Subject: how to get the current HN CPU utilization by particular CT
Posted by knawnd on Thu, 12 May 2011 14:19:34 GMT
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Hi!

Sorry if that question has been already asked and answered before but I couldn't found the reply.
I wonder what the proper way is to determine the current HN CPU utilization by particular container? I need to know what percentage from total hardware node CPU power a certain CT consumes. It is mentioned in [1] the CPUUNITS and CPULIMIT parameters but as far as I understand they are used to set some HN CPU usage limits (mini and max

I wonder If the following algorithm is the proper one.
1) If CPULIMIT is not set then a formula would be as below:
(CPUUNITS assigned to particular CT) x (summary of user and system CPU consumption shown by top inside the CT) / (Power of the node" produced by vzcpucheck).
For example,

```
ct_cpuunits=`vzcpucheck -v|grep 139`
ct_user_cpu=`vzctl exec 139 top -bn1|grep -i "cpu(s)"|cut -d: -f2|awk
{'print $1'}`|cut -d% -f1
ct_sys_cpu=`vzctl exec 139 top -bn1|grep -i "cpu(s)"|cut -d: -f2|awk
{'print $2'}`|cut -d% -f1
total_hw_cpu=`vzcpucheck |tail -1|cut -d: -f2|tr -d '[:space:]'`

ct_cpu_usage = $ct_cpuunits * ($ct_user_cpu+$ct_sys_cpu) / $total_hw_cpu
```

2) if CPULIMIT is set then
(CPULIMIT assigned to particular CT) x (summary of user and system CPU consumption shown by top inside the CT)

Or there is a simpler way?

Thanks!
Nikolay.

[1] http://wiki.openvz.org/Resource_shortage#CPU