

Introduction to Cloudflare

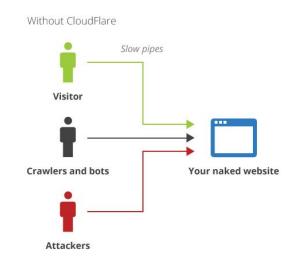
Jérôme Fleury

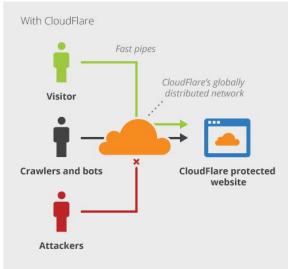
BNIX meeting, Thursday 29th 2016, Brussels.

What is Cloudflare?

Cloudflare makes websites faster and safer using our globally distributed network to deliver essential services to any website

- Performance
- Content
- Optimisation
- Security
- 3rd party services
- Analytics







How does Cloudflare work?

Cloudflare works at the network level

Once a website is part of the Seattle Seattle

 At each edge node, Cloudflare manages DNS, caching, bot filtering, web content optimisation and third party app installations.





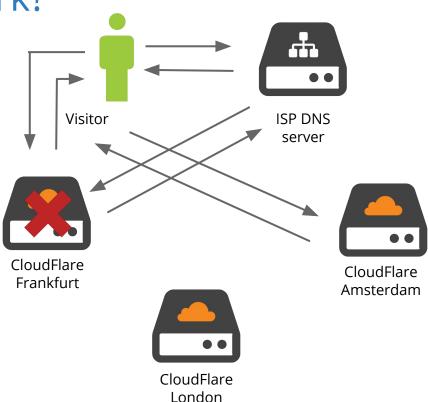
How does Cloudflare work?

How does it work?

- DNS Query to anycast DNS address
- DNS result returned with Anycast IP
- Client makes connection to returned
 IP
- Cloudflare replies, session established

What happens in the event of an outage?

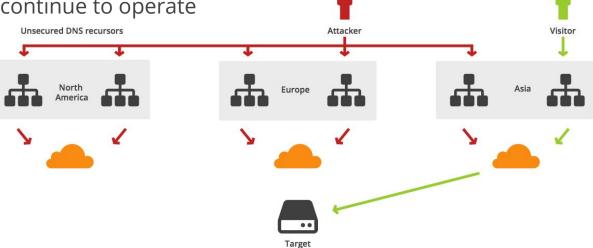
- Anycast prefixes are withdrawn from problematic PoP
- Traffic re-routes to next closest PoP
 - TCP session resets at this point



Cloudflare works globally

Cloudflare protects globally

 DDoS attack traffic is localised and lets other geographic areas continue to operate







Brussels, Belgium: CloudFlare's 81st Data Center is Live!

13 Jun 2016 by Nitin Rao.

Tweet





Our week begins in Brussels, where we announce our newest data center. This is our 23rd data center in Europe alone, and our 81st data center globally - providing additional



Amsterdam to Zhuzhou: Cloudflare network expands to 100 cities

26 Sep 2016 by Nitin Rao.

Tweet

We're excited to kick off Cloudflare's sixth birthday celebrations by announcing data center locations in 14 new cities across 5 continents. This expansion makes our global network one of the largest in the world, spanning 100 unique cities across 49 countries. Every new Cloudflare data center improves the performance, security and reliability of millions of websites, as we expand our surface area to fight growing attacks and serve web requests even closer to the Internet user.

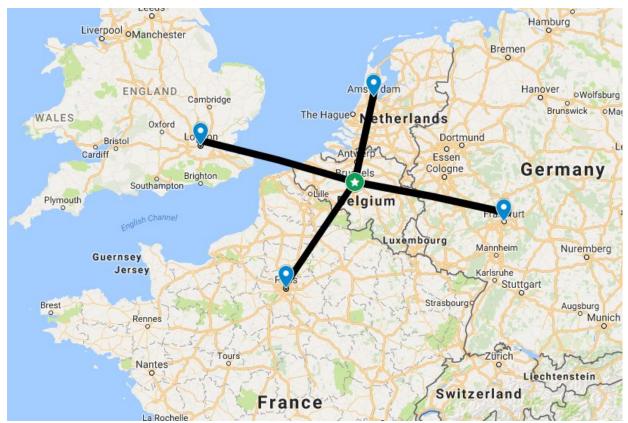
Each birthday has given us the opportunity to thank our customers with new announcements, from our automatic IPv6 Gateway to making SSL free and easy for all to unveiling our China network. Launching 14 new data center locations is one of many gifts to our users we'll reveal this week.





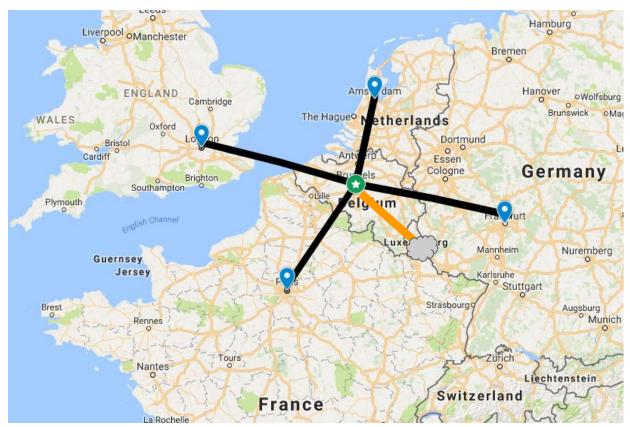
Why Brussels?

Offload our biggest neighboring POPs





Our next Data platform





What are our requirements?



a neutral datacenter interxion



What are our requirements?



a neutral datacenter interxion



Diversity of partners to interconnect to: transits, eyeballs networks, customers

Telia Carrier







What are our requirements?



a neutral datacenter interxion



Diversity of partners to interconnect to: transits, eyeballs networks, customers





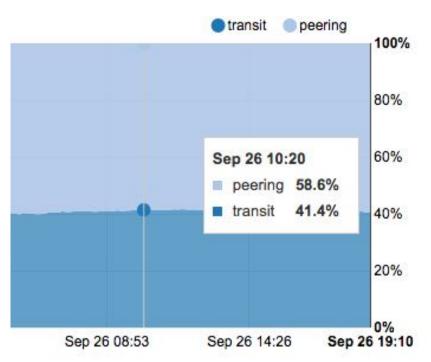


A recognized peering platform

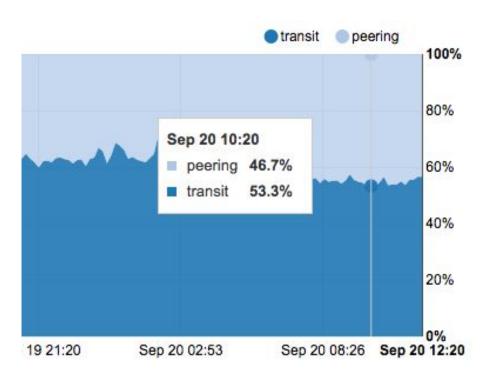




Europe



Belgium









THE FUTURE IS FOREVER · WORLD IPv6 LAUNCH ·

ready achieved an wing continued

cable

MONTHLY IPV6 MEASUREMENTS: BELGIUM'S TELENET JOINS THE IPV6 CLUB! Posted on February 19, 2014 by Mat Ford

World IPv6 Launch network operator measurements for February 2014 have just been published and we're delighted entrant in the form of Belgium's 7 impressive deplo t a brand new

Cisco moving VOO to IPv6

FEBRUARY 13, 2012 09.46 EUROPE/LONDON BY JULIAN CLOVER









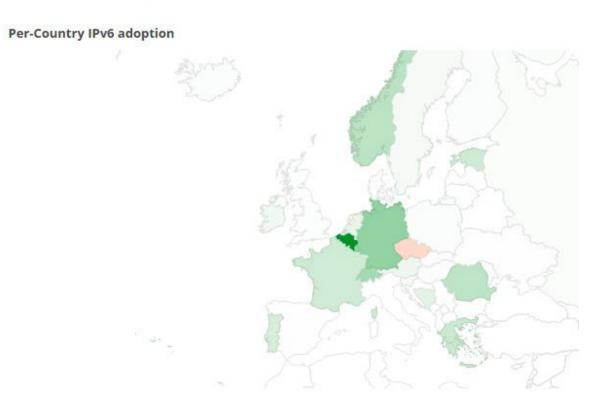






Cisco has announced plans to migrate the Belgian cablenet VOO IPv6 Internet Protocol.

Seen from Google





IPv6 in Belgium

From CloudFlare point of view, Belgium is #1 in IPv6 traffic



O Last 1 year IPv6 percents per country Metric Avg -BE 29.05% 26.03% IE HK 8.38% PT 8.37% DE 7.67% LR 6.43% EC 6.38% CH 6.29% LU 6.27% GR 5.59% EE 5.38% PE 4.67% FI 4.28% Al 3.52% US 3.31% FR 3.20% BR 3.11% ID

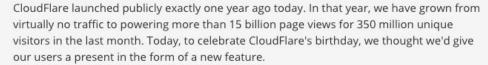


Introducing CloudFlare's Automatic IPv6 Gateway

27 Sep 2011 by Matthew Prince.

Tweet







Questions?



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