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Subject: Performance in my server is slow with 18 VEs. Normal ?

Posted by [jrabraga](#) on Sun, 18 Jul 2010 17:59:53 GMT

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Hi

Today I have in my server, 18 VEs. One run the system in RoR e the others 17, running basically the same application that runs 19:00 pm until 8:00 the next day, a period that the system in RoR is rarely used.

In those 17 VEs, in some moments the application runs a routine that handles small images .. When these 17 VEs are processing with low or zero (outside the above period), this routine is performed in a maximum of 3 seconds in a VE.

But when I run more than one VEs running this same routine at the same time is very slow, taking more than 30 seconds each execution

Below is the configuration of my server, I'm using the VEs and command vzcpucheck.

Does anyone have any tips on how to improve this?

Thank you very much

Renato

My Server

Intel(R) Core(TM)2 Quad CPU Q9400 @ 2.66GHz (4 processor in /proc/cpuinfo)

[root@server vz-scripts]# free -m

	total	used	free	shared	buffers	cached
Mem:	7967	6005	1962	0	465	2399
-/+ buffers/cache:			3141	4826		
Swap:	4110	349	3760			

Kernel

Linux server.changeme.com 2.6.18-194.3.1.el5.028stab069.5 #1 SMP Tue May 18 17:48:31 MSD 2010 x86\_64 x86\_64 x86\_64 GNU/Linux

Conf VE 101

ONBOOT="yes"

# UBC parameters (in form of barrier:limit)

KMEMSIZE="16384000:18022400"

LOCKEDPAGES="4096:4096"

PRIVVMPAGES="524288:524288"

SHMPAGES="524288:524288"

NUMPROC="400:400"

PHYSPPAGES="0:9223372036854775807"

VMGUARPPAGES="262144:9223372036854775807"

OOMGUARPPAGES="1536000:9223372036854775807"

NUMTCPSOCK="500:500"

NUMFLOCK="500:500"

NUMPTY="64:64"

NUMSIGINFO="512:512"

```
TCPSNDBUF="26843648:107374592"
TCPRCVBUF="107374592:289400832"
OTHERSOCKBUF="26842648:107374592"
DGRAMRCVBUF="26842648:107374592"
NUMOTHERSOCK="500:500"
DCACHESIZE="4194304:4194304"
NUMFILE="9312:9312"
AVNUMPROC="200:200"
NUMIPTENT="128:128"

# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="204800000:204800000"
DISKINODES="40000000:44000000"
QUOTATIME="0"

# CPU fair sheduler parameter
CPUUNITS="30000"

VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
OSTEMPLATE="ubuntu-9.10-x86_64"
ORIGIN_SAMPLE="vps.basic"
HOSTNAME="sys1"
IP_ADDRESS="192.168.1.101"
NAMESERVER="200.200.200.200"
CPULIMIT="400"

Conf others VEs
# UBC parameters (in form of barrier:limit)
KMEMSIZE="16384000:18022400"
LOCKEDPAGES="4096:4096"
PRIVVMPAGES="262144:262144"
SHMPAGES="262144:262144"
NUMPROC="400:400"
PHYS_PAGES="0:9223372036854775807"
VMGUAR_PAGES="262144:9223372036854775807"
OOMGUAR_PAGES="26112:9223372036854775807"
NUMTCP SOCK="500:500"
NUMFLOCK="500:500"
NUMPTY="64:64"
NUMSIGINFO="512:512"
TCPSNDBUF="26843648:107374592"
TCPRCVBUF="1720320:3000320"
OTHERSOCKBUF="26842648:107374592"
DGRAMRCVBUF="26842648:107374592"
NUMOTHERSOCK="500:500"
DCACHESIZE="4194304:4194304"
NUMFILE="9312:9312"
```

```
AVNUMPROC="200:200"
NUMIPTENT="128:128"
```

```
# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="10485760:11530240"
DISKINODES="200000:220000"
QUOTATIME="0"
```

```
# CPU fair sheduler parameter
CPUUNITS="25000"
```

```
VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
OSTEMPLATE="ubuntu-9.10-x86_64"
ORIGIN_SAMPLE="search"
HOSTNAME="search4"
IP_ADDRESS="192.168.1.105"
NAMESERVER="200.200.200.200"
CPULIMIT="300"
```

vzcpucheck

VEID	CPUUNITS
------	----------

0	27777
101	31250
102	25000
103	25000
104	25000
105	25000
106	25000
108	31250
109	25000
107	31250
110	25000
111	25000
113	25000
114	25000
115	25000
116	31250
112	25000
117	31250
118	31250

Current CPU utilization: 515277

Power of the node: 531946

Output values in %

veid	LowMem util	LowMem commit	RAM util	MemSwap commit	MemSwap util	Alloc limit	Alloc	Alloc
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118	0.19	10.80	1.54	1.02	7.09	1.25	19.81	36.76
117	0.16	10.80	2.27	1.50	7.09	1.75	19.81	36.76
112	0.08	10.26	0.11	0.10	3.55	0.16	11.19	11.19
116	0.10	10.80	1.54	1.05	7.09	1.15	19.81	36.76
115	0.08	10.26	0.11	0.11	3.55	0.17	11.19	11.19
114	0.08	10.26	0.11	0.11	3.55	0.17	11.19	11.19
113	0.08	10.26	0.11	0.11	3.55	0.17	11.19	11.19
111	0.08	10.26	0.11	0.11	3.55	0.17	11.19	11.19
110	0.08	10.26	0.11	0.11	3.55	0.16	11.19	11.19
109	0.08	10.26	0.11	0.11	3.55	0.17	11.19	11.19
108	0.13	10.26	1.93	1.48	3.55	1.48	11.19	11.19
106	0.08	10.26	0.11	0.11	3.55	0.16	11.19	11.19
105	0.07	10.26	0.11	0.11	3.55	0.16	11.19	11.19
104	0.14	10.26	4.13	2.76	3.55	2.96	11.19	11.19
103	0.20	10.26	4.41	2.96	27.55	3.59	11.19	11.19
101	0.41	18.84	3.43	4.23	54.65	4.75	13.45	21.93
107	0.10	10.26	1.76	1.19	3.55	1.39	11.19	11.19
102	0.18	10.26	4.38	2.94	3.55	3.32	11.19	11.19

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Summary: 2.32 194.86 26.38 20.09 149.63 23.13 229.46 288.80

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Subject: Re: Performance in my server is slow with 18 VEs. Normal ?

Posted by [maratrus](#) on Fri, 23 Jul 2010 08:30:27 GMT

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Hello,

your node is possibly overcommitted (commitment level is about 200% according to vzmemcheck output).

[http://wiki.openvz.org/User\\_Guide/Managing\\_Resources#Monitoring\\_Memory\\_Consumption](http://wiki.openvz.org/User_Guide/Managing_Resources#Monitoring_Memory_Consumption)

[http://wiki.openvz.org/UBC\\_systemwide\\_configuration](http://wiki.openvz.org/UBC_systemwide_configuration)

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Subject: Re: Performance in my server is slow with 18 VEs. Normal ?

Posted by [jrabraga](#) on Fri, 23 Jul 2010 14:10:24 GMT

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Hi

Thanks !!

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