

Testing Root Name Servers with Inter Domain Anycast Addresses

Status of this Memo

This document is an Internet-Draft and is in full conformance with all provisions of [Section 10 of RFC2026](#).

Internet-Drafts are working documents of the Internet Engineering Task Force (IETF), its areas, and its working groups. Note that other groups may also distribute working documents as Internet-Drafts.

Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as "work in progress."

The list of current Internet-Drafts can be accessed at <http://www.ietf.org/ietf/lid-abstracts.txt>

The list of Internet-Draft Shadow Directories can be accessed at <http://www.ietf.org/shadow.html>.

Abstract

This memo describes an environment to test a proposal to have root name servers with shared unicast addresses described in <[draft-ietf-dnsop-ohta-shared-root-server-00txt](#)>.

1. Introduction

In [[SRS](#)], there is a proposal to have multiple name servers sharing unicast (anycast) addresses. The proposal is designed to work in intra domain environment with route registries by using multiple ASes sharing AS numbers.

This memo describes an environment to test the proposal.

While the proposal is on root domain using multiple unicast (anycast) addresses and (anycast) AS numbers, the experiment is on a real but non-root domain using only one unicast address and one AS number.

2. IP addresses

INTERNET DRAFT

Testing Name Servers

July 2000

A block of IP addresses:

192.83.230/24

which is expected to be globally routable, is reserved for the test.

The DNS servers share an IP address of:

192.83.230.1

3. AS number

AS 4128 is used for the test.

4. Domains

The initial domains to be served by the DNS servers are:

real-internet.org.
psg.com.

There may be additional domains tested.

5. Participants

The initial participants of the test and globally unique unicast addresses of their servers are as follows:

????.????.????.??? Francisco Arias <farias@nic.mx>
????.????.????.??? Frederico A. C. Neves <fneves@ansp.br>
131.112.32.131 Masataka Ohta <mohta@real-internet.org>
????.????.????.??? Randy Bush <randy@psg.com>
????.????.????.??? Stacy Smith <stacy@broadwing.net>

6. Mailing List

If you are interested in joining (or just watching) the test, send a mail containing a single line of:

subscribe aroot

to

majordomo@ops.ietf.org

the mailing list is located at:

aroot@ops.ietf.org

M. Ohta

Expires on January 1, 2001

[Page 2]

INTERNET DRAFT

Testing Name Servers

July 2000

Archive of the list is available at
<ftp://ops.ietf.org:/pub/lists/aroot>.

7. Contact

If there is something wrong with route information from AS 4128, the author of the memo or the mailing list for the test may be contacted.

However, for direct contact to the source of the problem, the contact person of an AS next to AS 4128 in the AS path of problematic route information should be contacted as described in [[SRS](#)].

8. References

[SRS] <[draft-ietf-dnsop-ohta-shared-root-server-00.txt](#)>.

9. Author's Address

Masataka Ohta
Computer Center
Tokyo Institute of Technology
2-12-1, O-okayama, Meguro-ku
Tokyo 152-8550, JAPAN

Phone: +81-3-5734-3299

Fax: +81-3-5734-3415

E-Mail: mohta@necom830.hpcl.titech.ac.jp

[M.](#) Ohta

Expires on January 1, 2001

[Page 3]