Infrastructure - Task #5136

Change DNS seetings on all DataONE VMs

2014-04-24 21:58 - Chris Jones

Status:	New	**Start date:**	2014-04-24	
Priority:	Normal	**Due date:**		
Assignee:	Chris Jones	**% Done:**	0%	
Category:	Environment.Production	**Estimated time:**	0.00 hour	
Target version:	2014.18-Block.3.1			
Milestone:	None	**Story Points:**		
Product Version:	*			

Description

We've transitioned to using the Amazon Route 53 service as the authoritative name servers for the dataone.org domain, and need to configure each development and production VM to point to the appropriate servers (no longer the nceas name servers), and to the Google servers as secondaries:

On UCSB VMs, modify /etc/network/interfaces to point to the following name servers:

dns-nameservers 128.111.1.2 128.111.1.1 8.8.8.8 8.8.4.4

(ns2.ucsb.edu, ns1.ucsb.edu, google-public-dns-a.google.com, google-public-dns-b.google.com)

On ORC VMs, modify /etc/network/interfaces to point to the following name servers:

dns-nameservers 160.36.196.66 160.36.128.66 8.8.8.8 8.8.4.4

(ns2.utk.edu, ns1.utk.edu, google-public-dns-a.google.com, google-public-dns-b.google.com)

On UNM VMs, modify /etc/network/interfaces to point to the following name servers:

dns-nameservers 64.106.44.200 64.106.44.210 8.8.8.8 8.8.4.4

(ns2.unm.edu, ns1.unm.edu, google-public-dns-a.google.com, google-public-dns-b.google.com)

Per Nick Brand, putting the per-campus name servers first should give us the lowest latency.

History

#1 - 2014-04-25 17:35 - Dave Vieglais

DNS looks are locally cached and unless forced, a call to a DNS server is typically not made until the TTL expires.

The Google DNS servers are widely used and so notice of any changes to those services are likely to be widely advertised. A change to a campus DNS server may be advertised, but seems less reliable (e.g. recent migration of NCEAS DNS to a network that does not allow external access).

The Amazon servers are not recursive DNS servers and so should not be targeted for general DNS queries.

Suggest using the Google DNS as the primary DNS and fallback to OpenDNS servers (http://www.opendns.com/opendns-ip-addresses/)

#2 - 2014-05-08 03:16 - Chris Jones

The plan is to use:

dns-nameservers 8.8.8.8 8.8.4.4 208.67.222.222 208.67.220.220