

# Re: resend: multiple routing table roadmap (format fix)

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2007-12/msg00314.html>

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- *From:* [gnn@xxxxxxxxxxx](mailto:gnn@xxxxxxxxxxx)
  - *Date:* Sat, 29 Dec 2007 12:02:22 +0900
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At Fri, 28 Dec 2007 20:40:30 +0100,  
Marko Zec wrote:

The thrust behind Julian's work seems to be providing multiple forwarding tables for for purposes of traffic engineering / policy based routing, with a single firewall instance used as a classifier. vimage-style network stack virtualization provides for more strict isolation on both port and IP address space, independent firewall instances, IPSEC config / state etc., and as such might be better suited for providing enhanced jail-style virtual hosting environments, as well as for providing virtual router "slices".

So once we get Julian's multi-FIB stuff in the base system, I see no reason why we couldn't have this functionality replicated in each "vimage" instance, i.e. have multiple independent virtual networking environments, each with multiple FIBs.

Implementationwise, my hacks currently rely on macros for conditional virtualization of global variables / structs. As long as Julian's changes continue to be unconditional, i.e. without playing a similar macroization game, I think integrating this code (once it hits HEAD) into p4/projects/vimage should be more or less a straightforward job.

Cool, that's what I wanted to hear.

Best,  
George

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