, review our [SASE reference architecture](#)

Component	Goal	Level of Effort
Phase 1	- Internet traffic: Deploy global DNS filtering - Applications: Monitor inbound emails and filter out phishing attempts - DLP & logs: Identify misconfig and publicly shared data in SaaS tools	- Internet traffic: 1 bar - Applications: 1 bar - DLP & logs: 1 bar
Phase 2	- Users: Establish corporate identity - Users: Enforce basic MFA for all applications - Applications: Enforce HTTPS and DNSsec - Internet traffic: Block or isolate threats behind SSL - Applications: ZT policy enforcement for publicly addressable apps - Applications: Protect applications from layer 7 attacks - Networks: Close all inbound ports open to the Internet for app delivery	- Users: 2 bars - Users: 1 bar - Applications: 1 bar - Internet traffic: 1 bar - Applications: 1 bar - Applications: 1 bar - Networks: 1 bar
Phase 3	- Applications: Inventory all corporate applications - Applications: ZT policy enforcement for SaaS applications - Networks: Segment user network access - Applications: ZTNA for critical privately addressable applications - Devices: Implement MDM/UEM to control corporate devices - DLP & logs: Define what data is sensitive and where it exists - Users: Send out hardware based authentication tokens - DLP & logs: Stay up to date on known threat actors	- Applications: 2 bars - Applications: 1 bar - Networks: 1 bar - Applications: 1 bar - Devices: 1 bar - DLP & logs: 1 bar - Users: 1 bar - DLP & logs: 1 bar
Phase 4	- Users: Enforce hardware token based MFA - Applications: ZT policy enforcement and network access for all applications - DLP & logs: Establish a SOC for log review, policy updates and mitigation - Devices: Implement endpoint protection - Devices: Inventory all corporate devices, APIs and services - Networks: Use broadband Internet for branch to branch connectivity - DLP & logs: Log and review employee activity on sensitive apps - DLP & logs: Stop sensitive data from leaving your applications - Steady state: DevOps approach for policy enforcement of new resources - Steady state: Implement auto-scaling for on-ramp resources	- Users: 2 bars - Applications: 2 bars - DLP & logs: 2 bars - Devices: 1 bar - Devices: 1 bar - Networks: 1 bar - DLP & logs: 1 bar - DLP & logs: 1 bar - Steady state: 1 bar - Steady state: 1 bar

Service Product Definitions

Application Services Definitions



Application Services

The [Cloudflare application services portfolio](#) keeps applications and APIs secure and productive, thwarts DDoS attacks, mitigates bots, detects anomalies and malicious payloads, and encrypts data in motion, all while making everything you connect to the Internet private, fast, and reliable. These services run on every server in every data center over our global Anycast network, and all are easy to manage directly from the Cloudflare dashboard.



WAF

Our [Web Application Firewall \(WAF\)](#) blocks attacks heading towards applications - including L7 DDoS attacks - and offers better security with sophisticated, layered rulesets.



API Management

[API Management](#) takes it beyond basic analytics (e.g. viewing the # of exposed APIs or % of API traffic) by including authentication through mutual TLS and a preview of discovery — for instance, identifying the number of endpoints found and showing top X.



Advanced Rate Limiting

[Rate Limiting](#) provides the ability to limit the rate of requests and gain valuable insights into specific URLs of websites, applications, or API endpoints.



Load Balancing

[Load Balancing](#) improves application performance and availability by steering traffic away from unhealthy origin servers and dynamically distributing it to the most available and responsive server pools.



Bot Management

[Bot Management](#) stops malicious bots connecting to web sites, and uses machine learning on a curated subset of hundreds of billions of requests per day to create a reliable bot score for every request.



Advanced DDoS

In addition to protecting against Layer 3 and 4 attacks, including TCP/UDP, Cloudflare [Advanced DDoS](#) automatically detects sudden changes in traffic and protects against layer 7 DDoS attacks, so they never reach the origin server.



CDN

A [CDN](#) helps address the challenges customers face around latency, performance, availability, redundancy, security, and costs. A CDN's core goal is to decrease latency and increase performance for websites and applications by caching content as close as possible to end users or those accessing the content.



DNS

[DNS](#) resolution involves converting a hostname into a computer-friendly IP address. An IP address is given to each device on the Internet. When a user wants to load a webpage, a translation must occur between what a user types into their web browser and the machine-friendly address necessary to locate the example.com webpage.

	Payload Inspection	Payload Inspection , is an available feature of the WAF, looks at request body data and headers to determine if they are malicious.
	Managed IP Lists	Managed IP Lists are WAF managed rulesets created and maintained by Cloudflare and are built based on threat intelligence feeds collected by analyzing patterns and trends observed across the Internet.
	Sensitive Data Detection	Sensitive Data Detection is a WAF managed ruleset that was created by Cloudflare to address common data loss threats. These rules monitor the download of specific sensitive data — for example, financial and personally identifiable information.
	API Shield	API Shield helps to identify and address API vulnerabilities and comes with a dedicated certificate authority (CA) to provide strong encryption for mobile applications and IoT device traffic.
	Images	Cloudflare Images provides an end-to-end solution to build and maintain your image infrastructure from one API.
	Stream	Cloudflare Stream offers end-to-end video encoding, accelerated global delivery and player for pre-recorded and live content all handled by Cloudflare.
	Waiting Room	Waiting Room limits the number of users to the origin while placing excess traffic into a Waiting Room to provide a great user experience. This protects customers infrastructure, reduces the number of errors served to users, and acts as an extension of the customer's brand; thereby maintaining a seamless experience.
	Account Level WAF	Account Level Configuration enables users to configure all application security products (e.g. WAF, Rate Limiting, API Shield) at the account level. This does not remove the granularity of zone-level configuration.



Zero Trust Security

Cloudflare Zero Trust is a security platform that raises visibility, eliminates complexity, and reduces risks as remote and office users connect to applications and the Internet. In a single-pass architecture, traffic is verified, filtered, inspected, and isolated from threats. There is no performance trade-off: users connect through data centers nearby in 330+ cities in over 10020

Other providers offer multiple point products to protect from every threat vector, but leave customers to manage their attack surface. Cloudflare's platform stops more attacks by isolating applications and endpoints from the attack surface by shifting it to our edge, and applies threat defenses to shield that edge.



Zero Trust Network Access

Zero Trust Network Access augments or replaces corporate VPN clients by securing SaaS and internal applications. Access works with your identity providers and endpoint protection platforms to enforce default-deny, Zero Trust rules limiting access to corporate applications, private IP spaces, and hostnames.



Secure Web Gateway

Secure Web Gateway is our threat and data protection solution. It keeps data safe from malware, ransomware, phishing, command and control, Shadow IT, and other Internet risks over all ports and protocols.



Cloud Access Security Broker (CASB)

A **Cloud Access Security Broker (CASB)** gives customers comprehensive visibility and control over SaaS apps to easily prevent data leaks, block insider threats, and avoid compliance violations.



Cloud Email Security

Cloud Email Security solution crawls the Internet to stop phishing, Business Email Compromise (BEC), and email supply chain attacks at the earliest stage of the attack cycle, and enhances built-in security from cloud email providers.



Remote Browser Isolation

Web browsers are more complex and sophisticated than ever, but represent a large attack surface for businesses. **Remote Browser Isolation** makes web browsing safer and faster, running in the cloud away from your network and endpoints, insulating devices from attacks.



Data Loss Prevention (DLP)

Data Loss Prevention (DLP) enables customers to detect and prevent data exfiltration or data destruction. Analyze network traffic and internal "endpoint" devices to identify leakage or loss of confidential information, and stay compliant with industry and data privacy regulations.



Network Security

The [Cloudflare network security portfolio](#) exists to secure the networks of modern enterprises, helping to mitigate DDoS attacks, identify malicious traffic patterns, and monitor new and emerging threats. Our solutions offer unified, layered security and can be applied across all endpoints and users — no matter where they're located.

Our network solutions are delivered from our global network which operates at massive scale. Every network service - like every Cloudflare service - runs on every server in every data center over our global Anycast network. All are easy to manage from the Cloudflare dashboard, the one pane of glass for all our services.



Magic WAN

Extends the benefits of our network to customers' private networks. [Magic WAN](#) enables IP level connectivity as well as a full suite of virtual network functions, including IP packet filtering and firewalling, load balancing, and traffic management tools.



Advanced Magic Firewall

[Magic Firewall](#) is a cloud-based firewall enabling administrators to set policies for all traffic entering and leaving the network.



Magic Transit

Cloudflare [Magic Transit](#) provides near-instant mitigation of network-layer threats (L3 DDoS attacks) from the Cloudflare global network, alongside next-generation firewall and traffic acceleration.



Network Interconnect

[Cloudflare Network Interconnect](#) allows our customers to interconnect branch and HQ location directly with Cloudflare wherever they are, bringing Cloudflare's full suite of network functions to their physical network edge.



Smart Routing

[Smart Routing](#) improves Internet performance by intelligently routing end users through less congested and more reliable paths over the Internet using our network.



Intrusion Detection Systems

[Intrusion Detection Systems \(IDS\)](#) is an Advanced Magic Firewall feature you can use to actively monitor for a wide range of known threat signatures in your traffic.



Access

Access determines who can reach your application by applying the Access policies you configure.



Gateway

Gateway, our comprehensive Secure Web Gateway, allows you to set up policies to inspect DNS, Network, HTTP, and Egress traffic.



Advanced Browser Isolation

Browser Isolation complements the Secure Web Gateway and Zero Trust Network Access solutions by executing active webpage content in a secure isolated browser. Executing active content remotely from the endpoint protects users from zero-day attacks and malware.



Cloud Email Security

Cloud Email Security solution crawls the Internet to stop phishing, Business Email Compromise (BEC), and email supply chain attacks at the earliest stage of the attack cycle, and enhances built-in security from cloud email providers.



CASB

Cloudflare's **Cloud Access Security Broker (CASB)** service gives comprehensive visibility and control over SaaS apps, so you can easily prevent data leaks and compliance violations. With Zero Trust security, block insider threats, Shadow IT, risky data sharing, and bad actors.



Data Loss Prevention

Cloudflare **Data Loss Prevention (DLP)** allows you to scan your web traffic and SaaS applications for the presence of sensitive data such as social security numbers, financial information, secret keys, and source code.

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