



Afrinic Updates for an Improved Engagement with REN's

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AGENDA

- ❖ Introduction
- ❖ AFRINIC Updates
- ❖ Engagement with REN's
- ❖ WHY & HOW on Getting own IP space
- ❖ Q&A

Introduction

- ❖ 3 types of resources for the Internet

1. IP addresses - 196.216.2.6

2. Autonomous System Numbers (ASN) - AS33764

3. Domain Names (www.afrinic.net)

- ❖ All 3 resources are inter-connected

Introduction

- ❖ IP addresses and ASN's are managed by 5 Regional Internet Registries (RIRs).
- ❖ AFRINIC is the RIR for AFRICA.



Introduction

Services

- ❖ WHOIS service - Registry for Internet numbers - whois.afrinic.net
- ❖ Reverse DNS delegation
- ❖ Routing Registry
- ❖ DNSSEC
- ❖ RPKI
- ❖ Atlas probes
- ❖ Trainings (IPv6, Routing Registry, Internet Numbers Resource Management)
- ❖ Contact hostmaster@afrinic.net for support

Introduction

Services - AFRINIC Routing Registry

- ❖ Introduced in 2015
- ❖ Free for AFRINIC members
- ❖ Ease of maintenance – Contains all objects in one place and use same maintainers as your WHOIS database objects
- ❖ Secure and authoritative for your IP resources
- ❖ Possible to maintain a mirrored copy
- ❖ Contact irr@afnic.net for support

AFRINIC Updates

IPv4 Resources

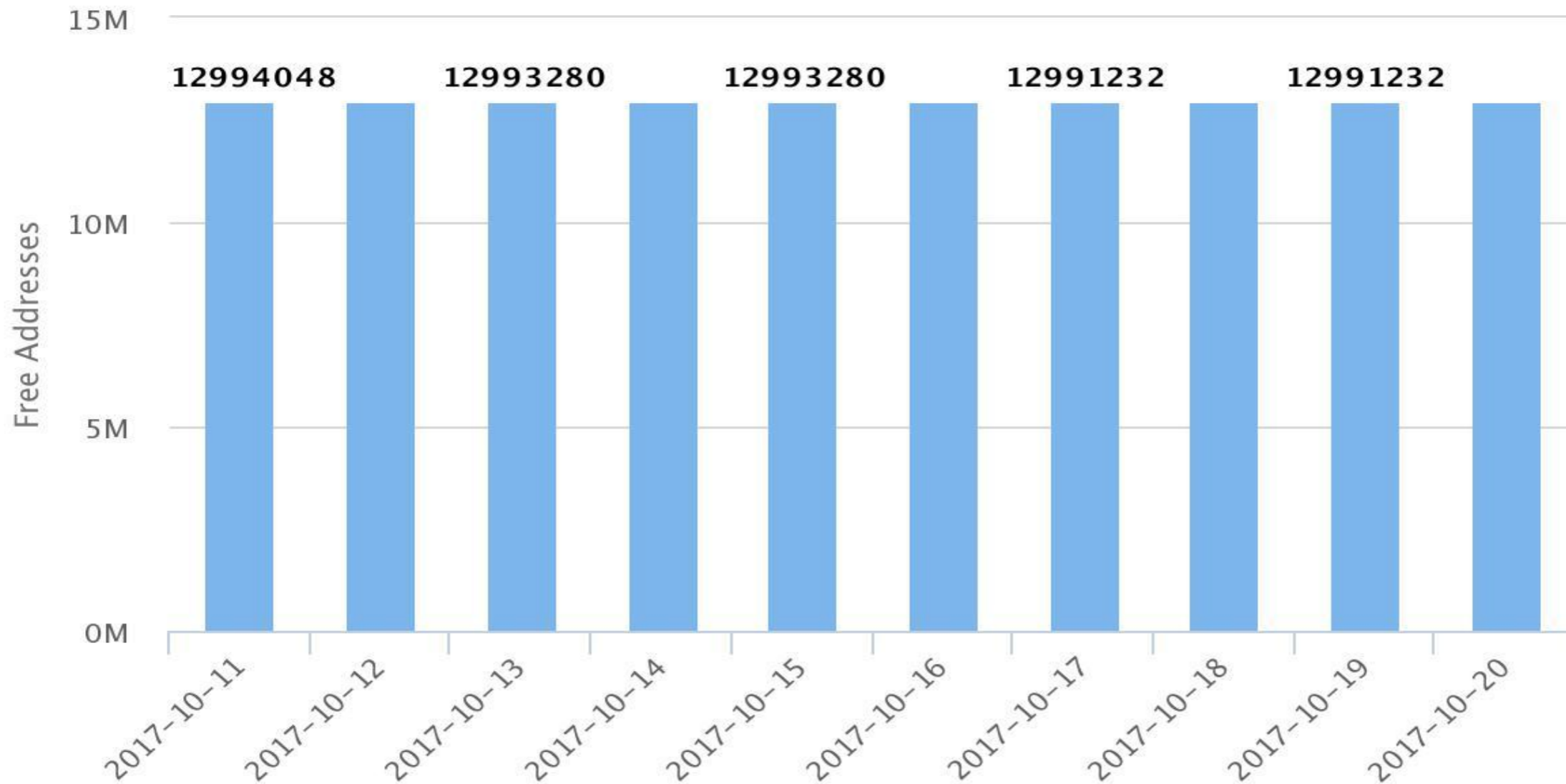
- ❖ All RIR's have exhausted their space.
- ❖ Currently we are in the softlanding stage phase 1
- ❖ In 2017, 6,912,000 IPv4 addresses issued to members
- ❖ Currently AFRINIC is remain with over 12 million IPv4 addresses before reaching depletion.
- ❖ Resource Statistics are available here:
<https://afrinic.net/en/services/statistics>

AFRINIC Updates

IPv4 Resources

IPv4 Statistics

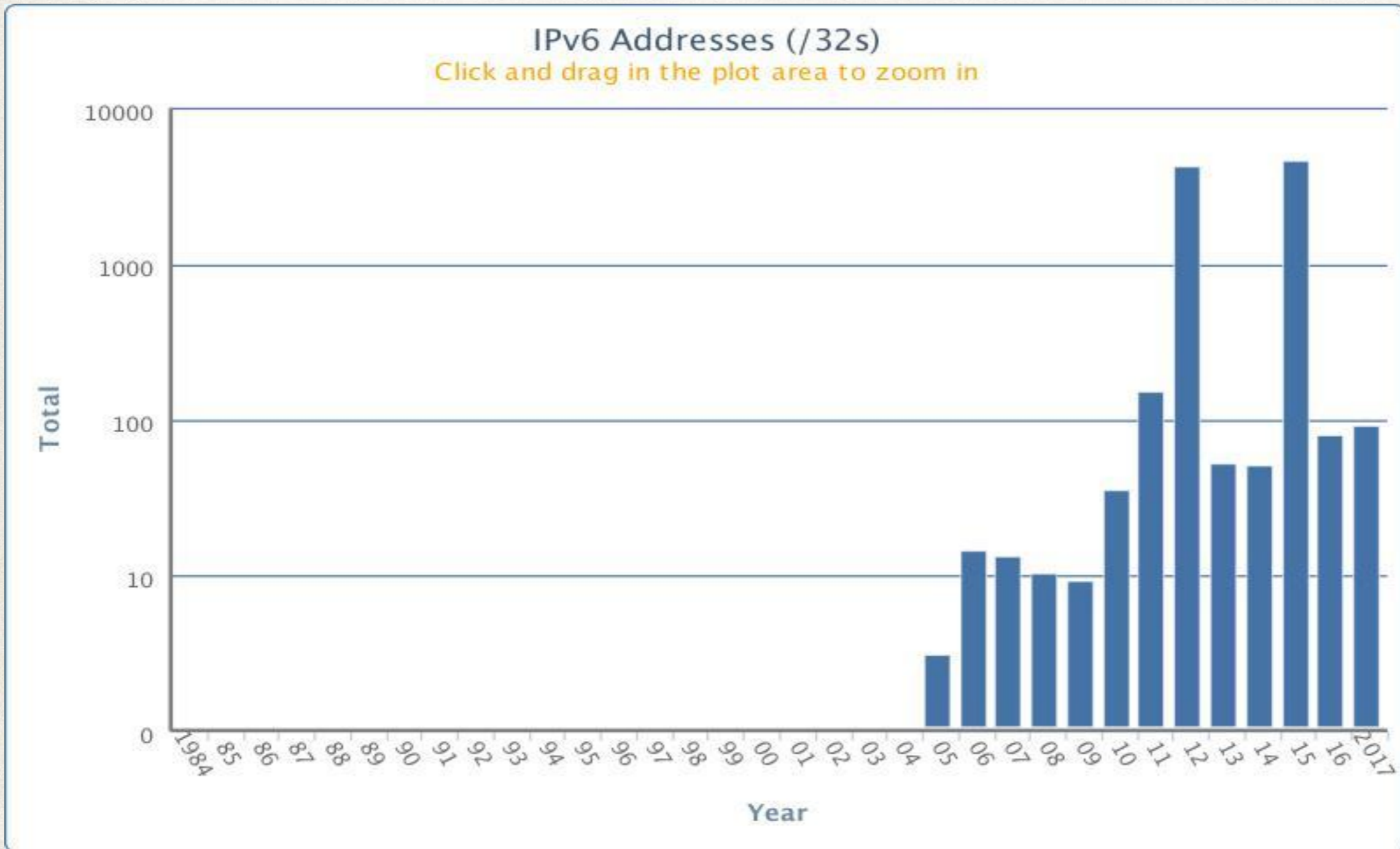
Statistics : Pool Trend



Highcharts.com

AFRINIC Updates

IPv6 Resources Uptake



AFRINIC Updates

IPv6 Resources Deployment

- ❖ 12 Institutions from the UbuntuNet Region have IPv6 prefixes
- ❖ UbuntuNet, KENET, RENU, SUDREN, TENET
- ❖ Aga Khan University, Uni. Cape Town, Uni. Of Botswana, Uni. Of Free State,

AFRINIC Updates

Policies

- ❖ Guidelines by which AFRINIC Ltd manages IP resources
- ❖ Developed by the AFRINIC Community
- ❖ Developed through the Policy Development Process (PDP)
- ❖ PDP is a bottom up, transparent and open process
- ❖ Next AFRINIC public policy meeting in Lagos, Nigeria from the 27th November to 2nd December 2017

AFRINIC Updates

Resource Policies

- ❖ 23 Active Policies consolidated in one policy document.
- ❖ 6 Policies under discussions
- ❖ 1 Policy undergoing implementation
- ❖ Consolidated Policy Manual: <http://bit.ly/2gww10J>
- ❖ PDP Process: <https://afrinic.net/en/community/policy-development>
- ❖ Participation in policy discussions is greatly required

Engagement with REN Community

- ❖ Over 90 Universities
- ❖ 3 regional REN's
- ❖ 26 National REN's
- ❖ 16 Members of UbuntuNet
- ❖ Over IPv4 /11 assigned/allocated to the region

Engagement with REN Community

- ❖ AFRINIC offers 50% discount on its fees to NON-PROFIT making academic institutions
- ❖ AFRINIC fees schedule can be accessed here: <http://bit.ly/2llso3r>

Why Get Own IP's from AFRINIC

- ❖ Assume independent identity on the Internet.
- ❖ Reduced impact of blacklisting and filtering due to spam.
- ❖ Eliminate upstream service provider lock-in and avoid renumbering your internal subnets.
- ❖ Ability to connect to more than one upstream (multi-home) or IXP's (redundancy, load balancing or traffic localisation).
- ❖ Better planning and management of your IP requirements
- ❖ Attain scalability, resilience and stability

How to Become a Member

- ❖ Must be legally incorporated
- ❖ Evidence of upstream connectivity
- ❖ IP addressing plan
- ❖ Sign RSA (Binding contract with AFRINIC)
- ❖ Go to <https://nmp.afrinic.net/>
- ❖ Universities are encouraged to get own IP's

How to Request Additional IP's

- ❖ At least 90% usage on previous allocations
- ❖ No outstanding bills on account
- ❖ Log in to my.afrinic.net
- ❖ Go to Resources -> IPv4 Resources
- ❖ Select “Request New Assignment”
- ❖ IP addressing plan

Contacts Update

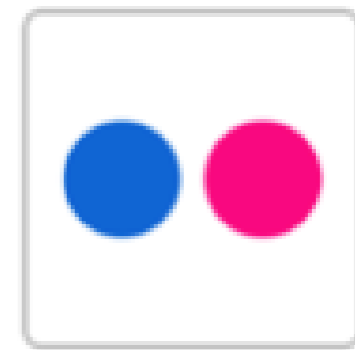
- ❖ Ensure the WHOIS database integrity
- ❖ Update Person information here:
<https://my.afrinic.net/account/myinfo/>
- ❖ Reset forgotten password here:
<https://my.afrinic.net/forgotpassword>
- ❖ To update organisation information, contact our customer services at service-support@afrinic.net

AFRINIC public mailing lists

- ☀ Announcements (announce@afnic.net)
- ☀ Policy Discussions (rpd@afnic.net)
- ☀ IPv6 in Africa (afripv6-discuss@afnic.net)
- ☀ AfrICANN (africann@afnic.net)
- ☀ Member discussion (members-discuss@afnic.net)
- ❖ <http://www.afnic.net/en/community/email-a-mailing-lists>



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Thank You for Your Attention.

Questions?