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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?

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