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Subject: Re: [RFD] L2 Network namespace infrastructure  
Posted by [Ben Greear](#) on Sat, 23 Jun 2007 20:09:49 GMT  
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Eric W. Biederman wrote:

> Ben Greear <[greearb@candelatech.com](mailto:greearb@candelatech.com)> writes:

>

>

>> Will we be able to have a single application be in multiple name-spaces?

>>

>

> A single application certainly. But then an application can be composed  
> of multiple processes which can be composed of multiple threads.

>

> In my current patches a single task\_struct belongs to a single network  
> namespace. That namespace is used when creating sockets. The sockets  
> themselves have a namespace tag and that is used when transmitting  
> packets, or otherwise operating on the socket.

>

> So if you pass a socket from one process to another you can have  
> sockets that belong to different network namespaces in a single task.

>

Any chance it could allow one to use a single threaded, single process  
and do something like

```
int fd1 = socket(...., namespace1);
```

```
int fd2 = socket(...., namespace2);
```

Or, maybe a sockopt or similar call to move a socket into a particular  
namespace?

I can certainly see it being useful to allow a default name-space per  
process, but it would be nice  
to also allow explicit assignment of a socket to a name-space for  
applications that want to span  
a large number of name-spaces.

Thanks,

Ben

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