Subject: TCP stack virtualization

Posted by dagr on Thu, 25 Jan 2007 09:02:26 GMT

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AFAIK - sysctl parameters are same for all VEs including HN. I believe it could be great to virtualize some of them as well. For instance, recently i found out that when clients in apache (apache in vps) exceed ListenBacklog - they are not refused like i need, they just hang (just like when they exceed MaxClients but lower than ListenBacklog). The difference in these 2 cases is that in first - server socket is in state syn-recv, in second - in state established. But in both cases client side hangs. Moreover, server vps makes syn ack retries until net.ipv4.tcp\_synack\_retries exceeds, then socket dies. By default it takes about 3mins. What i need - is that it should just refuse connections over ListenBackLog parameter. I need this cause my VPS apaches are behind frontend reverse proxy. And if ANY inner apache exceeds MaxClients, proxy connections to it just hang and their number just grows like snow ball which affect all other apaches.

I can get close to it if i set net.ipv4.tcp\_synack\_retries=1 (by default is 5), but id like this to be valid only for 1 VPS, not the whole HN. I thinks there are plenty other situations which will demand such functionality. Is such thing in TODO list?

Also this can be fixed by iptables connlimit feature which is in patch-o-matic patch. And i really dont sure is it will be possible to apply it to openvz kernel, please tell me if its so.