
Subject: RE: occasional high loadavg without any noticeable cpu/memory/io load
Posted by [Esm](#) on Tue, 22 May 2012 11:59:09 GMT

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I also think that these UBC settings are not consistent. Especially when you have all containers configured with these same UBC settings you will have soon or later problems.

See: http://wiki.openvz.org/UBC_consistency_check and other pages on the WIKI.

Kind Regards,

Esme

Van: users-bounces@openvz.org [<mailto:users-bounces@openvz.org>] Namens Kirill Korotaev

Verzonden: dinsdag 22 mei 2012 13:05

Aan: users@openvz.org users@openvz.org; Rene C.

Onderwerp: Re: [Users] occasional high loadavg without any noticeable cpu/memory/io load

Looks like in your case you've hit physpages limit.

In such situations VPS behaves as a standalone machine - it starts to swap out (though "virtually") and process stuck in D state (swap in / swap out),

which contributes to loadavg.

So either increase memory limits for your VPS or kill/tune the memory hungry workload.

Note: loadavg can also increase due to CPU limits as processes are delayed when overuse their CPU.

Thanks,

Kirill

On May 22, 2012, at 14:49 , Rene C. wrote:

Hi Esme,

load could be caused by buffers that are full.

Thanks for the suggestion, much appreciated!

I didn't think of checking at the time I'm afraid. I suppose since the container has not been rebooted since, the beancounters should still show any problems encountered at the time right?

Below is the user_beancounters of the problem CT. I notice physpages and dcachesize have maxheld values very close to limits (even if failcnt is zero) could that have been the cause?

uid	resource	held	maxheld
barrier	limit	failcnt	
1407:	kmemsize	252703307	1124626432
1932525568	2147483648		0
	lockedpages	0	15
524288	524288	0	
	privvmpages	893372	5683554
9223372036854775807		9223372036854775807	0
	shmpages	23	7399
9223372036854775807		9223372036854775807	0

	dummy	0	0	
0	0	0		
	numproc	136	480	
9223372036854775807	9223372036854775807			0
	physpages	733468	1048591	
0	1048576	0		
	vmguarpages	0	0	
0	9223372036854775807	0		
	oomguarpages	137691	676209	
0	9223372036854775807	0		
	numtcpsock	101	459	
9223372036854775807	9223372036854775807			0
	numflock	7	37	
9223372036854775807	9223372036854775807			0
	numpty	1	4	
9223372036854775807	9223372036854775807			0
	numsiginfo	0	66	
9223372036854775807	9223372036854775807			0
	tcpsndbuf	4024896	34884168	
9223372036854775807	9223372036854775807			0
	tcprcvbuf	1654784	7520256	
9223372036854775807	9223372036854775807			0
	othersockbuf	195136	3887232	
9223372036854775807	9223372036854775807			0
	dgramrcvbuf	0	155848	
9223372036854775807	9223372036854775807			0
	numothersock	130	346	
9223372036854775807	9223372036854775807			0
	dcachesize	222868425	1073741824	
965738496	1073741824	0		
	numfile	3853	12765	
9223372036854775807	9223372036854775807			0
	dummy	0	0	
0	0	0		
	dummy	0	0	
0	0	0		
	dummy	0	0	
0	0	0		
	numiptent	197	197	
9223372036854775807	9223372036854775807			0

I'm not that familiar with the nitty-gritties of the beancounters but these are the values I have in the 1407.conf file.

PHYSPAGES="0:4096M"

SWAPPAGES="0:8192M"
KMEMSIZE="1843M:2048M"
DCACHESIZE="921M:1024M"
LOCKEDPAGES="2048M"
PRIVVMPAGES="unlimited"
SHMPAGES="unlimited"
NUMPROC="unlimited"
VMGUARPAGES="0:unlimited"
OOMGUARPAGES="0:unlimited"
NUMTCPSOCK="unlimited"
NUMFLOCK="unlimited"
NUMPTY="unlimited"
NUMSIGINFO="unlimited"
TCPSNDBUF="unlimited"
TCPRCVBUF="unlimited"
OTHERSOCKBUF="unlimited"
DGRAMRCVBUF="unlimited"
NUMOTHERSOCK="unlimited"
NUMFILE="unlimited"
NUMIPTENT="unlimited"

When user_beancounters physpage limit is 1048576, with PHYSPAGES set to 4GB, then the held value of 733468 should correspond to about 3GB, right? But top only shows about 1.5GB used at the same time - how is that possible?

dcachesize I think is filesystem stuff? But there seems to be plenty of resources there;

df -i

Filesystem	Inodes	IUsed	IFree	IUse%	Mounted on
/dev/simfs	20000000	3046139	16953861	16%	/
none	524288	109	524179	1%	/dev

df -h

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/simfs	492G	156G	312G	34%	/
none	2.0G	4.0K	2.0G	1%	/dev

Best,
Rene

<ATT00001.c>
