

ICANN Testbed for Middleboxes

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What

- We have already begun an extensive collection of middleboxes (including software that acts like middleboxes, such as host-based firewalls)
- This is a long-term project: the lab will continue to grow over time
- We already have Ethernet routers/firewalls, cable modem/routers, DSL modem/routers
- Soon: cell phones that are tetherable

Why

- There is known breakage in the DNS due to badly-written and badly-configured DNS forwarders, proxies, and resolvers; some of that lives in middleboxes
- Some DNS technologies are being stifled by us not knowing how much breakage there is, and where in the network it happens
- It would be nice to be able to quantify “You can’t deploy *X* because middleboxes will not allow those packets to go through”

Can we help?

- If you have a test that we can add a test to our testbed, we are happy to listen
- We run through all the tests periodically, and if the run takes longer, that's OK
- We are not testing speed or high-volume problems
- We will publish our testbed layout so you can reproduce what we do