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"
PHYSPAGES="0:9223372036854775807"
VMGUARPAGES="262144:9223372036854775807"
OOMGUARPAGES="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"
PHYSPAGES="0:9223372036854775807"
VMGUARPAGES="262144:9223372036854775807"
OOMGUARPAGES="26112:9223372036854775807"
NUMTCPSOCK="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  LowMem     RAM MemSwap MemSwap   Alloc   Alloc   Alloc
             util  commit    util    util  commit    util  commit   limit
```

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
Summary:	2.32	194.86	26.38	20.09	149.63	23.13	229.46	288.80