## Subject: \*SOLVED\* Set available memory Posted by mdekkers on Wed, 06 Jun 2007 15:44:49 GMT

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Hi all.

I'm a bit confused - I would like to set a VE to have roughly 1.5GB memory and about 5000 processes available. I cant for the life of me work out what values to use.

Any help would be greatly appreciated.

Thanks

Martijn

Subject: Re: Set available memory Posted by rickb on Wed, 06 Jun 2007 15:49:13 GMT View Forum Message <> Reply to Message

-Is this the only VE on the server? -How much memory does your node have? -do vou want the VE to have max 1.5GB or guaranteed 1.5GB?

I can help you with your config. There are many memory metrics which can be confusing but also vastly increase efficiency (assuming more then 1 VE) vs. vmware virtualization style of "1.5GB".

Subject: Re: Set available memory Posted by mdekkers on Wed, 06 Jun 2007 15:58:54 GMT View Forum Message <> Reply to Message

Hi Rick,

Thanks for getting back - appreciated.

- This is the "main" ve on the server. There will be 1 or 2 more, but they can all be tiny, memory-wise as they will run minimal stuff, and none are important.

- The HN has 2048Mb of RAM

- I am not sure if I understand the difference.

heh - yes, I come from a VMWare background, mainly, so a lot of this is more or less new to me.

Thanks

Martijn

Subject: Re: Set available memory Posted by mdekkers on Fri, 08 Jun 2007 11:20:42 GMT View Forum Message <> Reply to Message

can anyone give me some pointers on how to quickly set the available memory size? I read the beancounter document, but cant seem to get a valid config up and running.

Thanks a lot

Martijn

Subject: Re: Set available memory Posted by rickb on Fri, 08 Jun 2007 11:29:56 GMT View Forum Message <> Reply to Message

Hi. I would set your privvmpages to 4GB, oomguarpags to 1.5GB, vmguarpags to 1.5GB, numproc to 5000. Add at least 2GB swap on your node just for safety.

remember the UBCs are in pages. 1 page = 4096 byte on 32bit.

This will give your VE the memory capabilities you are looking for.

Subject: Re: Set available memory Posted by mdekkers on Fri, 08 Jun 2007 11:53:24 GMT View Forum Message <> Reply to Message

Thanks for asnwering - sorry to be a total numpty here, but I am now thoroughly confused about setting these values

output from cat /proc/user\_beancounters:

cat /proc/user\_beancounters

held i	maxheld	barrier	limit fa	ailcnt	
11780	82 2609	9126 27	752512 2	936012	0
0	0	32 3	32 0		
7077	43511	49152	2 53575	252	
181	837	8192	8192	0	
	11780 0 7077	1178082 2609 0 0 7077 43511	1178082 2609126 27 0 0 32 3 7077 43511 49152	117808226091262752512200323207077435114915253575	117808226091262752512293601200323207077435114915253575252

dummy	0	0	0	0	0		
numproc	20	51	65	65	0		
physpages	3705	1474	43	0 21474	83647	0	
vmguarpages	0	0	6144	214748	3647	0	
oomguarpages	s 370	5 14	1743	6144 21	474836	47	0
numtcpsock	2	6	80	80	0		
numflock	1	10	100	110	0		
numpty	1	4	16	16	0		
numsiginfo	0	11	256	256	0		
tcpsndbuf	0	60448	31948	8 524	288	0	
tcprcvbuf	0 6	76296	62948	8 102	4288	3224	
othersockbuf	2232	1730	04 132	2096	336896	0	
dgramrcvbuf	0	8376	1320	96 13	2096	0	
numothersock	1	9	80	80	0		
dcachesize	0	0	1048576	6 1097	728	0	
numfile	426	979	2048	2048	6 0		
dummy	0	0	0	0	0		
dummy	0	0	0	0	0		
dummy	0	0	0	0	0		
numiptent	14	14	128	128	0		

Is this listed in pagesizes, or in KB? also, from my conffile:

cat 1001.conf | grep -i privv PRIVVMPAGES="49152:53575"

I am trying to work out how to get the right value to feed to privvmpages, but none of the numbers that come up seem right.

Subject: Re: Set available memory Posted by rickb on Fri, 08 Jun 2007 12:39:11 GMT View Forum Message <> Reply to Message

all of the metrics that end in pages, are in pages.

PRIVVMPAGES="49152:53575"

49152 pages = ~200MB

So, this VE can allocate at most a little over 200MB. this is very low and will cause many problems if you want to run a LAMP deployment or anything other then a basic service.