
Subject: Memory values & documentation

Posted by [ugo123](#) on Wed, 27 Jun 2007 07:48:13 GMT

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Hello,

Just a quick question for you guys....

I'm a total newbie to OpenVZ, coming from the Xen world.

I've installed it yesterday from a vanilla kernel and everything is working okay with the default settings, and it seems like it is a very good virtualization solution .

But, now it is time for me to configure it properly, and that's where I seriously bang my head....

So far, from what I've understood from the documentation :

vmguarpages -> the guaranteed and "real" memory assigned to the VM.

oomguarpages -> the guaranteed memory in case the HN is in out of memory condition, basically it should be the same value than vmguarpages in order to be "safe" in that case.

privvmpages -> the non guaranteed and "burst" zone of the VM.

Am I correct so far ?

But now, for the values, if I follow the wiki UBC page here :

http://wiki.openvz.org/UBC_configuration_examples_table

For the configuration C (which is eight VMs on a host with 2GB of RAM)....

I don't get the values and I don't want to follow something I don't get .

vmguarpages = 102,400, so it's roughly $102,400 * 4 \text{ KB} \approx 400 \text{ MB}$.

and privvmpages = 262,144, so it's roughly $262,144 * 4 \text{ KB} \approx 1 \text{ GB}$.

I'm quite ok for the privvmpages (if it's just a "burst" value and if I get it right), but how can you "guarantee" $400 \text{ MB} * 8 = 3.200 \text{ GB}$ of VM memory with only 2GB on the host ?!

Is that some kind of magic ? an error in the wiki ? or am I really dumb ?

I'm focused on that problem for a few hours now and I'm really stuck.... if you could answer me please

Thanks a lot,
Ugo PARSI