

# THE LORD OF IPV6

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



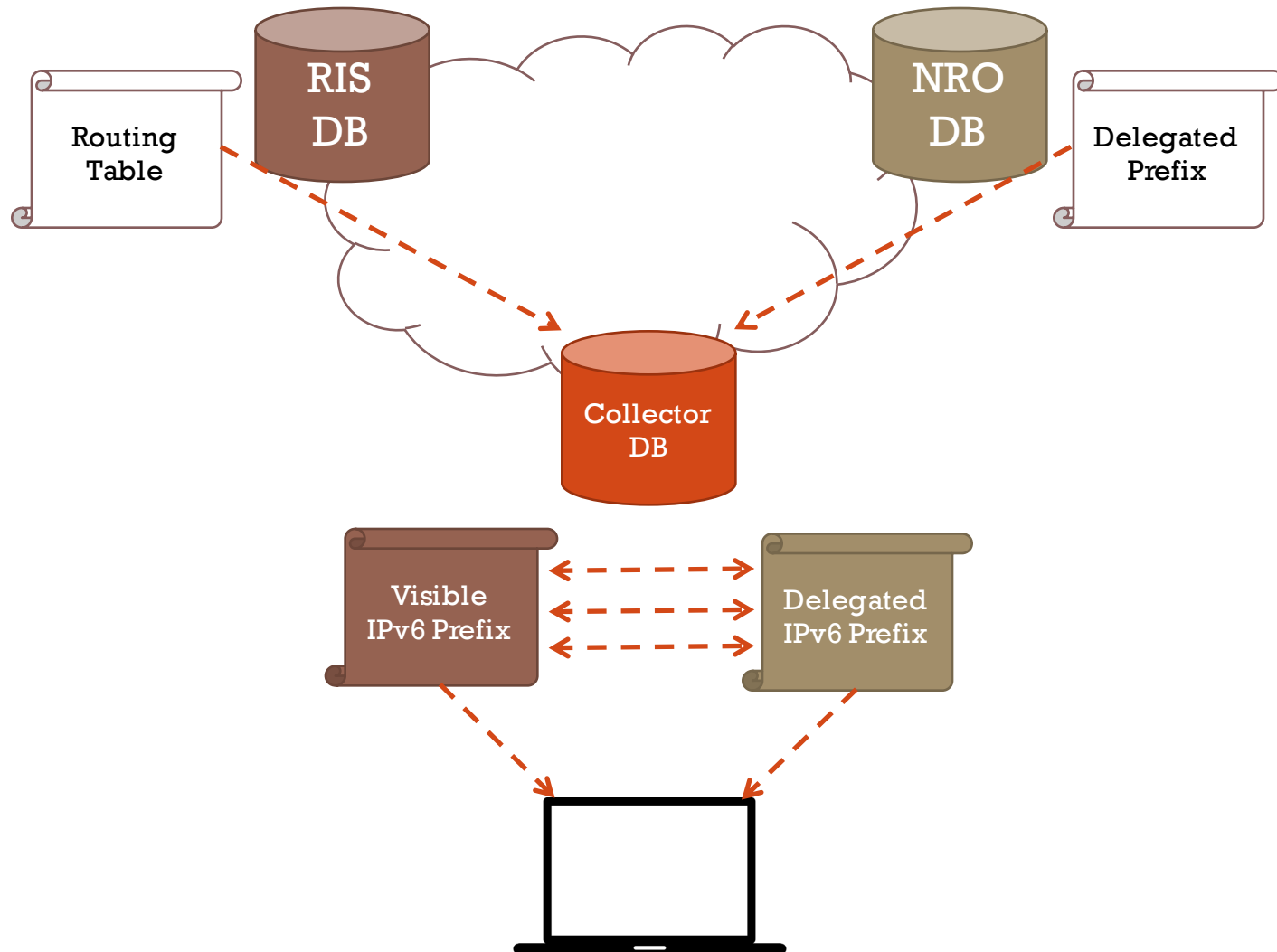
# OBJECTIVES

- 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

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# 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

▼

#### 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

# IMPROVEMENT SCOPES

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

# QUESTIONS?