
Subject: Network namespaces without isolation

Posted by [Andreas B Aaen](#) on Wed, 02 Jul 2008 07:18:50 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi,

I am looking into the network namespace implementation because I need an IP stack that is capable of talking with a number of separate IP nets with possible overlapping IP addresses. My connection to each separate IP-net is through a tunnel e.g. a VLAN interface.

A special application will then be able to listen to traffic on all the nets through a socket option SO_NS that sets the namespace to talk/listen to for a particular socket. For this to work network namespaces needs to be indexed. It would also be very handy if the configuration can be made without a clone() call.

Something like:

```
ip ns add ns 1
ip link set eth0.42 ns 1
ip addr add 192.168.50.4/24 dev eth0.42 ns 1
```

It would be fairly ok if this possibility to set up interfaces on other namespaces only is possible from the default namespace.

It would also be nice to be able to see the network statistics from all the namespaces through the proc filesystem at least in an uncloned (isolated) namespace.

So you would be able to see the network statistics in /proc/net/ns/<index>/

It should be said that we have an implementation of all this already, but NOT based on network namespaces and for elder kernels. We don't want to forward port this, put instead add a few features to the network namespace implementation to be able to fulfill the requirement of our application: talk to a number of IP networks with possible overlapping IP addresses.

Regards,

--

Andreas Bach Aaen	System Developer, M. Sc.
Tieto Enator A/S	tel: +45 89 38 51 00
Skanderborgvej 232	fax: +45 89 38 51 01
8260 Viby J Denmark	andreas.aaen@tietoenator.com

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>
