Subject: Maximum number of VEs on a single host
Posted by tchamp on Sun, 07 Dec 2008 19:58:13 GMT
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We have been trying to determine the maximum number of VE's that we can create on a single host. I realize that it depends on the resources that the machine has. We have a machine with two dual cores, 16G memory, 480G disk, etc. We have a pretty stripped down fedora core 4 template with only a few (~5) processes running. We have been able to get between 1500-2000 VE's created and running on the machine. Once we start to use the VE's (start up an additional process in each VE), we begin to see processes "disappear". I am pretty sure that the OOM killer is shutting down processes (bean counters in the VE tells us so) but the best that I can tell, there is plenty of "free" memory in both the VE's and on the host. It seems like maybe it is the hosts OOM killer and not one in the VE but I don't know how to verify that. Does anyone have any suggestions on what to look at? Has anyone gotten more VE's running on a single host machine? If so, what config did you use?

Thanks,
-Tim

Subject: Re: Maximum number of VEs on a single host
Posted by maratrus on Tue, 09 Dec 2008 10:18:40 GMT
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Hello,

Quote:
Once we start to use the VE's (start up an additional process in each VE), we begin to see processes "disappear"

What does it mean disappear?
Does the process you've started last disappear/terminate?
Please, check logs. Is there anything there?

Quote:
I am pretty sure that the OOM killer is shutting down processes (bean counters in the VE tells us so) but the best that I can tell, there is plenty of "free" memory in both the VE's and on the host.

We cannot be fully confident that it was OOM killer.
If user_beancounters show fail counters you should increase appropriate resources.

Quote:
It seems like maybe it is the hosts OOM killer and not one in the VE but I don't know how to verify that.

If OOM killer did something you should be able to observe it in logs. Please check dmesg on the HN.