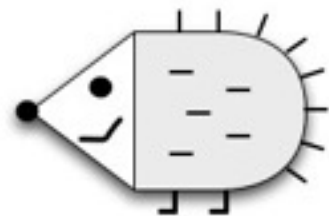


Hedgehog



RIPE 69

London, November 2014

Sara Dickinson
sara@sinodun.com

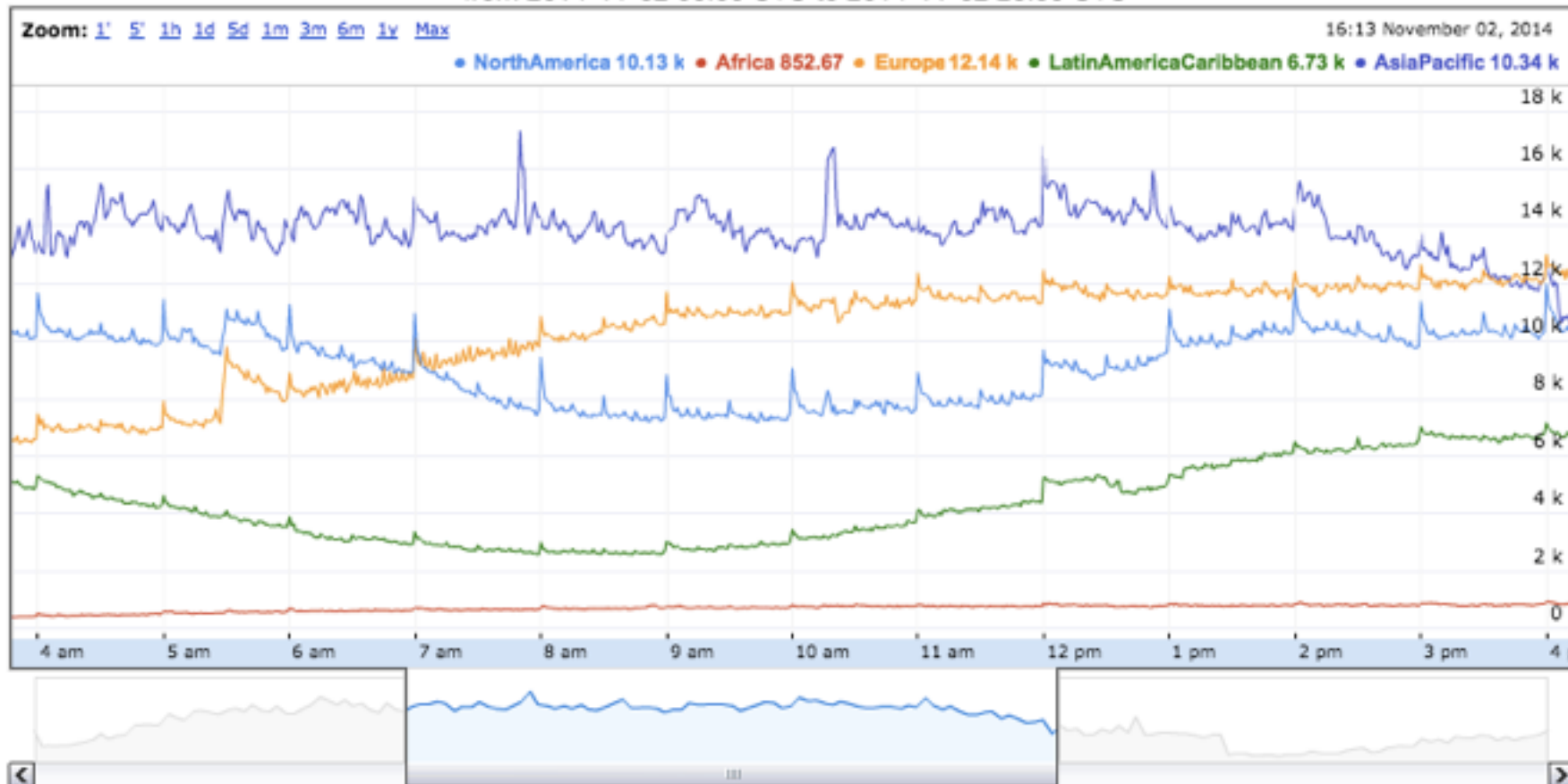


ICANN DNS Operations Team

What is Hedgehog?

- Alternative presenter software for DNS real-time traffic data gathered with the DSC collector (RIPE 67 presentation).
- Developed last year for ICANN by Sinodun. Why needed?
 - L-root has grown - a lot (hundreds of nodes)
 - DSC presenter didn't scale - needed solution that could be extended to do further analysis of data
- ICANN using 1.x in production since mid 2013:
 - <http://hedgehog.dns.icann.org/hedgehog/hedgehog.html>

Queries by node from 2014-11-02 00:00 UTC to 2014-11-02 23:59 UTC



Servers L-root ⌵

All ● Africa ● AsiaPacific ● Europe ● LatinAmericaCaribbean ● NorthAmerica ●

Actions: Select all nodes De-select all nodes

abj01	abj02	ak101	ak141	ak142	ak143	ak144	ams01	ams41	ams42	ams43	ams44	anc01	arn01	at101	at141	at142
at143	at144	bah01	bcn01	beg01	bel01	ber41	ber42	ber43	ber44	bey01	bfh01	bne01	bog01	bog02	bos41	bos42
bos43	bos44	bos60	bos61	bru01	bsb01	bur41	bur42	bur43	bur44	byk01	cai41	cai42	cai43	cai44	ccp01	cdg01
chc01	cjr01	cnf01	cph01	cpt01	cpt41	cpt42	cpt43	cpt44	dac41	dac42	dac43	dac44	den01	dev1	dkr01	dmm01
dnd01	dtm01	dub41	dub42	dub43	dub44	dus01	dxb01	dxb02	dxb41	dxb42	dxb43	dxb44	esb01	evn01	eze41	eze42

Hedgehog

Version 1.1.1 [?](#)

From Sun, 02 Nov 2014 00:00:00 UTC
To Sun, 02 Nov 2014 23:59:00 UTC

Basic Time | Advanced time

Today

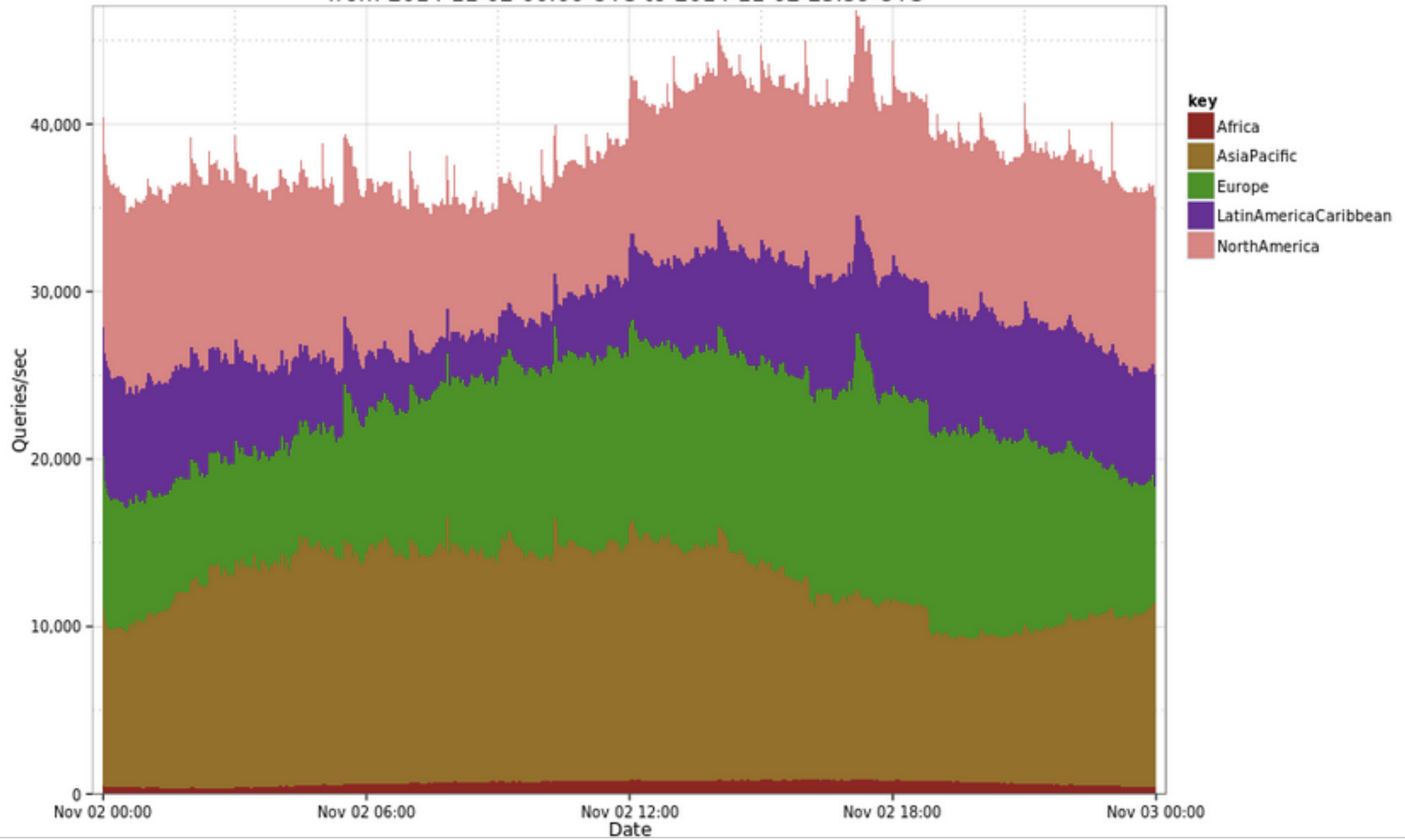
+<	<	1 hr	4 hrs	12 hrs	>	>+
		day	week	month		

Static plot Interactive plot

Plot

Linear scale Log scale Stacked linear

Queries by node
from 2014-11-02 00:00 UTC to 2014-11-02 23:59 UTC



Hedgehog features

- Importer written in C++ and is a drop in replacement for DSC's dsc-extractor.pl
- Import XML or DAT to a Postgres DB
- Web interface uses R, jquery and GoogleViz
 - R is a statistical analysis language
- Interactive (groovy) and static (pretty) graphs
- Multiple servers
- RSSAC reports (yaml) for 4 traffic metrics

Open Source status

- Open source beta release of 2.0.0 (Sep 2104)
 - Apache v2.0 license
 - website & mailing list: www.dns-stats.org
 - code: <https://github.com/dns-stats/hedgehog>
- Production release and active development planned