



IPv6 Deployment Statistics and v6 Adoption

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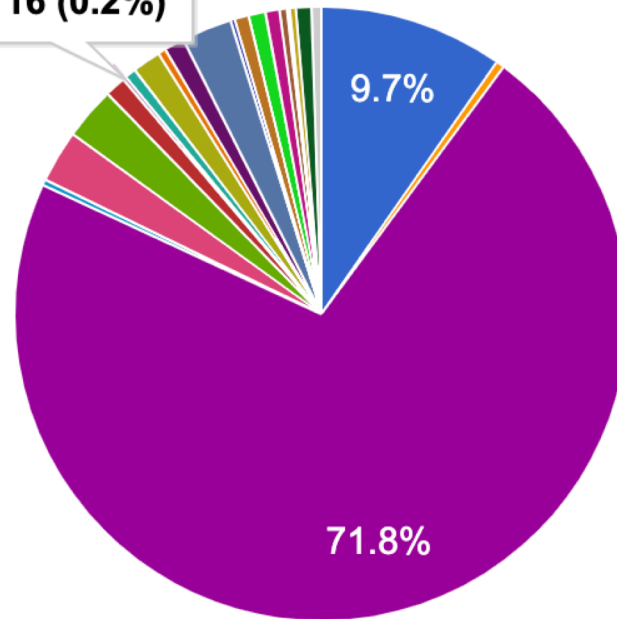
First: Many ways
to perform IPv6
measurements

Let's review some
"basic" IPv6 stats
(registry)

Registry (1/4) – IPv4 by country

Distribution of IPv6 blocks

CW
16 (0.2%)



- AR
 - BO
 - BR
 - BZ
 - CL
 - CO
 - CR
 - CW
 - DO
- ▲ 1/3 ▼

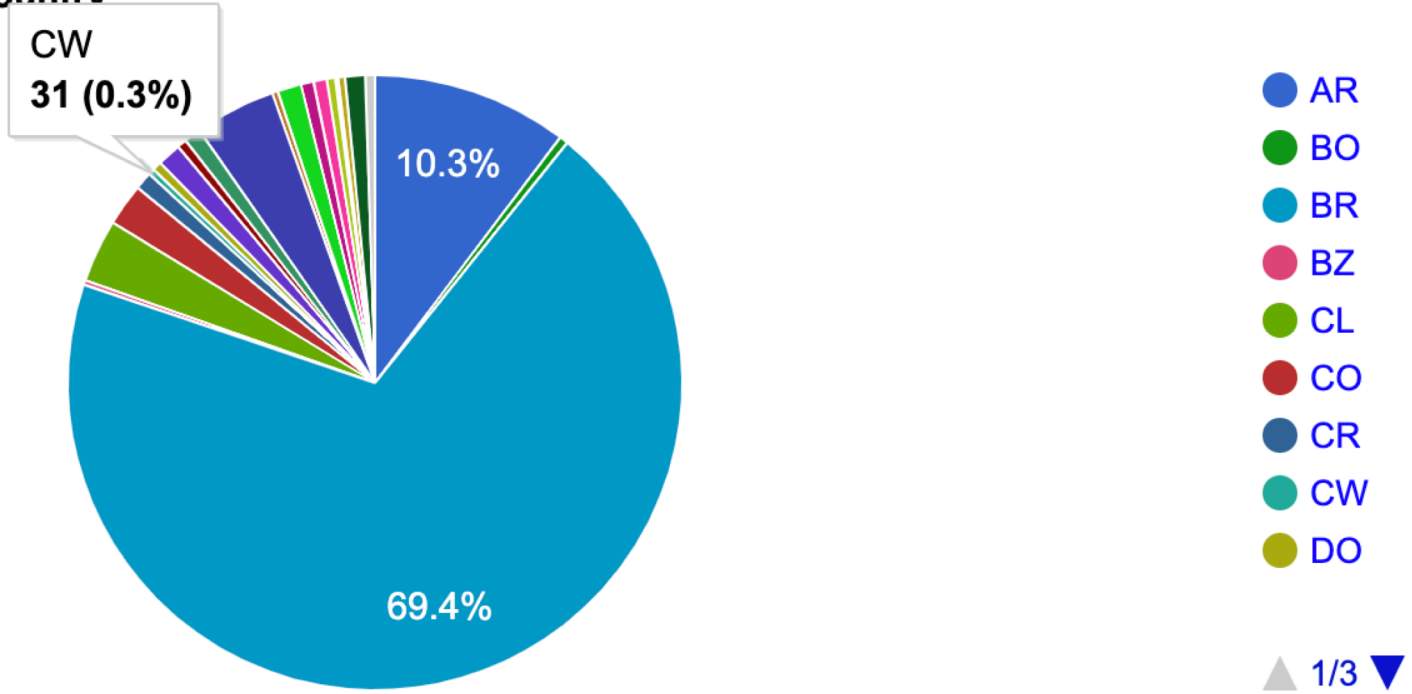
Fuente:

<http://stats.labs.lacnic.net/REGISTRO/index-es.html>



Registry (2/4)

Distribution of ASN per country

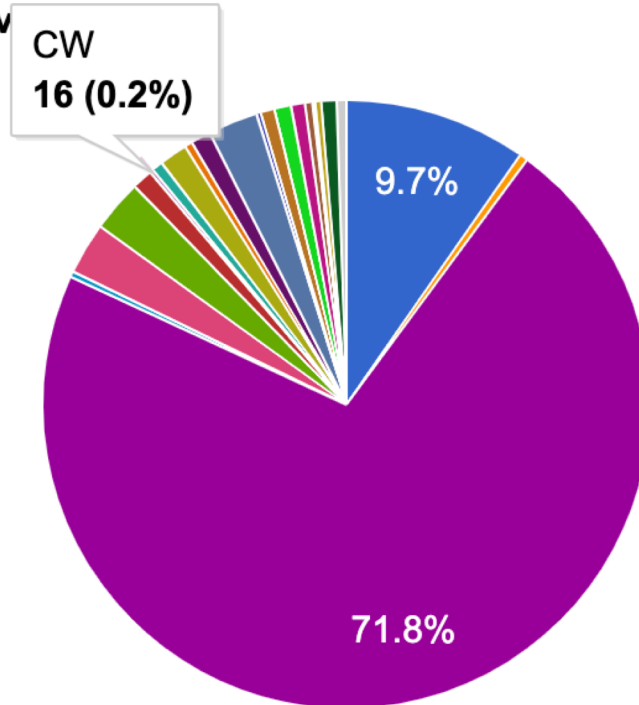


Fuente:
<http://stats.labs.lacnic.net/REGISTRO/index-es.html>



Registry (3/4) – IPv6 by country

Distribución de bloques IPv6



- AR
- BO
- BR
- BZ
- CL
- CO
- CR
- CW
- DO

▲ 1/3 ▼

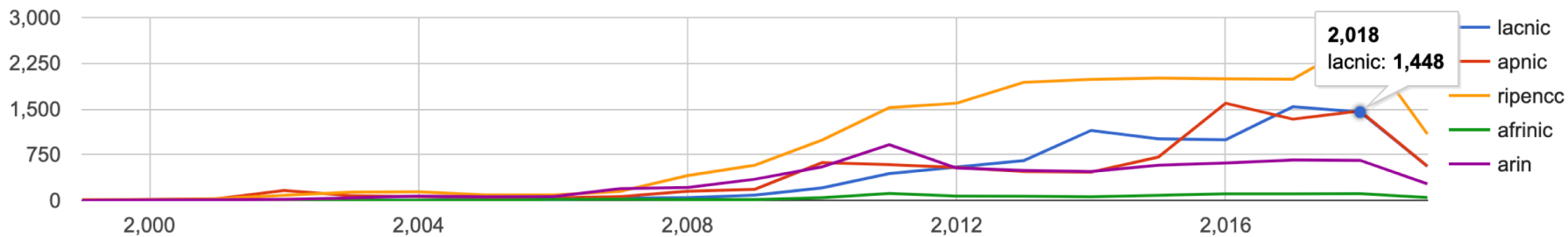
Fuente:

<http://stats.labs.lacnic.net/REGISTRO/index-es.html>



Registry (4/4)

Asignaciones de IPv6 x RIR x Año



Fuente:

<http://stats.lacnic.net/REGISTRO/ipv6xrirxano.html>



Wait a second:
how do we find
those numbers
(registry)?

How do we find IPv6 registry stats

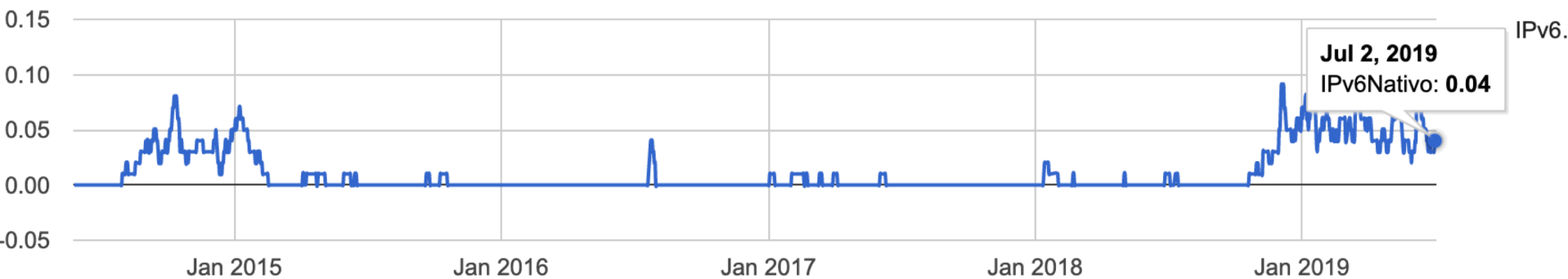
We process a very “famous” file called: delegated-extended, you can find it right here:

<ftp.lacnic.net/pub/stats/lacnic/delegated-lacnic-extended-latest>

Now move on and
let's check some
IPv6 from the end-
users perspective

Curacao specific

Summary for: CW



Fuente:

<http://stats.lacnic.net/IPv6/graph-access.html>

IPv6 Ranking

ripencc APNIC AFRINIC ARIN LACNIC Worldwide

#	RIR	Pais	IPv6
1	LACNIC	UY	36.09
2	LACNIC	GF	32.76
3	LACNIC	BR	27.65
4	LACNIC	MX	26.54
5	LACNIC	TT	21.03

Fuente:

<https://stats.labs.lacnic.net/IPv6/ipv6ranking.html>



Promedio penetración de IPv6 en el usuario final - LAC

Summary for: ALL



Fuente:

<http://stats.labs.lacnic.net/IPv6/graph-access.html>

Measuring IPv6 in the End User



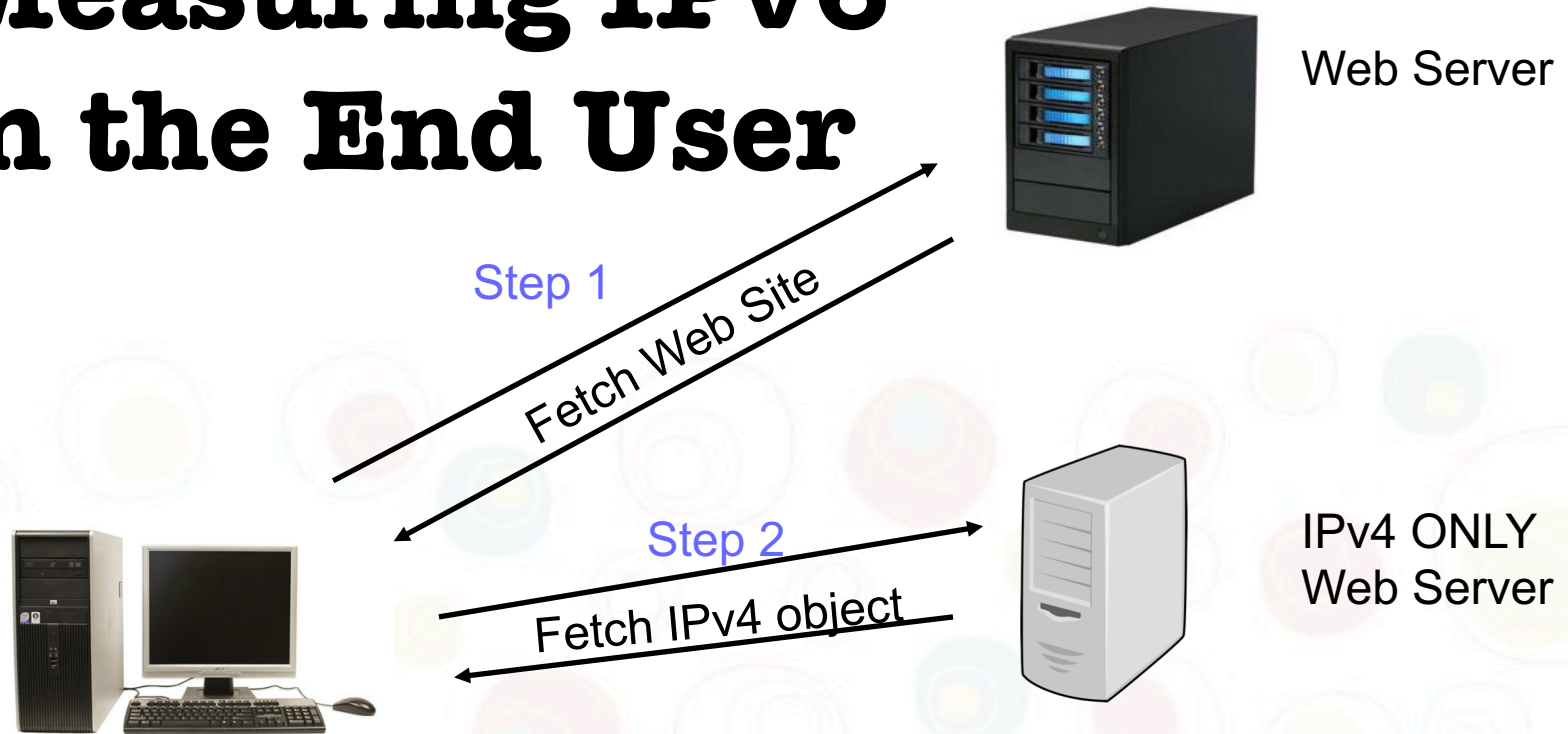
Web Server

Step 1

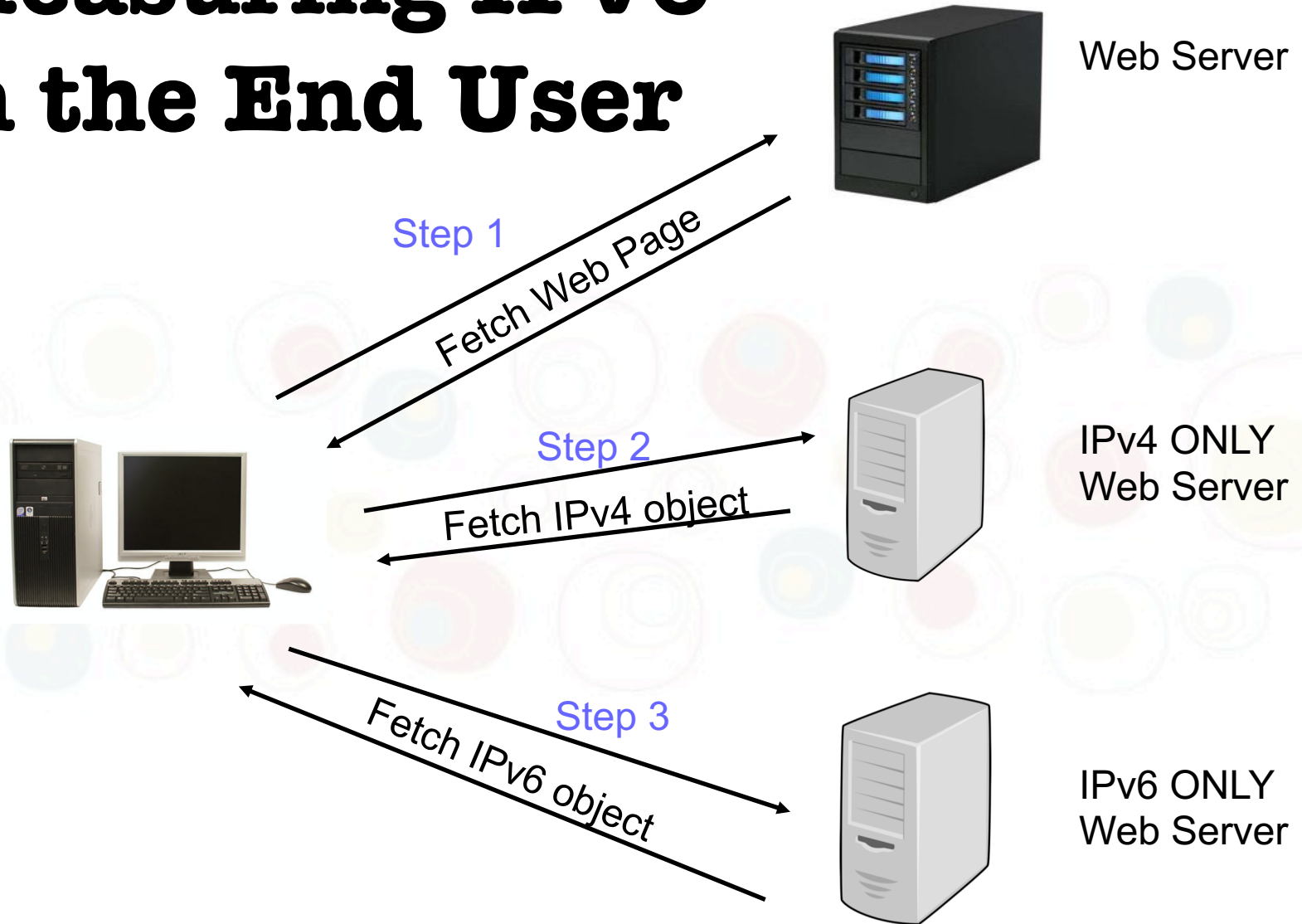
Fetch Web Site



Measuring IPv6 in the End User



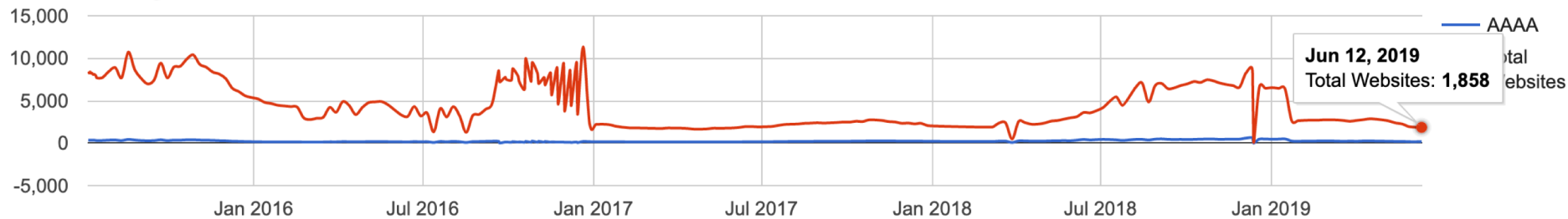
Measuring IPv6 in the End User



Content in IPv6?

Websites with IPv6 in the region (out of 1 mm)

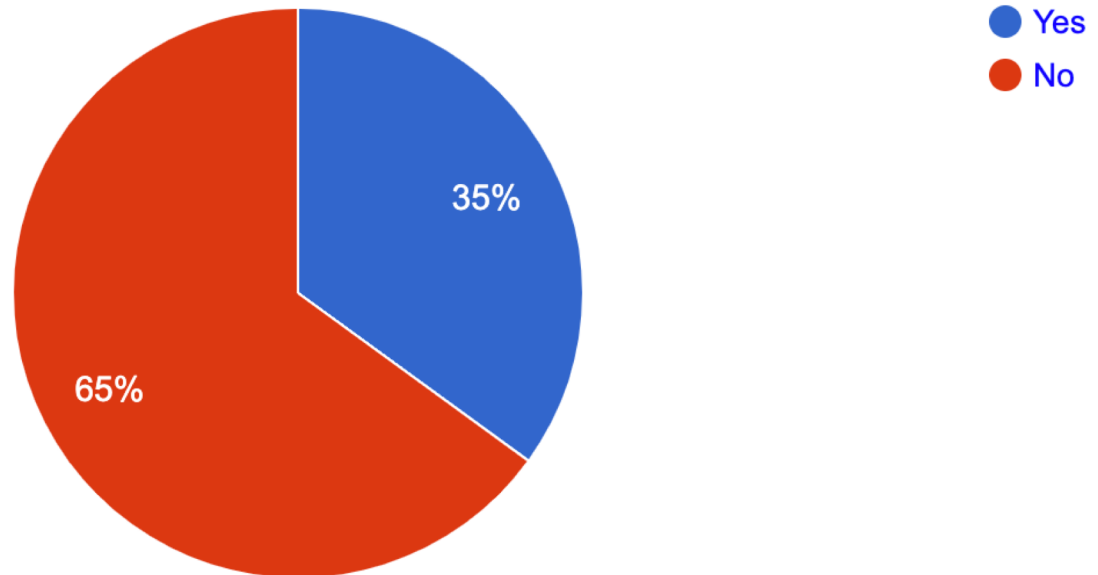
Looking for current websites in LAC with AAAA



blue line: 180

How many of those websites point to Lacnic's IP addresses

% of Domain Name having at least one AAAA pointing to IPs of Lacnic



(more stats)
... now about BGP ...

Number of v6 prefixes

Summary for: AW



Summary for: CR



Summary for: SV



Average v6 announcement

Summary for: TT



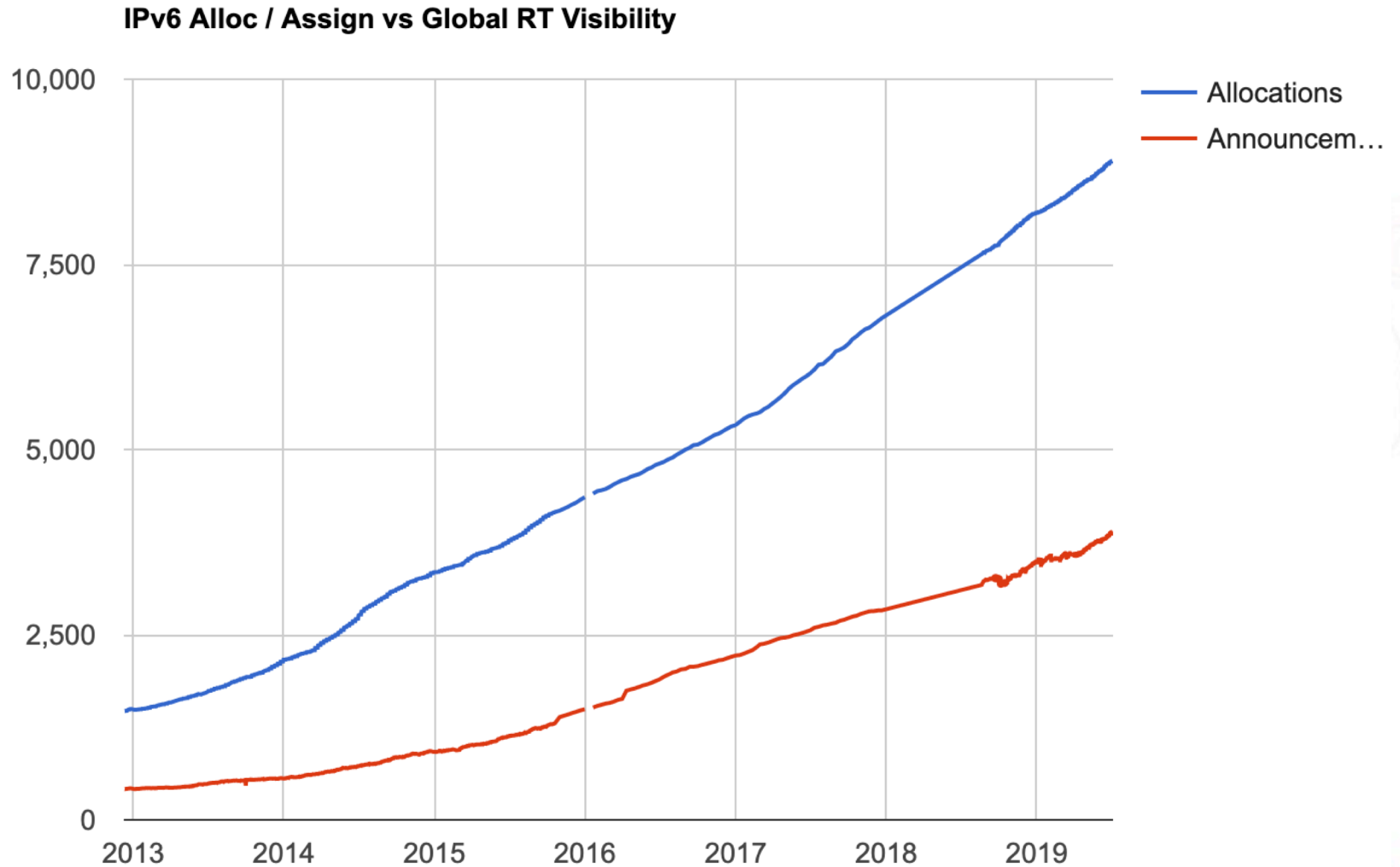
Summary for: PE



Summary for: BO



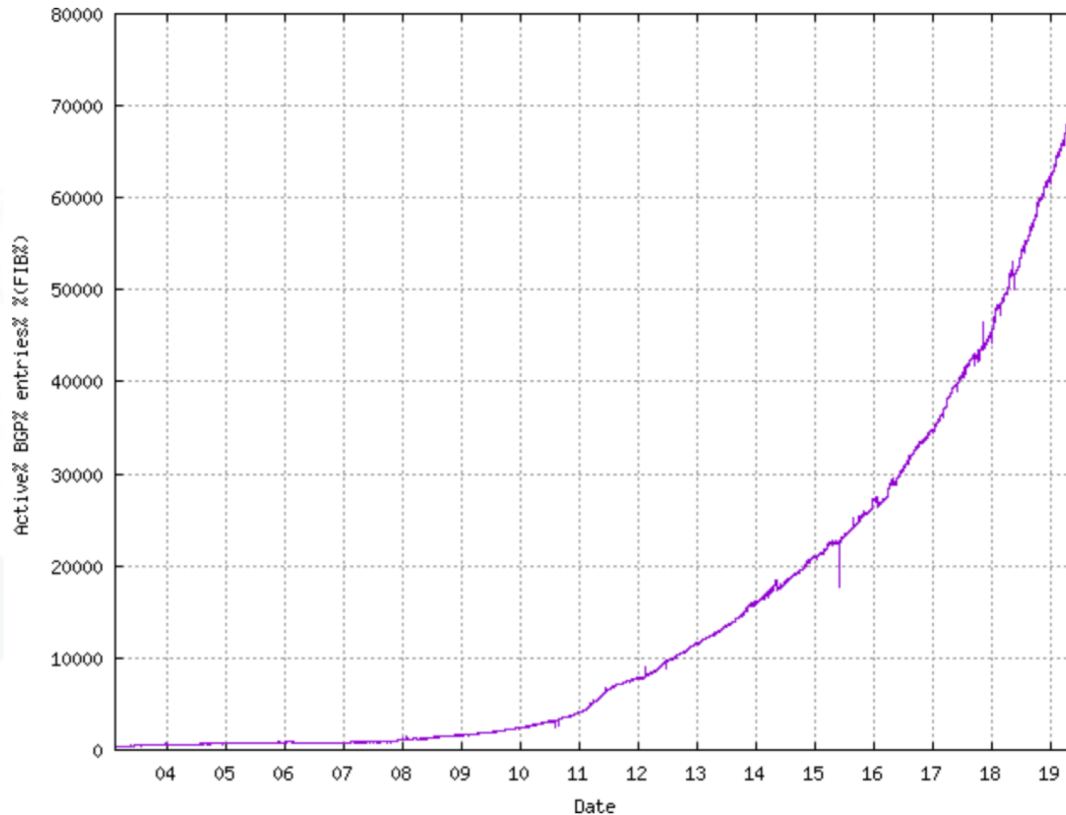
Assigned vs seen in table



<http://opendata.labs.lacnic.net/ipv6stats/graphs/ipv6evo.html>

Prefixes in the DFZ

Active% BGP% entries% %(FIB%)



Plot Range: 10-Feb-2003 0910 to 03-Jul-2019 0703

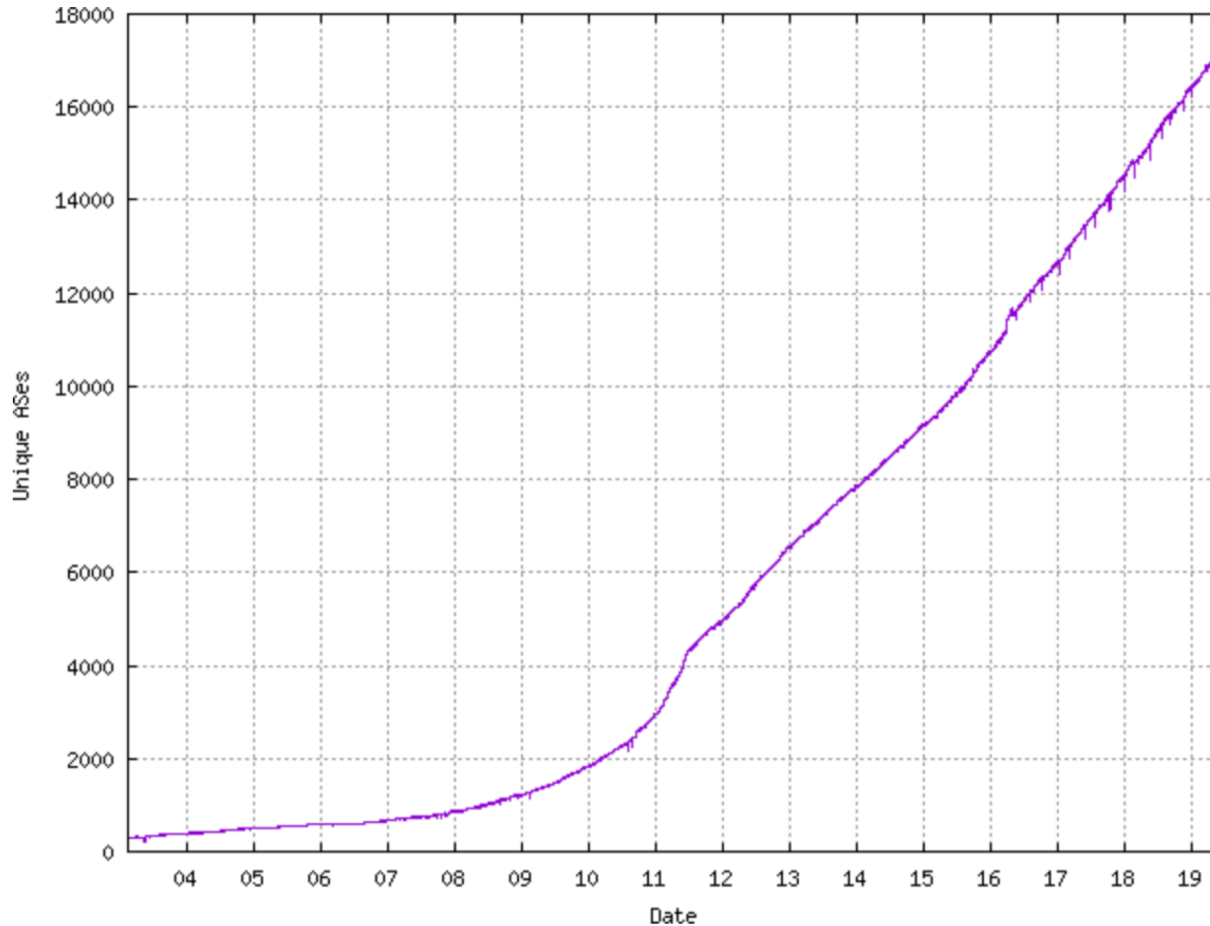
DFZ = Default free zone

<http://www.cidr-report.org/cgi-bin/plota?file=%2fvar%2fdata%2fbgp%2fv6%2fas2.0%2fbgp-active%2etxt&descr=Active%20BGP%20entries%20%28FIB%29&ylabel=Active%20BGP%20entries%20%28FIB%29&with=step>



Unique ASs

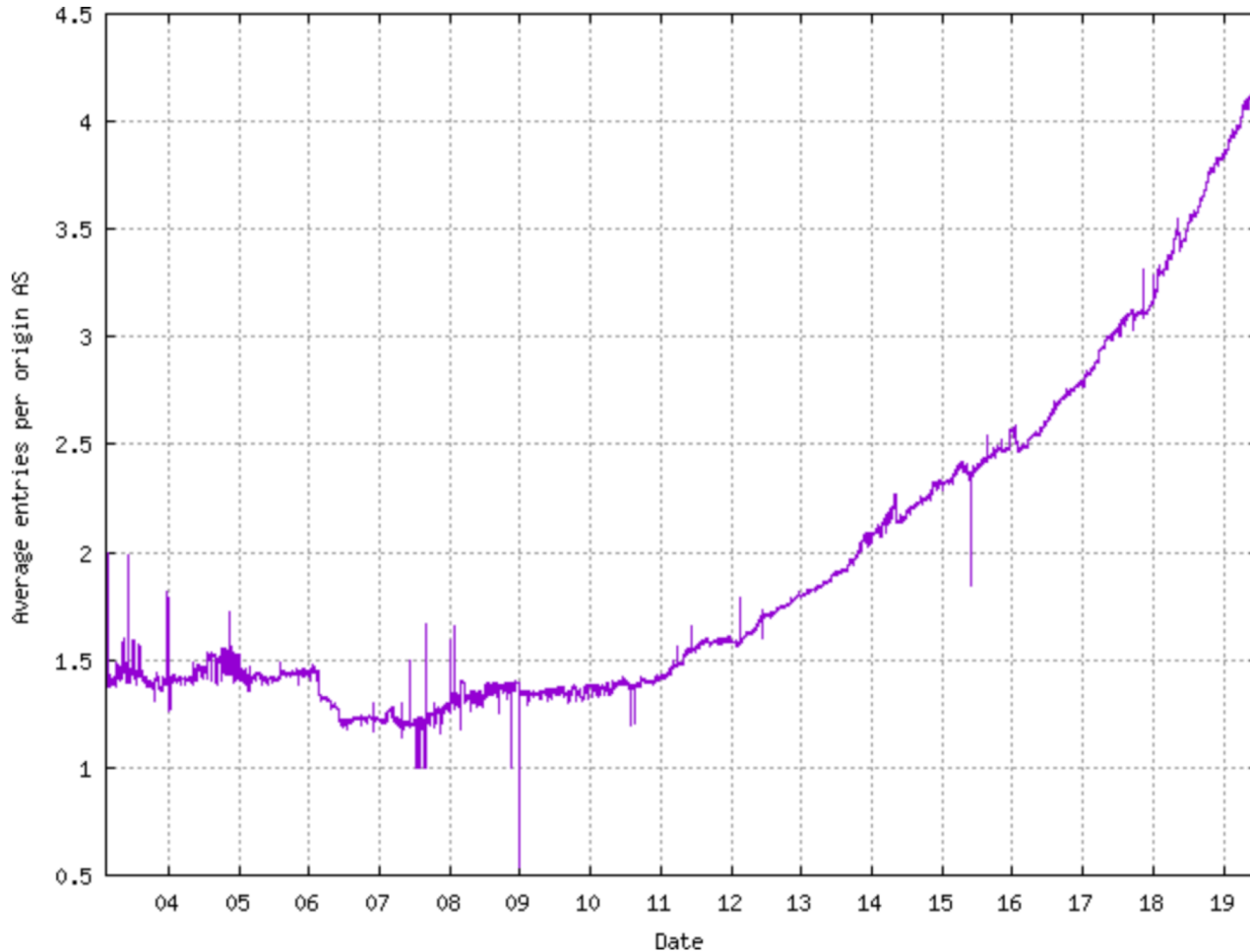
Unique ASes



Plot Range: 10-Feb-2003 0910 to 03-Jul-2019 0703

<http://www.cidr-report.org/cgi-bin/plota?file=%2fvar%2fdata%2fbgp%2fv6%2fas2.0%2fbgp-as-count%2etxt&descr=Unique%20ASes&ylabel=Unique%20ASes&with=step>

Average entries per origin AS



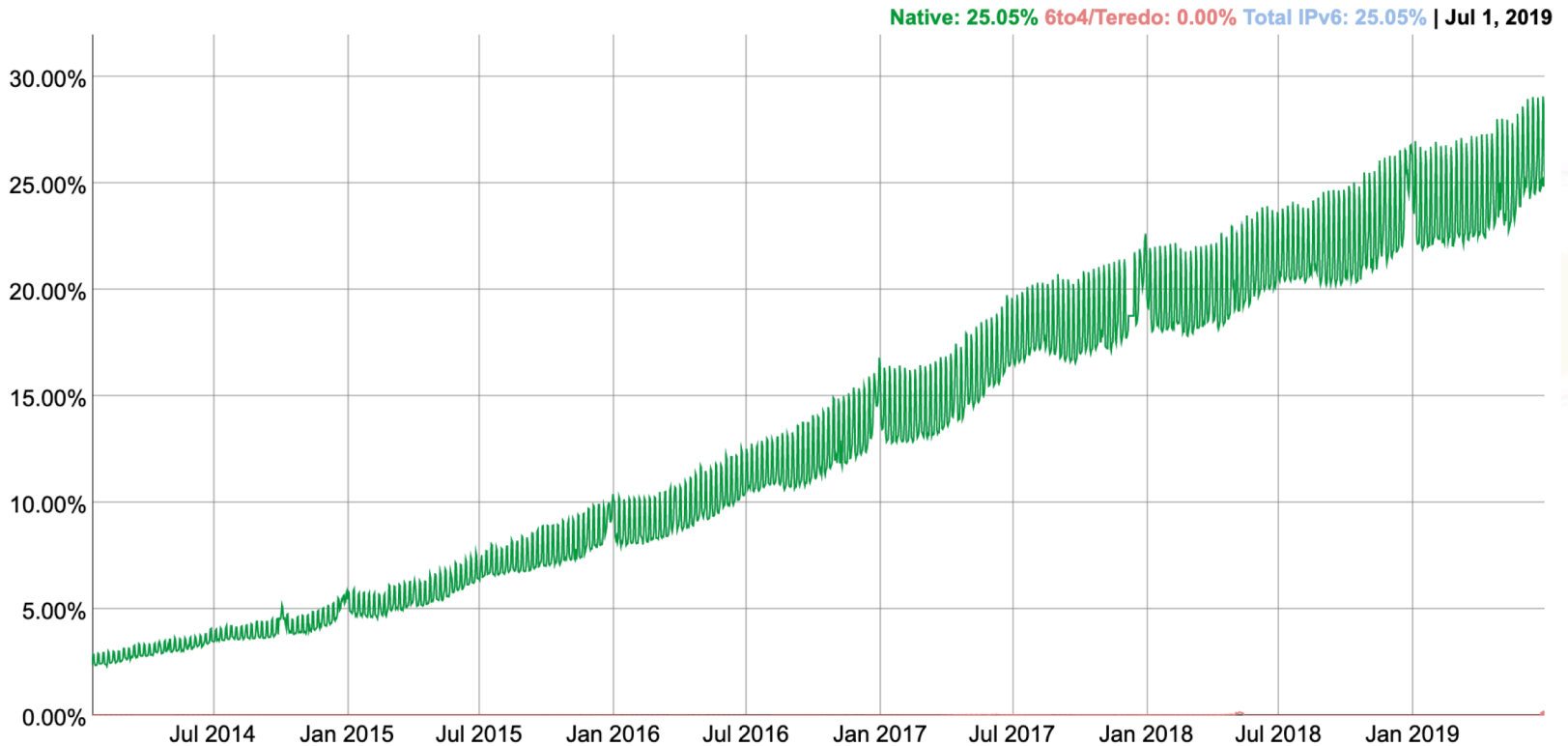
Plot Range: 10-Feb-2003 0910 to 03-Jul-2019 0703

<http://www.cidr-report.org/cgi-bin/plota?file=%2fvar%2fdata%2fbgp%2fv6%2fas2.0%2fbgp-entries-as%2etxt&descr=Average%20entries%20per%20origin%20AS&ylabel=Average%20entries%20per%20origin%20AS&with=step>

Finally



Worldwide IPv6 Stats (google)



<https://www.google.com/intl/es/ipv6/statistics.html>

¿ Questions / comments ?