

THE LORD OF IPV6

<https://github.com/awalece/The-Lord-of-IPv6>



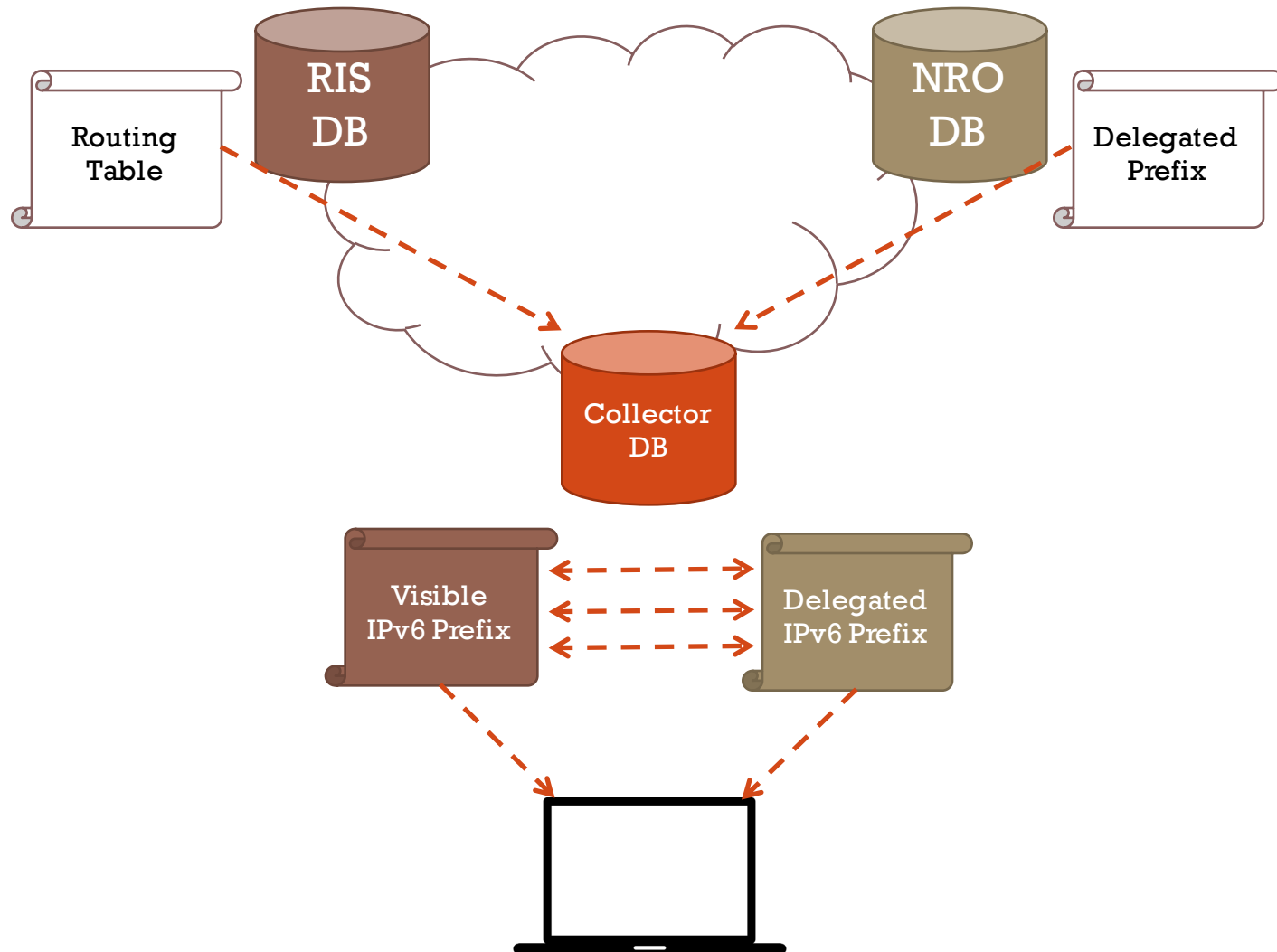
OBJECTIVES

- Narrow Objectives
 - Display per country IPv6 statistics
 - Prefix delegated by the RIR
 - Prefixes visible and not visible in the global routing table
 - Date of first IPv6 prefix delegated
- Wide Objectives
 - Display v6 deployment statistics from secondary sources
 - APNIC
 - Google
 - Cisco 6lab
 - Vyncke (vyncke.org)
 - Mark Prior (mrp.net)

TEAM MEMBERS

- Mohammad Abdul Awal
- Sadhu Ram Basnet
- M Abdullah Al Naser
- Muhammad Hafizi Jalil

PROPOSAL



TOOLS

- bgpdump
- mrtparse
- ~~MariaDB~~ (killed our precious time)
- PostgreSQL
- python
- php
- Apache2

DEVELOPMENTS

- Database
 - Data collected from public sources
 - Re-formatted
 - Database created with PostgreSQL
- Webpage
 - Developed
 - Unique country code listed in dropdown menu

DEVELOPMENTS

```
postgres=# \c maxmind
You are now connected to database "maxmind" as user "postgres".
maxmind=# \d
               List of relations
 Schema |      Name      | Type  | Owner
-----+-----+-----+-----
 public | delegated_ipv6 | table | postgres
 public | mrt_ipv6       | table | postgres
(2 rows)

maxmind=# \d mrt_ipv6
      Table "public.mrt_ipv6"
   Column   | Type   | Modifiers
-----+-----+-----
 ipv6_route | cidr   |

```

```
maxmind=# \d delegated_ipv6
      Table "public.delegated_ipv6"
   Column   | Type           | Modifiers
-----+-----+-----
 cc         | character(8)   |
 resource   | character varying(16) |
 prefix     | cidr           |
 count      | integer        |
 date       | date           |

```

```
maxmind=# █
```

DEVELOPMENTS

ipv6_route
2001::/32
2001::/32
2001:4:112::/48
2001:4:112::/48
2001:5:5::/48
2001:5:5::/48
2001:200::/32
2001:200::/32
2001:218::/32
2001:218::/32
2001:218:3004::/48
2001:218:3004::/48
2001:240::/32
2001:240::/32
2001:250::/32
2001:250::/32
2001:250:222::/48
2001:250:222::/48
2001:250:22a::/48
2001:250:22a::/48
2001:251::/32
2001:251::/32
2001:252::/32
2001:252::/32
2001:256::/32
2001:256::/32
2001:258::/32
2001:258::/32
2001:260::/32
2001:260::/32
2001:260:802::/48
2001:260:802::/48
2001:268::/32
2001:268::/32
2001:268:83b::/48
2001:268:83b::/48
2001:270:fc02::/48
2001:270:fc02::/48
2001:278::/32
2001:278::/32

cc	resource	prefix	count	date
JP	ipv6	2001:200::/128	35	1999-08-13
JP	ipv6	2001:200:2000::/128	35	2003-04-23
JP	ipv6	2001:200:4000::/128	34	2003-04-23
JP	ipv6	2001:200:8000::/128	33	2003-04-23
SG	ipv6	2001:208::/128	35	1999-08-27
SG	ipv6	2001:208:2000::/128	35	2003-03-06
SG	ipv6	2001:208:4000::/128	34	2003-03-06
SG	ipv6	2001:208:8000::/128	33	2003-03-06
JP	ipv6	2001:218::/128	35	1999-09-22
JP	ipv6	2001:218:2000::/128	35	2002-07-24
JP	ipv6	2001:218:4000::/128	34	2002-07-24
JP	ipv6	2001:218:8000::/128	33	2002-07-24
KR	ipv6	2001:220::/128	35	1999-10-06
KR	ipv6	2001:220:2000::/128	35	2003-11-26
KR	ipv6	2001:220:4000::/128	34	2003-11-26
KR	ipv6	2001:220:8000::/128	33	2003-11-26
KR	ipv6	2001:230::/128	35	1999-11-24
KR	ipv6	2001:230:2000::/128	35	2002-08-02
KR	ipv6	2001:230:4000::/128	34	2002-08-02
KR	ipv6	2001:230:8000::/128	33	2002-08-02
TW	ipv6	2001:238::/128	35	2000-02-08
TW	ipv6	2001:238:2000::/128	35	2002-07-11
TW	ipv6	2001:238:4000::/128	34	2002-07-11
TW	ipv6	2001:238:8000::/128	33	2002-07-11
JP	ipv6	2001:240::/128	35	2000-03-08
JP	ipv6	2001:240:2000::/128	35	2002-07-26
JP	ipv6	2001:240:4000::/128	34	2002-07-26
JP	ipv6	2001:240:8000::/128	33	2002-07-26
CN	ipv6	2001:250::/128	35	2000-04-26
CN	ipv6	2001:250:2000::/128	35	2002-07-26
CN	ipv6	2001:250:4000::/128	34	2002-07-26
CN	ipv6	2001:250:8000::/128	33	2002-07-26
CN	ipv6	2001:251::/128	32	2003-11-11
CN	ipv6	2001:252::/128	32	2007-03-16
CN	ipv6	2001:254::/128	32	2005-11-25

DEVELOPMENTS

127.0.0.1/hack.php ☆



APRICOT 2018

APNIC 45



#apricot2018

KATHMANDU
NEPAL

19 – 28 February 2018

APNIC IPv6 Hackathon 2018

Compare IPv6 Prefixes

Select Country Code... ▼

Submit

All IPv6 Prefixes

JP ipv6 2001:200:: 35 19990813

JP ipv6 2001:200:2000:: 35 20030423

SG ipv6 2001:208:: 35 19990827

SG ipv6 2001:208:2000:: 35 20030306

JP ipv6 2001:218:8000:: 33 20020724

KR ipv6 2001:220:: 35 19991006


KR ipv6 2001:220:2000:: 35 20031126

KR ipv6 2001:220:4000:: 34 20031126

TW ipv6 2001:238:: 35 20000208

TW ipv6 2001:238:2000:: 35 20020711

DEVELOPMENTS

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This project is created as part of the APNIC IPv6 Hackathon 2018 held during APRICOT 2018 in Kathmandu. The background is that there are lots of online sources that show the IPv6 deployment status per country. But, in order to get those information, someone needs to visit those sites separately. It may be inconvenient for the users. The purpose ... [Edit](#)

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17 commits 1 branch 0 releases 1 contributor

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 awalece Update php	Latest commit 272bce0 42 seconds ago
Codes	Update php 33 seconds ago
Acknowledgement	Acknowledgement 17 hours ago
LICENSE	Create LICENSE 15 hours ago
Presentation.pdf	Add files via upload 4 minutes ago
README.md	Update README.md 41 minutes ago

 **README.md**

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This project is created as part of the APNIC IPv6 Hackathon 2018 held during APRICOT 2018 in Kathmandu. The background is that there are lots of online sources that show the IPv6 deployment status per country. But, in order to get those information, someone needs to visit those sites separately. It may be inconvenient for the users. The purpose of this project is to create an website where people can get information related to the IPv6 deployment per country collected

IMPROVEMENT SCOPES

- **Current**
 - Script to compare between databases
 - Fix the php codes to make the website working
- **Future**
 - Include Whois data
 - Building graphs

QUESTIONS?