Subject: Scaling UBC values: Why? Posted by divB on Wed, 02 Sep 2009 14:14:15 GMT View Forum Message <> Reply to Message

[quote src="http://wiki.openvz.org/UBC_derived_configuration_examples"]Caution: do not subtract the values of one configuration from others.[/quote]

Why not? I found this warning on many locations.

Also it seems to me that man should only scale configurations with the forumla in http://wiki.openvz.org/Intermediate_UBC_configurations and never add/subtract values.

Why not?

Regards, divB

Subject: Re: Scaling UBC values: Why? Posted by maratrus on Fri, 04 Sep 2009 12:54:17 GMT View Forum Message <> Reply to Message

Hi,

all UBC configuration parameters should obey the consistency rules which are described at the page

http://wiki.openvz.org/UBC_consistency_check

It's just a simple math exercise For example Let's assume that there are exist two configuration examples. Each of them should obey the inequalities that are described in a page mentioned above i.e.

privvmpages_1_bar >= vmguarpages_1_bar privvmpages_2_bar >= vmguarpages_2_bar

lf

privvmpages_3_bar = a_1*privvmpages_1_bar + a_2*privvmpages_2_bar vmguarpages_3_bar = a_1*vmguarpages_1_bar + a_2*vmguarpages_2_bar a_1 + a_2 = 1, a_1 >= 0, a_2 >= 0

then the consistency rule is still being held

privvmpages_3_bar >= vmguarpages_3_bar

So, the third configuration which is obtained as

[THIRD_CONFIGURATION] = $a_1^{FIRST}_CONFIGURATION$] + $a_2^{FISECOND}_CONFIGURATION$] $a_1>=0, a_2>=0, a_1 + a_2 = 1$

obey the consistency rule.

Consider another rule

tcprcvbuf_1_bar >= 64 tcprcv)buf_2_bar >= 64

So, the third configuration which is obtained as

[THIRD_CONFIGURATION] = a_1*[FIRST_CONFIGURATION] + a_2*[SECOND_CONFIGURATION] a_1>=0, a_2>=0, a_1 + a_2 = 1

should obtain this rule too

```
tcprcvbuf_3_bar = a_1*tcprcvbuf_1_bar + a_2*tcprcv)buf_2_bar >= a_1*64 + a_2*64 = 64*(a_1 + a_2) = 64
```

because $a_1 + a_2 = 1$.

But subtraction doesn't guarantee that all rules are preserved. Example

5 > 3, 4 > 1 but (5 - 4) < (3 - 1) because 1 < 2

Subject: Re: Scaling UBC values: Why? Posted by divB on Fri, 04 Sep 2009 17:23:28 GMT View Forum Message <> Reply to Message

Oh, thank you very much, now that's clear.

That means that I can also add/subtract specific values if I run vzcfgvalidate afterwards?

Regards,

Page 3 of 3 ---- Generated from OpenVZ Forum