



Agile Security in a Hyperconnected World

Extend the power of **Cloudflare** to your on-prem networks

Speaker info



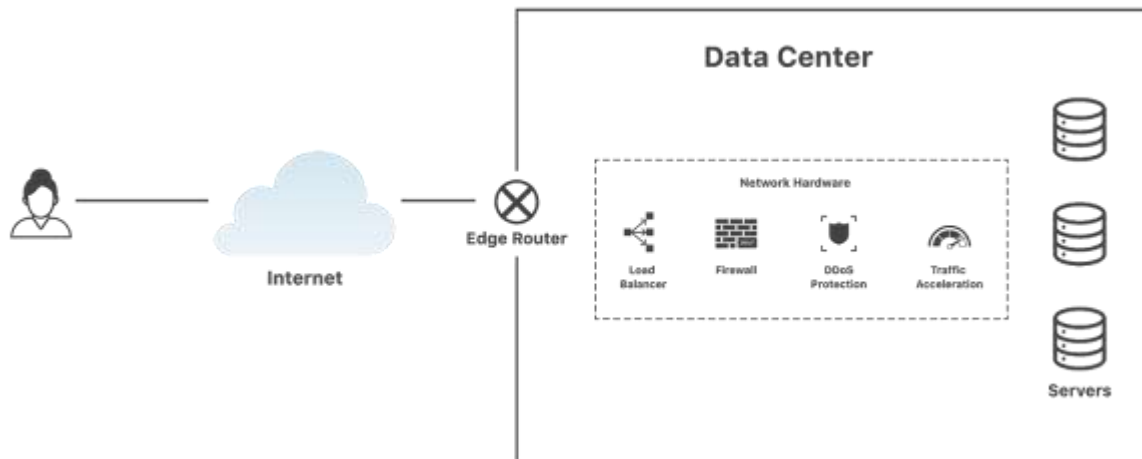
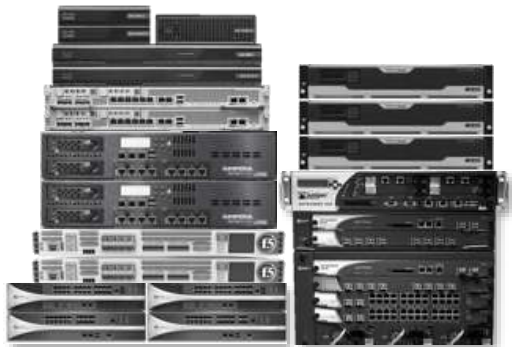
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- helps launch new products at Cloudflare
- say hello at **booth 10.401**

Traditional datacenter security architecture

- Costly and complex
- Web of dependencies
- Specialized hardware
- Point solutions



Digital Transformation

and the disconnect

Compute, storage, applications are moving to the cloud.

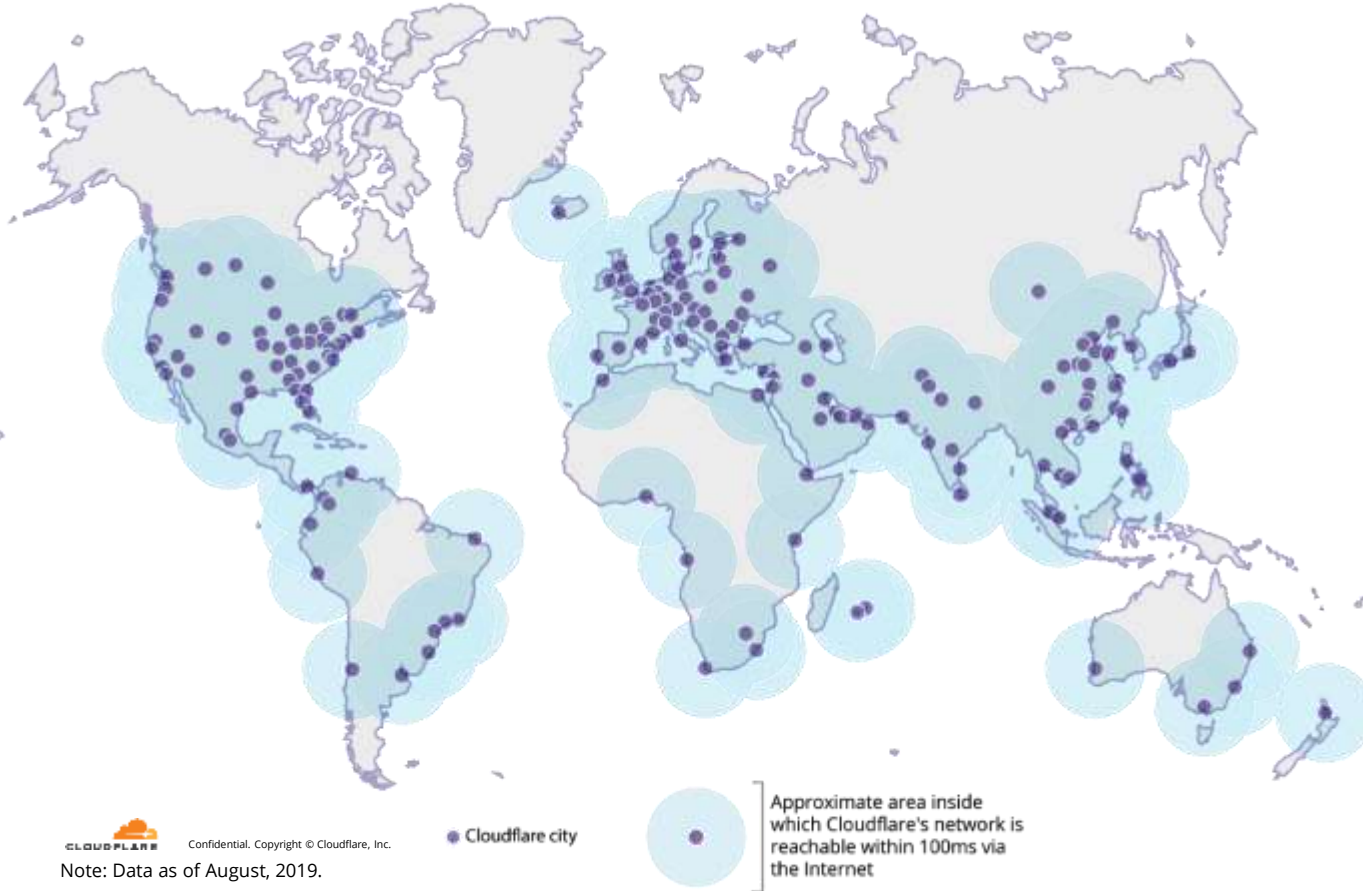
But perimeter networks still remain on-prem.

It's time for a change.

What's needed?

The **transition** to a global cloud platform that delivers **security, performance, and reliability** virtual network functions that can be deployed as services on the fly.

Global Anycast Network



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Note: Data as of August, 2019.

20M+

Internet properties

193

Cities and 90 countries


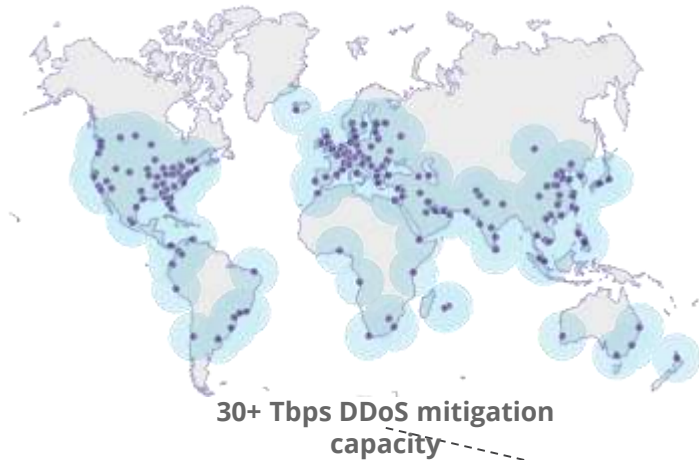
30+ Tbps

Network capacity
DDoS mitigation capacity


98%

Of the Internet-connected developed world population is located within 100 milliseconds of our network

Our battle-tested network stack, in front of your data center



DDoS protection
30 Tbps network capacity
Near-instant TTM



Network firewall
Granular Allow/Deny rules
for IP ranges

**LAYER 3 - IP
(MAGIC TRANSIT)**

CLOUDFLARE DATA CENTER

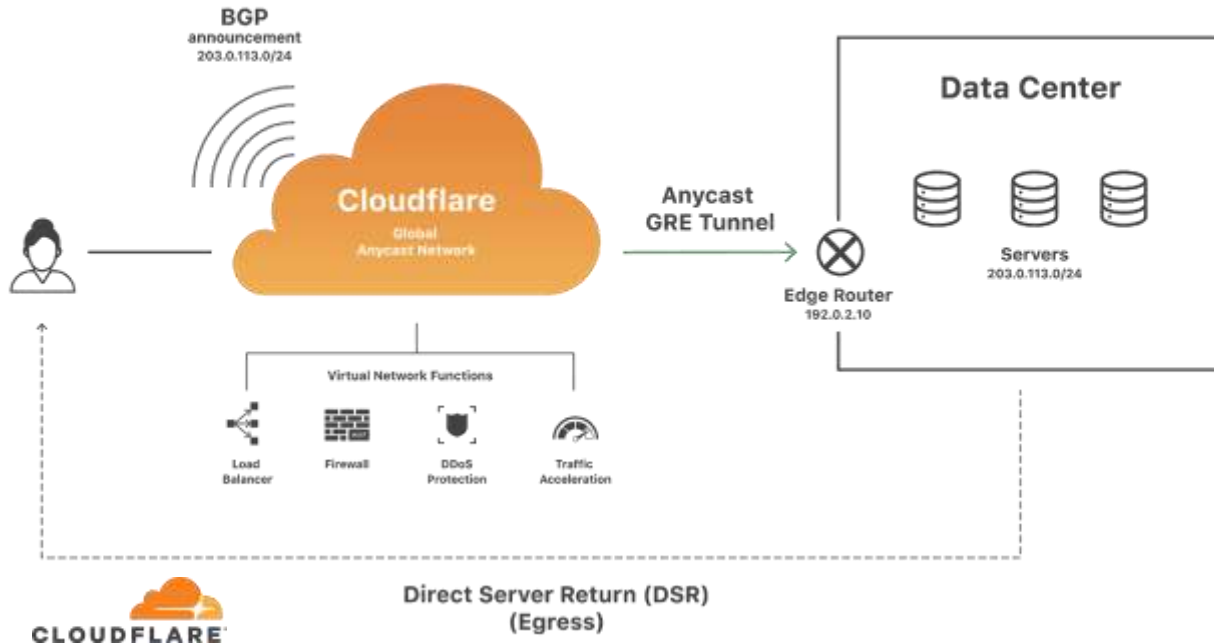


**CUSTOMER DATA
CENTER**



How it works

Modern Architecture

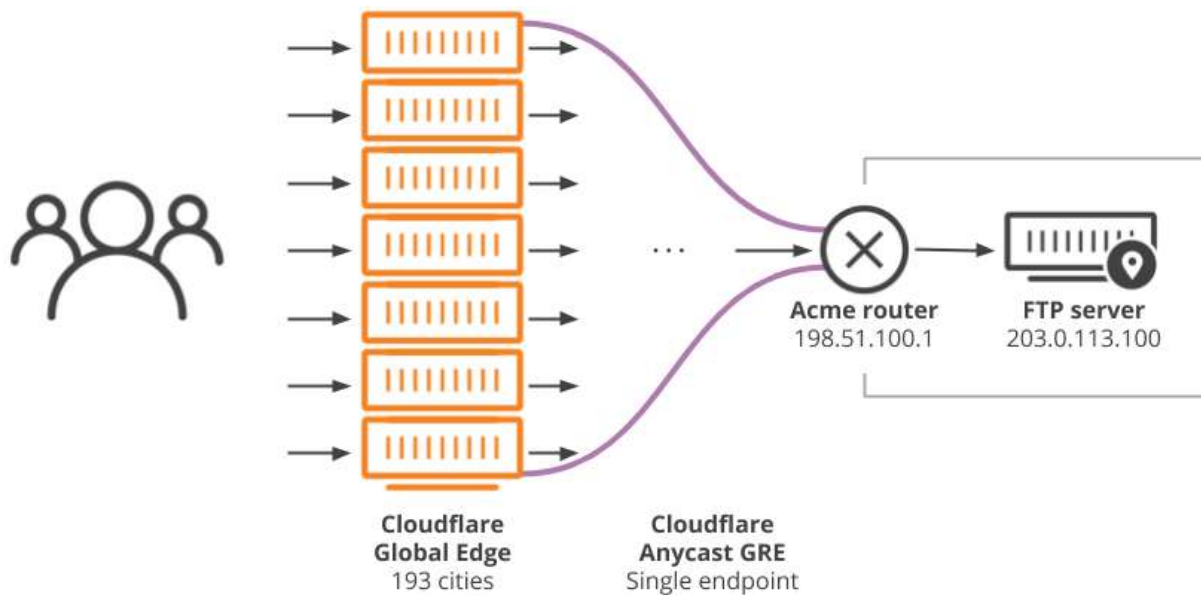


Connect

Protect & Process

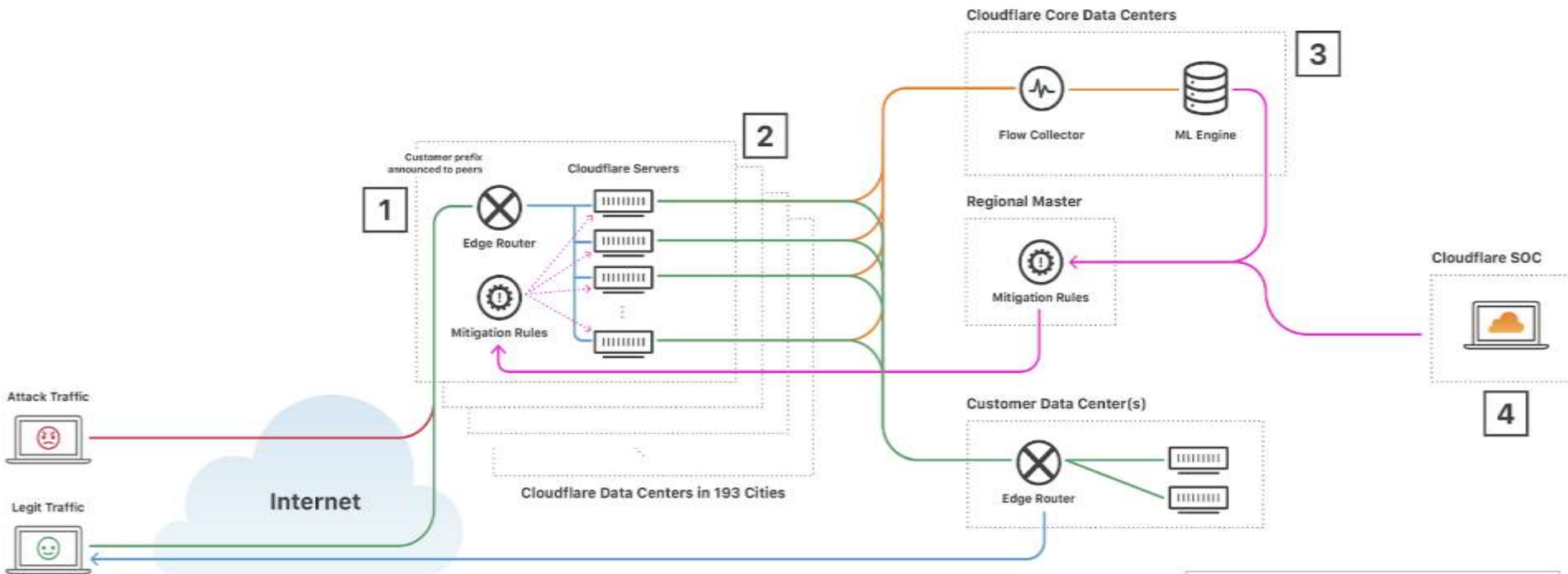
Accelerate

Isn't a tunnel point to point?



1. GRE is stateless
2. packets are processed independently
3. the tunnel is bound to an *IP address*, not a *specific device*

DDoS mitigation methodology



1) Static rules (traffic you never want to see)

Mean time to respond: 0 seconds

2) Edge mitigations

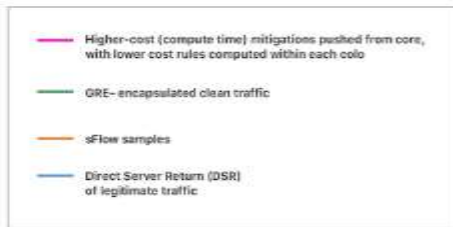
MTTR: < 10 seconds

3) Core analyzed/edge enforced mitigations

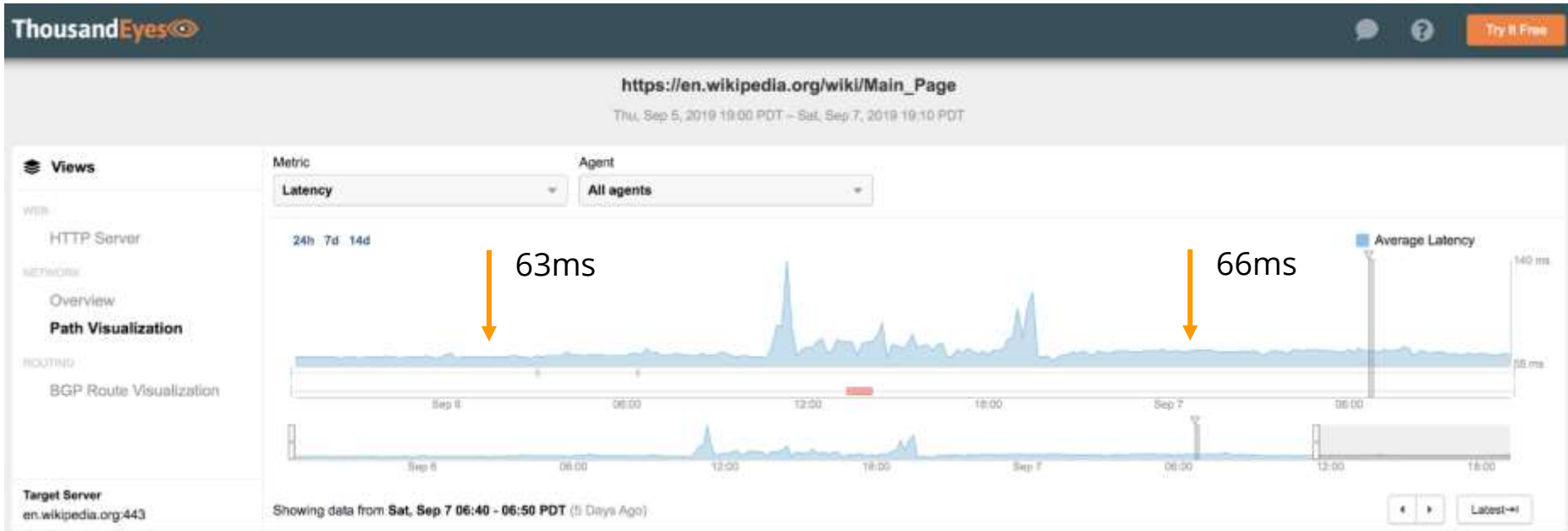
MTTR: < 5 minutes

4) SOC in the loop/paging escalation

MTTR: < 15 minutes



An example: **wikipedia.org**



Summary



Get rid of network perimeter hardware

DDoS protection, network firewall, traffic acceleration, as a service



Drive down your TCO

Pay exactly for only what you use. Get operational agility with VNFs delivered and billed as a service



Get security + performance for your networks

Cloudflare has a physical presence in over 193 cities across 90 countries.

THANK YOU

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