

DNSv6 at AFNIC

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Why IPv6 for a NIC?

- DNS is one of the most critical applications for Internet operation
- IPv4 is reaching its limits → we should get ready for IPv4→IPv6 transition/migration: DNSv6 is the starting point of every IPv6 application
- DNS service continuity between IPv4 and IPv6 worlds is a key issue



What have we achieved so far?

- Native support of DNSv6 (with IPv6 transport) on number of our DNS servers (for experience acquisition)
- Officially host a secondary DNSv6 on ns3.nic.fr (SFINX IXP, 2001:660:1180:1:192:134:0:49) for:
 - ccTLD zones:
 - fr, re // delegated to AFNIC
 - br, dz, es
 - Reverse zones:
 - ip6.int, e.f.f.3.ip6.int
 - {6,7}.0.1.0.0.2.ip6.{int,arpa} // 4 Ripe blocs
 - and many others for G6/Renater2

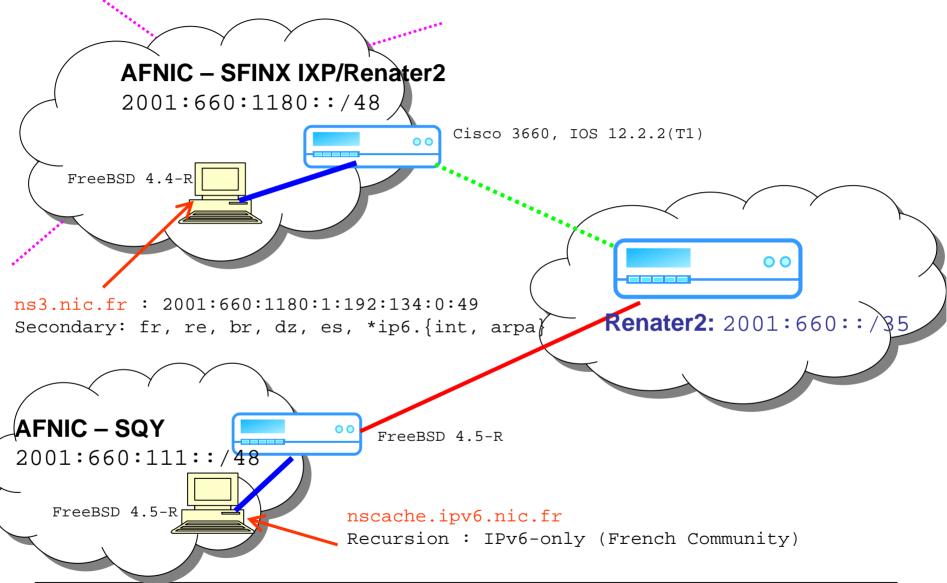


What have we achieved so far (2)?

- DNSv6 Cache Forwarding Service:
 - Name Resolution service for IPv6-only sites
 - Efficient and scalable for a well defined community (for instance French IPv6 community)
 - Service running on nscache.ipv6.nic.fr

IPv6 & DNSv6 at AFNIC







What are we looking for?

- Collaboration with RIPE region NICs in the DNSv6 field:
 - Help NICs (which are new in IPv6) to start DNSv6
 - Migrate secondary service from ns2.nic.fr to ns3.nic.fr (IPv6-capable) for the following ccTLDs (if they wish it):
 - cz, ge, hu, ie, ma, nl, mt, pt, ru, si, tn, ua
 - Consider other forms of secondary service exchange for other ccTLDs that wish IPv6 support
- We are open to any other ideas/suggestions:
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