



# IPv6 Council

Meetup #1: SRv6

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7

Nov 2019

# Agenda

WELCOME



SRV6 IN LINUX BY  
MATHIEU JADIN



SRV6 INTRODUCTION  
BY BERTRAND  
DUVIVIER



SOCIAL

# RIPE 79 update

- RIPE 79: IPv4 run-out, run-out, run-out...
  - 14-Sep-2012 RIPE NCC has less than one /8
  - 2-Oct-2019 RIPE NCC has no more /22 prefixes
- Susan Forney [researched the IPv6 adoption in ten European IXPs](#) and was not satisfied by what she found.
- Veronika McKillop gave an [excellent presentation](#) about IPv6-only deployment at Microsoft. Her statement that enterprise networks can deploy IPv6-only networks (instead of dual-stack) if they overcome the application layer problems also won kudos on Twitter.
- Enno Rey gave [a solid overview](#) of the different types of IPv4 and IPv6 addresses, their differences and similarities.
- [The presentation from Jens Link](#) shed light on the recent discussions on the mailing list and explained how IPv6 is perceived amongst newcomers.
- And finally, Jen Linkova [called for ideas and actions](#) for the IPv6 working group.

# IPv4 exhaustion recap

## IPv4 Address Report

This report generated at 30-Oct-2019 08:54 UTC.

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IANA Unallocated Address Pool Exhaustion:  
**03-Feb-2011**

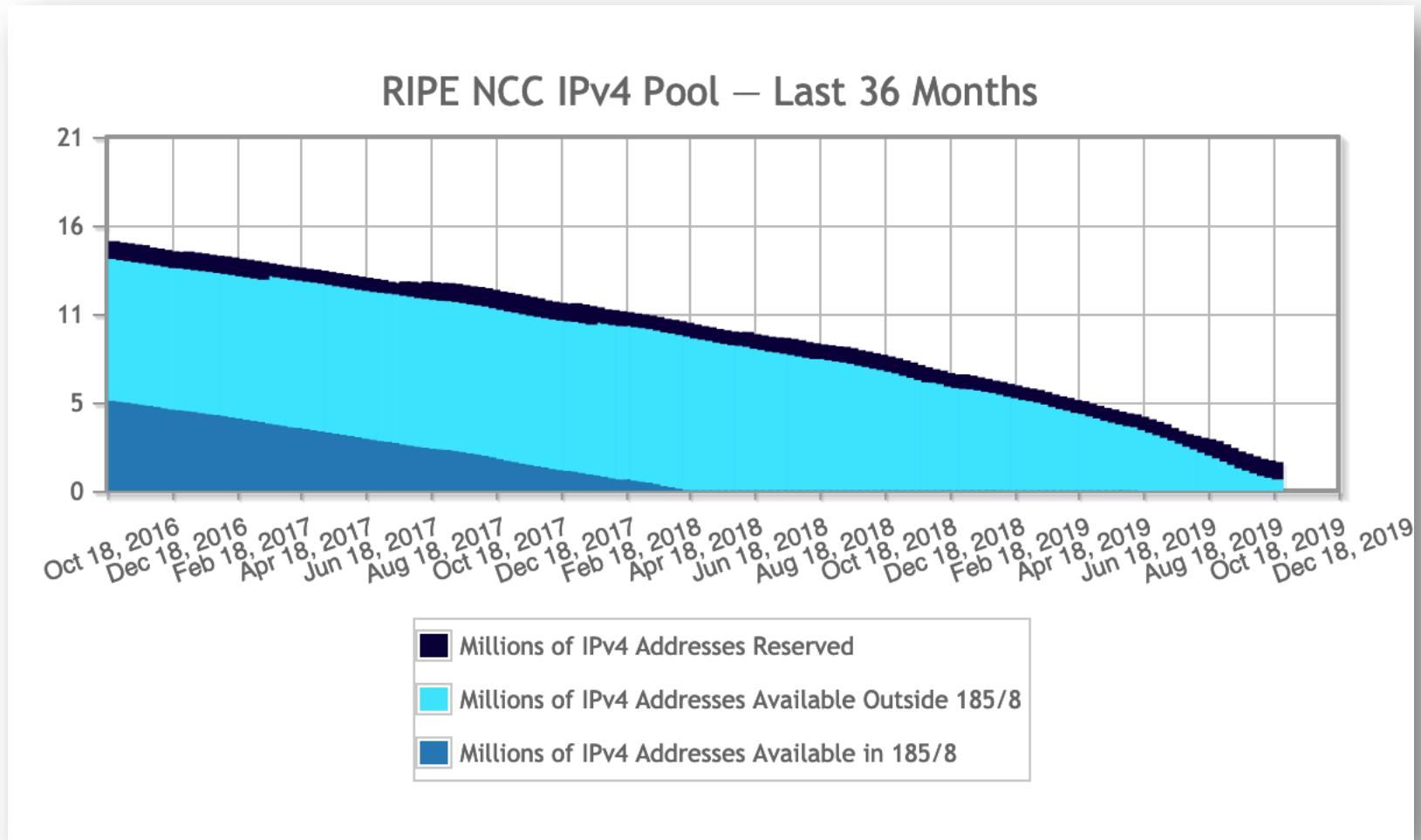
Projected RIR Address Pool Exhaustion Dates:

RIR	Projected Exhaustion Date	Remaining Addresses in RIR Pool (/8s)
APNIC:	<b>19-Apr-2011</b> (actual)	0.1850
RIPE NCC:	<b>14-Sep-2012</b> (actual)	0.0361
LACNIC:	<b>10-Jun-2014</b> (actual)	0.0158
ARIN:	<b>24 Sep-2015</b> (actual)	0.0002
AFRINIC:	<b>22-Mar-2020</b>	0.2348

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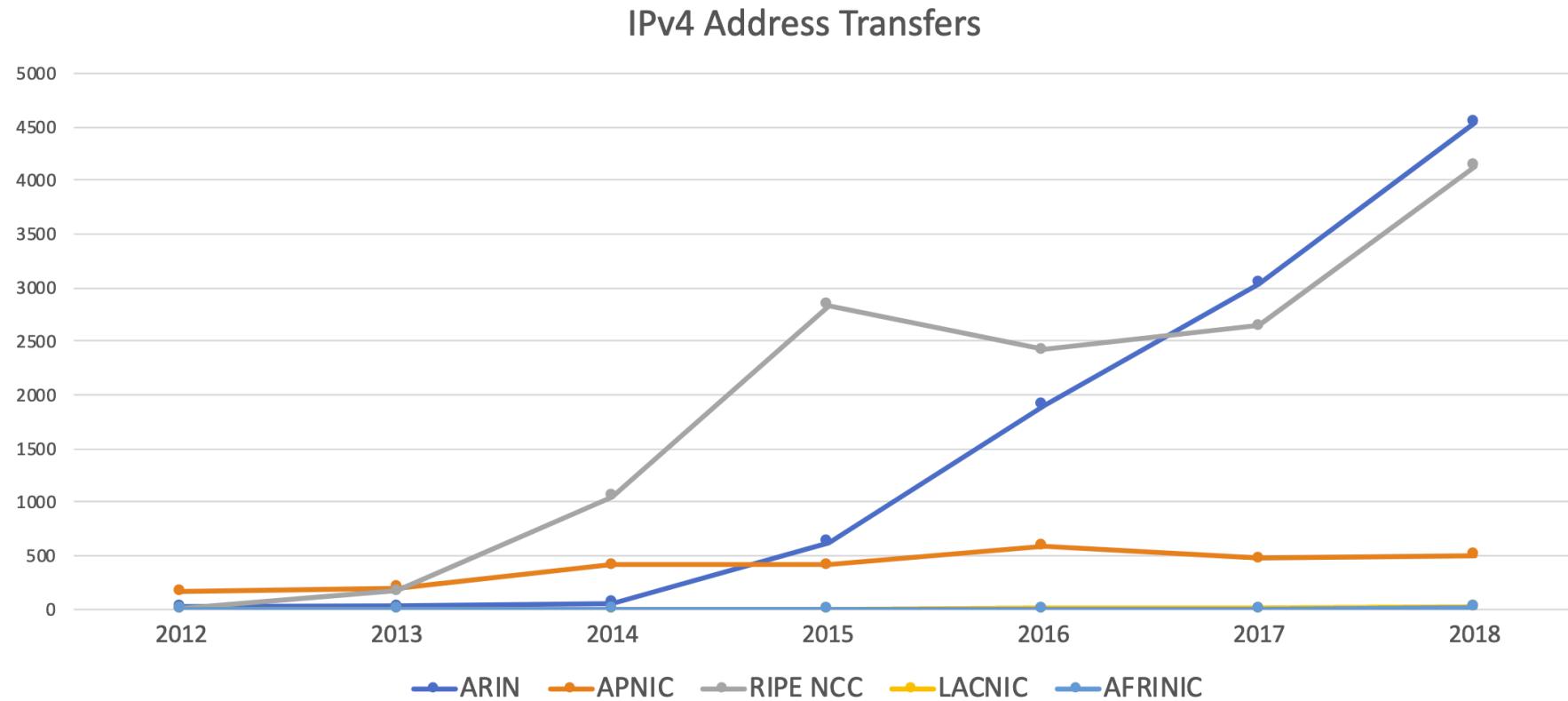
<https://ipv4.potaroo.net/>

# RIPE NCC IPv4 Pool



<https://www.ripe.net/manage-ips-and-asns/ipv4/ipv4-available-pool>

# IPv4 address transfers

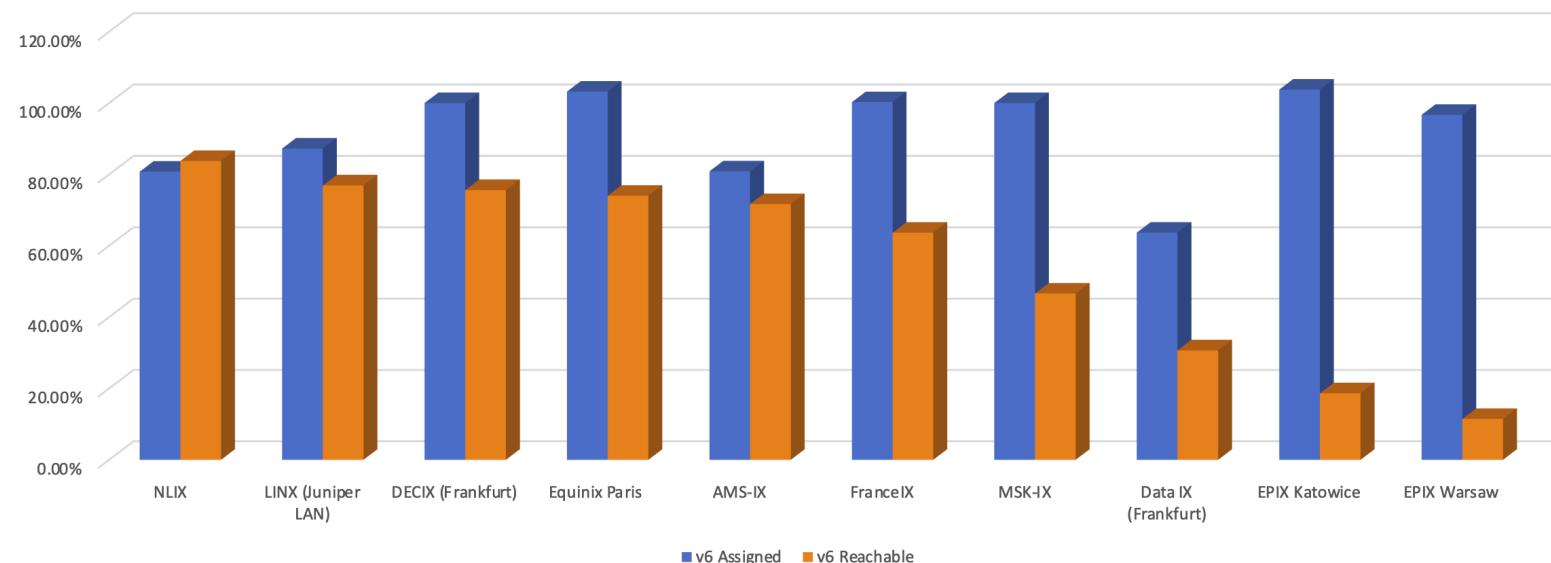


<https://ripe79.ripe.net/presentations/9-IPv6-Adoption-in-IXs-RIPE-79.pdf>  
<https://www.potaroo.net/ispcol/2019-01/addr2018.html>

# IPv6 Update

## IPv6 Adoption at the top European IXs

Reachable IPv6 in Top European IXs

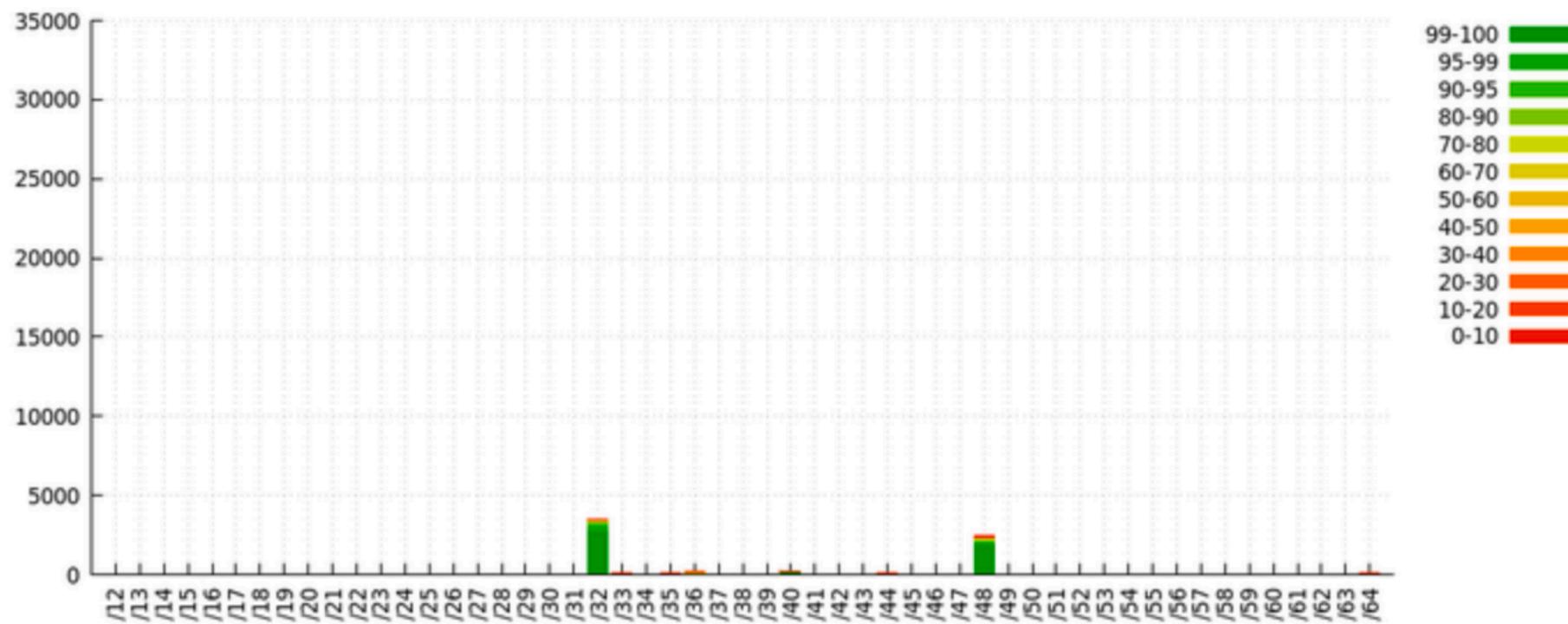


<https://ripe79.ripe.net/presentations/9-IPv6-Adoption-in-IXs-RIPE-79.pdf>

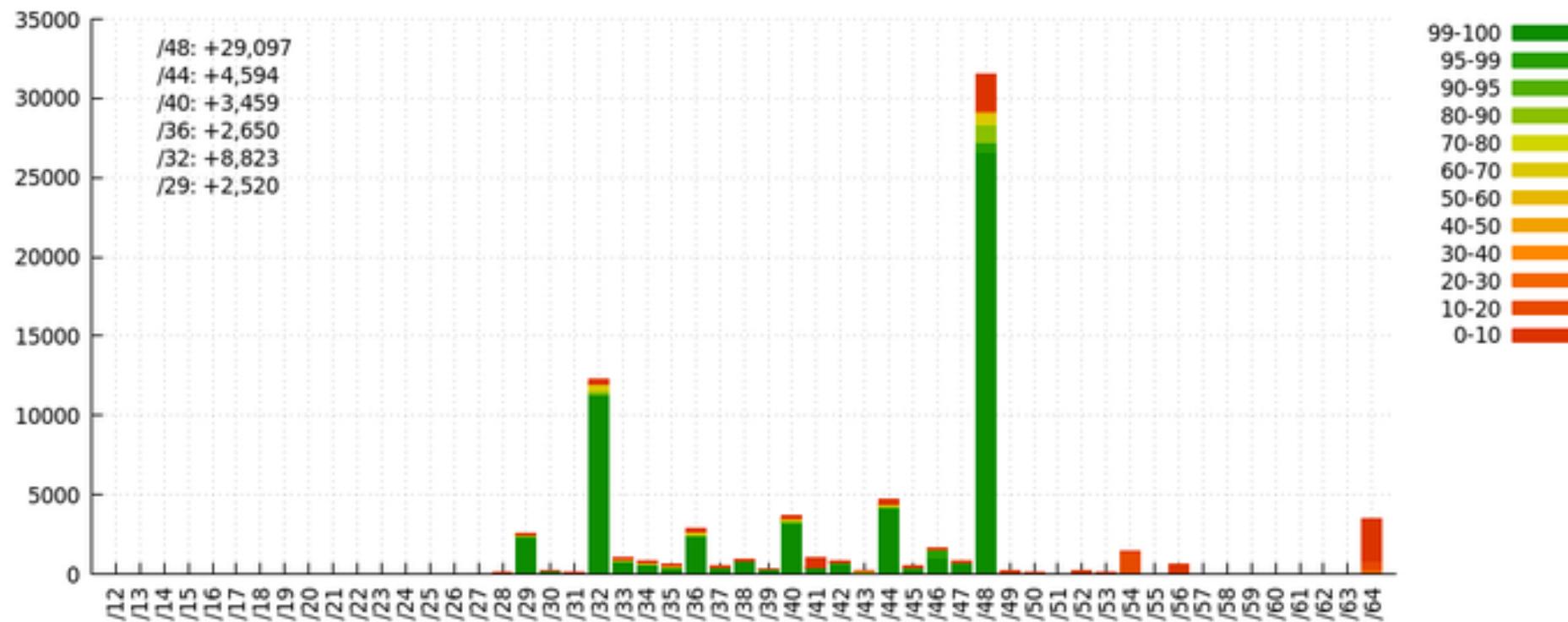
# IPv6/IPv4 Deployment 2011 -> 2019



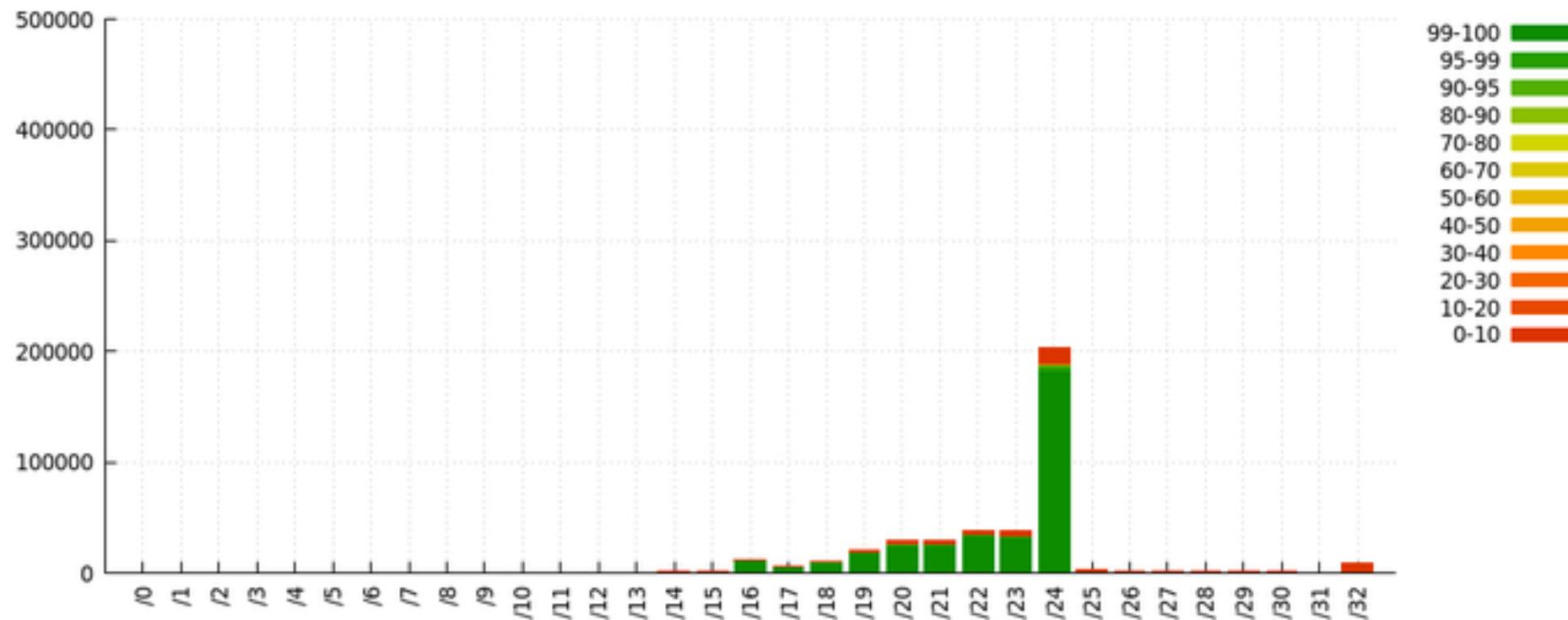
# IPv6 Prefix distribution in 2011



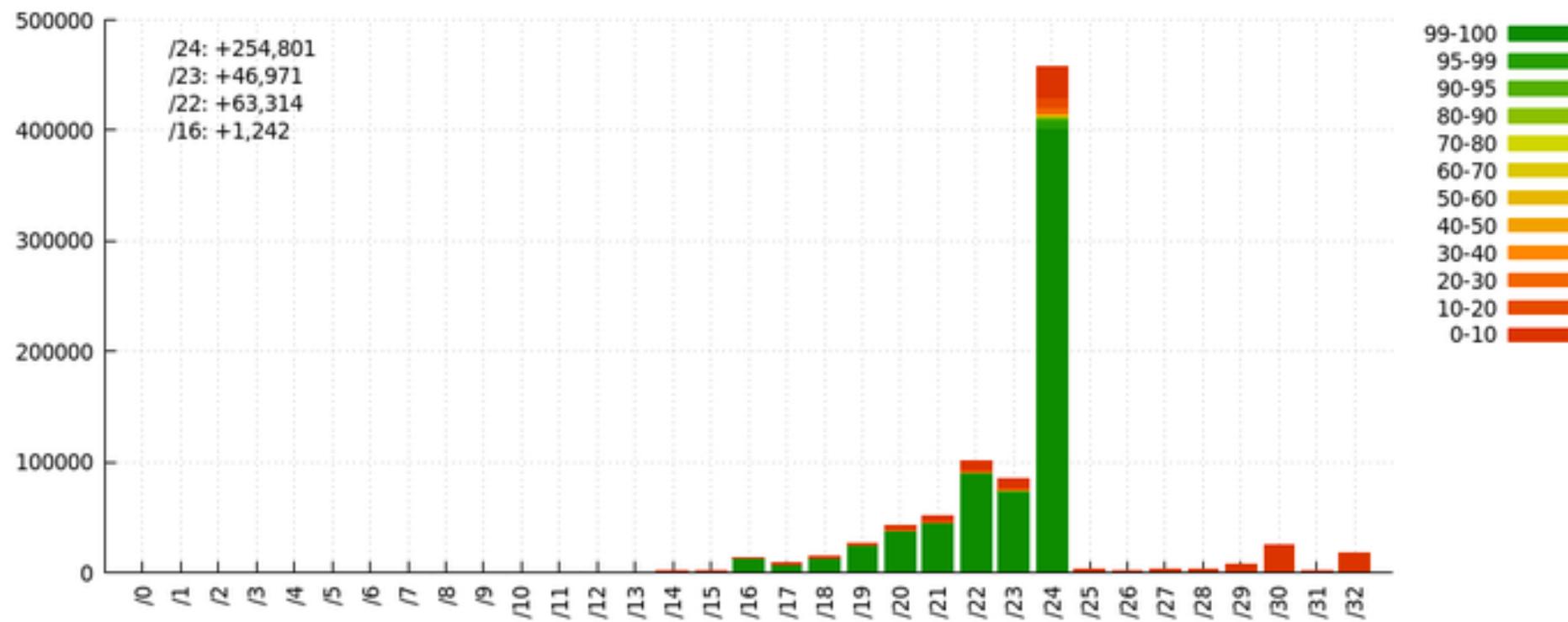
# IPv6 Prefix distribution in 2019



# IPv4 Prefix distribution in 2011



# IPv4 Prefix distribution in 2019



# Contiv-VPP CNI

**CONTIVPP.IO**

Contiv-VPP is a Kubernetes CNI plugin that employs a programmable CNF vSwitch based on FD.io/VPP offering feature-rich, high-performance cloud native networking and services.

<https://contivpp.io/>

# Voting time!

<http://etc.ch/3QBF>

