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Subject: Re: Bug (?): vzcfgvalidate not working  
Posted by [divB](#) on Tue, 01 Sep 2009 10:35:52 GMT  
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And it's me again.

Yes, I think setting all the UBC values on ones own is too complex except for fine tuning/special purposes.

I found a manual for Virtuozzo called "Virtuozzo Management of System Resources". This original manual from SW states:

Quote:The best and easiest way to configure resource management parameters for a new Virtual Environment is to produce the configuration at once, using commands operating with the configuration as a whole, rather than to set the parameters individually

The manual described to:

- Split the hardware resources with `vzsplit`
- Validate the config with `vzcfgvalidate`
- If there are more and less powerful VEs on a single node, use `vzcfgscale` to scale up or down the configs
- Apply them using `vzctl --applyconfig`
- Check usage with `vzcalc` on per-machine basis and `vzmemcheck` for the system as a whole

That sounds nicer to me. Unfortunately `vzcfgscale` is not included in OpenVZ. However, I used the following way to partitionate my resources:

- I have 1 GB of RAM and 4 GB of swap and have 8 VEs
- I use `vzsplit -s "2 GB" -n 8 -f hn-by-10` to produce a config for 8 VEs. This way I have 2 GB of swap in spare.
- Validate with `vzcfgvalidate`. No errors/warnings found
- Apply to my VEs with `vzctl --applyconfig`

Now this is my memory map:

```
# vzmemcheck -v
Output values in %
veid    LowMem LowMem  RAM MemSwap MemSwap  Alloc  Alloc  Alloc
        util  commit  util  util  commit  util  commit  limit
400     1.73 13.12 11.84  2.69  8.45  7.62  8.45 15.83
302     0.64 13.12  6.45  1.54  8.45  2.59  8.45 15.83
301     1.18 13.12  7.64  2.50  8.45  2.71  8.45 15.83
```

300	0.28	13.12	0.40	0.10	8.45	0.56	8.45	15.83
202	0.32	13.12	0.47	0.13	8.45	0.29	8.45	15.83
201	0.93	13.12	1.30	0.32	8.45	8.32	8.45	15.83
200	1.99	13.12	8.58	1.95	8.45	7.41	8.45	15.83

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Summary: 7.06 91.87 36.69 9.23 59.14 29.49 59.14 110.83

So I guess I have much resources for spare in case I want to scale up one of the VEs. In this case I would try to manually scale down the less power-VEs and scale up the powerful ones using the formula in [http://wiki.openvz.org/Intermediate\\_UBC\\_configurations](http://wiki.openvz.org/Intermediate_UBC_configurations).

I think this is the way to go rather than setting all the parameters on ones own.

What is your opinion?

divB

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