Subject: High number of /proc/user_beancounters failcnt
Posted by ittec on Mon, 18 Feb 2008 09:56:55 GMT
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Hi again

i read a lot of threads about OpenVz and its memory sistem and how you can see the guaranted memory limit for each VE. I know that, privvmpages assign the total of "real" memory to VE as:

TotVeRam = privvmpages * 4

So if you have

privvmpages = 155119, the total of RAM to one VE is 620476 Kb, as you can see into VE when you run a top or you make #cat /proc/meminfo (into Ve)Well, this number of privvmpages is a result of a split(5) one HN but this VE have a lot of traffic and # cat /proc/user_beancounters show the next:

privvmpages

privvmpages 33870 171049 155119 170630 647449

As i can read in another post, privvmpages:

1. provide any guarantee for memory allocation
2. provide a strong limit for the memory consumption of your VE

My question is, based in number of privvmpages fails how i setup the privvmpages of VE conf to guarantee more memory allocation? I ask this because I did a --split 5 of HN so if now i modify this value only to one VE im breaking this split. At the moment I try to increase this number with caution but i have no reference about how do it.

Thanks

Subject: Re: High number of /proc/user_beancounters failcnt
Posted by maratrus on Mon, 18 Feb 2008 10:13:22 GMT
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Hi,

sorry, but can you please specify what does it mean
Quote: I did a --split 5 of HN ?
You might have used vzsplit utility.

You can increase barrier and limit for privvmpages with vzctl utility.
vzctl set <VE_ID> --privvmpages <VAL1>:<VAL2>
VE_ID - your VE ID

VAL1 - barrier value
VAL2 - limit value

Subject: Re: High number of /proc/user_beancounters failcnt
Posted by ittec on Mon, 18 Feb 2008 10:28:21 GMT
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Quote:Hi,

sorry, but can you please specify what does it mean
Quote:

I did a --split 5 of HN
?

Hi maratrus

I created the VE with this command:

vzctl create 249034 --ostemplate centos-4-i386-minimal --config split5

I know how increase the barrier and limit of privvmpages but Im confused about which values I need to setup to avoid failcnt troubles. Increasingly the barrier and limit of VE to assign about 256MB more each time? Im not sure if Im explaining me good excuse me.

Thanks.

Subject: Re: High number of /proc/user_beancounters failcnt
Posted by kir on Mon, 18 Feb 2008 10:57:52 GMT
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See http://wiki.openvz.org/Resource_shortage

Subject: Re: High number of /proc/user_beancounters failcnt
Posted by maratrus on Mon, 18 Feb 2008 11:14:30 GMT
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Hi,

I can suggest you such decision.
Set barrier and limit to huge values. Start your applications inside VE and then look at UBC via /proc (held and maxheld columns). In such way you can obtain approximate consumption of

privvpages. Then you can decrease privvpages.

Subject: Re: High number of /proc/user_beancounters failcnt
Posted by JimL on Mon, 18 Feb 2008 12:18:29 GMT
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kir wrote on Mon, 18 February 2008 05:57See http://wiki.openvz.org/Resource_shortage
Hi, Kir,

I think what he is trying to ask is more along the lines of "how big should I make it and if I guess too big, what will be the consequences?" I think Matarus is on the right track, but the question is still "what are the consequences of running a resource too high?" Especially if you have a number of VEs running into limits.

The reason I jumped in is that I've always been concerned about this issue too.

Jim.

Subject: Re: High number of /proc/user_beancounters failcnt
Posted by kir on Mon, 18 Feb 2008 13:38:39 GMT
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JimL wrote on Mon, 18 February 2008 15:18I think what he is trying to ask is more along the lines of "how big should I make it and if I guess too big, what will be the consequences?" I think Matarus is on the right track, but the question is still "what are the consequences of running a resource too high?" Especially if you have a number of VEs running into limits.

The reason I jumped in is that I've always been concerned about this issue too.

Right.

System-wide UBC constraints are explained in great details at http://wiki.openvz.org/UBC_systemwide_configuration. Also, there is a utility that shows you some numbers using the formulae from the above article.

Subject: Re: High number of /proc/user_beancounters failcnt
Posted by JimL on Mon, 18 Feb 2008 14:20:40 GMT
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Hi, Kir,
Thanks.

Quote:
Right.

System-wide UBC constraints are explained in great details at http://wiki.openvz.org/UBC_systemwide_configuration. Also, there is a utility that shows you some numbers using the formulae from the above article.
Note the url Kir included has an extra period which leads you to nowhere.

It should be: http://wiki.openvz.org/UBC_systemwide_configuration

Jim.

Subject: Re: High number of /proc/user_beancounters failcnt
Posted by kir on Mon, 18 Feb 2008 14:42:15 GMT
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Thanks for correction. I have fixed the URL in my original comment.

Subject: Re: High number of /proc/user_beancounters failcnt
Posted by ittec on Mon, 18 Feb 2008 15:58:46 GMT
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Yeah, thanks

My trouble was not how modify the values but find a properly policy to assign resources. For example, as I say before, I have created a VE with --config split5, I mean, to divide whole phisical resources into "5" VE machines. But now,Im increasing individually one parameter of one VE so the policy of divide resources into 5 same VE is "not correct".

Before
#PRIVVMPAGES="155119:170630"
After
PRIVVMPAGES="262144:275000"

Now I have increase the total value of RAM to 2^20. I hope this avoid the latest errors this VE. When i noticed the errors of this VE, its was unable to access into shell of Ve. I had to stop and start VE to enter by ssh.

Thanks!
