

Infrastructure - Bug #2725

Setting DNS to UCSB servers breaks resolution at ORC

2012-05-09 12:35 - Dave Vieglais

Status:	Closed	Start date:	2012-05-09
Priority:	Normal	Due date:	
Assignee:	Dave Vieglais	% Done:	100%
Category:	Support Operations	Estimated time:	0.00 hour
Target version:	Sprint-2012.21-Block.3.3	Story Points:	
Milestone:	CCI-1.0.0		
Product Version:	*		

Description

Setting resolv.conf as:

```
search dataone.org
nameserver 128.111.220.18
nameserver 128.111.220.16
nameserver 174.37.196.55
nameserver 8.8.8.8
nameserver 8.8.4.4
```

breaks DNS resolution. Moving the google name servers to the top of the list restores normal operations.

This issue may affect responsiveness to the situation where a CN is taken offline by removing from rr-dns.

History

#1 - 2012-05-09 13:01 - Dave Vieglais

Might be a configuration issue with DNS at UCSB?

e.g. with 128.111.220.18 as primary DNS:

```
vieglais@cn-orc-1:~$ nslookup security.ubuntu.com
;; Got recursion not available from 128.111.220.18, trying next server
;; Got recursion not available from 128.111.220.16, trying next server
;; Got recursion not available from 128.111.220.18, trying next server
;; Got recursion not available from 128.111.220.16, trying next server
Server: 174.37.196.55
Address: 174.37.196.55#53
```

** server can't find security.ubuntu.com: NXDOMAIN

#2 - 2012-05-09 13:23 - Dave Vieglais

- Category changed from Environment.Production to Support Operations

Issue is that recursion is not enabled at either the UCSB or afraid.org name servers. This means that for resolv.conf should probably be configured with

```
search dataone.org
nameserver 128.111.220.18
```

nameserver 174.37.196.55
nameserver 8.8.8.8
nameserver 8.8.4.4
nameserver 128.111.220.16

Note that for 10.04, MAXNS, the maximum number of nameservers used in resolve.conf, is 3. So in the example above, resolve will check 128.111.220.18, which will be ok for dataone.org addresses but will fail for most everything else. 174.37.196.55 will be tried next, and will similarly fail for some addresses. Finally 8.8.8.8 will be tried next, and that nameserver should always work.

This approach gives highest priority to dataone.org names, and so *should* be responsive to changes in rr-dns for the environment.

Changing category to general operations, since this will affect all installations.

#3 - 2012-05-30 14:38 - Dave Vieglais

- *Status changed from New to Closed*

Suggested configuration appears to be working fine.