Subject: Re: VRF within containers
Posted by Vincent JARDIN on Mon, 22 Oct 2012 20:34:25 GMT
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As anyone any concerns about VRF exclusivity versus containers? Or
should I send it on devel@ mailing list instead?

Thank you,
   Vincent
On 18/10/2012 10:31, Vincent JARDIN wrote:
> Hi,
>
> When physical routers are used, they allow VRF based forwarding. They
> can be made of Linux namespace.
>
> However, when a container is being used to virtualize routers, it
> prevents from running within each containers some VRF based packet
> processing. For instance, assume that you have 10 containers running
> MP-BGP into each containers; using MP-BGP, each container can manage 1
> to few thousands of VRF (routing table).
>
> With the current assumptions, assuming than MP-BGP uses namespace to
> index the routing table, then it cannot support the combination of VRF
> forwarding within each container/namespace.
>
> A workaround can be to add a VRF attribute into each namespace so any
> packet processing can be prefixed by an VR index (routing table, IPsec
> SAD/SPD lookup, etc.).
>
> Have you ever considered any other options like adding a VRF index into
> each namespace?