

KRNIC Updates

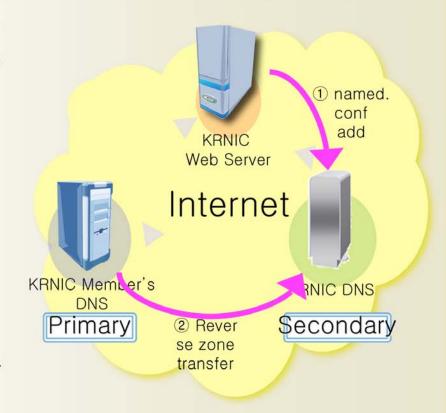
Aug 2008 KRNIC of NIDA ip-all@nida.or.kr

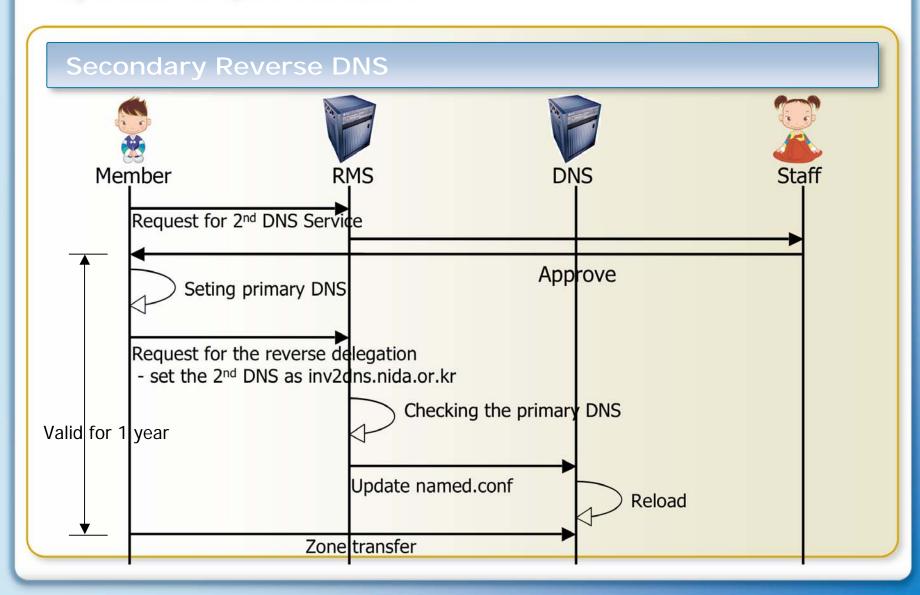




Secondary Reverse DNS

- To work as a secondary reverse DNS f or small-size KRNIC members who run single reverse DNS
- inv2dns.nida.or.kr
- As of Aug. 19th
 - used by 10 KRNIC members
 - Runs 201 reverse zones
- Features
 - Valid for 1 year
 - Should build their own 2nd DNS within 1 year
 - Used only for reverse DNS





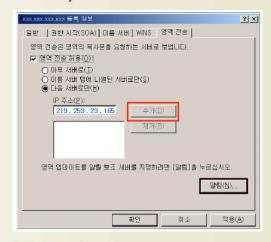
Secondary Reverse DNS

Members don't know how to set primary & secondary DNS relation

When KRNIC approves the request for the 2nd DNS Service, KRNIC sends to the member a

guideline for how to configure DNSes.

```
에시 2)
- named.conf 파일에 추가(※ 인버스 도메인 존 별로 설정할 경우)
zone "xxx.xxx.in-addr.arpa" {
    type master;
    file "인버스 존 파일명";
    allow-transfer { 219.253.23.165; }; -> 추가할 부분(진흥원 2차 DNS의 IP주소)
    };
```



- KRNIC network operators are reluctant to add additional DNS
 - They worry about the DDoS attack aimed to the DNS.
 - Add Additional Leased Line (HANANET, 2Mbps) and built the DNS in separate network.

XML/REST based DNS Web Service

XML interface for APNIC members to update their reverse DNS records

```
$TTL 43200

115.144.in-addr.arpa. IN NS b.dns.kr.

115.144.in-addr.arpa. IN NS c.dns.kr.

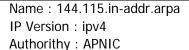
115.144.in-addr.arpa. IN NS d.dns.kr.

115.144.in-addr.arpa. IN NS e.dns.kr.

115.144.in-addr.arpa. IN NS f.dns.kr.

115.144.in-addr.arpa. IN NS g.dns.kr.
```

KRNIC. 115.144.in-addr.arpa. IN TXT "Generated at Fri May 11:07 2006 with 6 NS Records."



Version: 1.0 Revision: 0 Published: 0

Modified:

HREF: https://test-services.apnic.net/services/rdns/ipv4/115/144

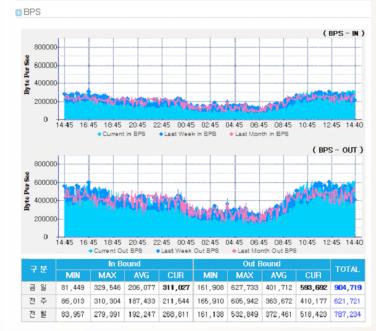
NServer 1 : b.dns.kr NServer 2 : c.dns.kr NServer 3 : d.dns.kr NServer 4 : e.dns.kr NServer 5 : f.dns.kr NServer 6 : g.dns.kr

Contact 1 : HM127-AP(technical)
Contact 2 : HM127-AP(administrative)

Manager: Unknown

XML/REST based DNS Web Service

- Monitoring System for the reverse domains is needed
 - Monitor the each DNS in the delegation path (APNIC, ARIN, KRNIC DNSes)
 - Listen to the situation of each DNS and Reverse Domain



Source IP TOP 10			Target Domain TOP 10		
순위	IP 주소	질의수	순위	URL주소	질의수
1	66,249,73,17	4506	1	207.246.117.123.in-addr.arpa	5820
2	70.84.138.226	4000	2	c.dns.kr	5565
3	208.69.34.8	3369	3	green.crossmedia.co.kr	4883
4	208.69.34.6	3038	4	b.dns.kr	4762
5	208.69.34.10	3015	5	f.dns.kr	4318
6	208,69,34,4	2669	6	e.dns.kr	4281
7	168, 126, 63, 121	2564	7	d.dns.kr	4276
8	202.131.30.16	2193	8	g.dns.kr	4188
9	202.131.30.17	2142	9	nis.dacom.co.kr	4087
10	164.124.101.54	2019	10	227.15.117.123.in-addr.arpa	4032