
Subject: privvmpages failcnt high
Posted by [GrrrRomeo](#) on Sat, 17 Mar 2007 12:56:45 GMT
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I'm trying to make sense of why I keep running out of resources on my host. I'm supposed to have 512M of RAM guarantee. From my understanding after reading up on privvmpages, I'm running out of allocated memory that isn't actually being used.

| resource | held | maxheld | barrier | limit | failcnt |
|--------------|---------|---------|----------|------------|---------|
| kmemsize | 7495490 | 7513202 | 22111846 | 22754099 | 23664 |
| lockedpages | 0 | 0 | 512 | 512 | 0 |
| privvmpages | 111248 | 111255 | 131072 | 139264 | 1241 |
| shmpages | 6068 | 6068 | 43008 | 43008 | 0 |
| dummy | 0 | 0 | 0 | 0 | 0 |
| numproc | 66 | 66 | 480 | 480 | 0 |
| physpages | 53024 | 53028 | 0 | 2147483647 | 0 |
| vmguarpages | 0 | 0 | 67584 | 2147483647 | 0 |
| oomguarpages | 54252 | 54256 | 52224 | 2147483647 | 0 |
| numtcpsock | 18 | 19 | 720 | 720 | 0 |
| numflock | 7 | 7 | 376 | 412 | 0 |
| numpty | 1 | 1 | 32 | 32 | 0 |
| numsignfo | 0 | 1 | 512 | 512 | 0 |
| tcpsndbuf | 206068 | 219484 | 3440640 | 5406720 | 0 |
| tcprcvbuf | 294912 | 294912 | 3440640 | 5406720 | 0 |
| othersockbuf | 15208 | 15208 | 2252160 | 4194304 | 0 |
| dgramrcvbuf | 0 | 0 | 524288 | 524288 | 0 |
| numothersock | 14 | 14 | 720 | 720 | 0 |
| dcachesize | 0 | 0 | 6819840 | 7249920 | 0 |
| numfile | 2861 | 2870 | 18624 | 18624 | 0 |
| dummy | 0 | 0 | 0 | 0 | 0 |
| dummy | 0 | 0 | 0 | 0 | 0 |
| dummy | 0 | 0 | 0 | 0 | 0 |
| numiptent | 10 | 10 | 256 | 256 | 0 |

Subject: Re: privvmpages failcnt high
Posted by [kir](#) on Sat, 17 Mar 2007 19:33:59 GMT
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Quote:kmemsize 7495490 7513202 22111846 22754099 23664

I can think of two reasons for that:

1. Something tries to allocate a huge amount of kmem at once. Here 'huge' means more than 22111846-7495490. Well, I'd say -- very improbable.

2. Barrier and limit were increased after you got those fails. Can be checked by seeing if failcnt keeps growing or not.

Subject: Re: privvmpages failcnt high
Posted by [sspt](#) on Sun, 18 Mar 2007 20:44:19 GMT
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Or the node is overcommitted

Subject: Re: privvmpages failcnt high
Posted by [kir](#) on Mon, 19 Mar 2007 09:07:28 GMT
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Quote:Or the node is overcommitted

In fact, the only time failcnt is increasing is then the value of a parameter hits the limits. So, if the node is overcommitted, you'll have errors/fails in your apps, but failcnt will not be increased.

Subject: Re: privvmpages failcnt high
Posted by [sPENKMAN](#) on Tue, 20 Mar 2007 19:56:42 GMT
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You are aware of the fact that privvmpages is measured in pages right?

So in fact your privvmpages limit is 544MB. That still doesn't explain the fact that there is a gap of 28009 pages (109MB) between your maxheld and limit.

It could be that at a certain point you VE tries to allocate 109MB+ memory although I have my doubts about that.

What do you exactly mean by "I'm running out of allocated memory that isn't actually being used."
?

Subject: Re: privvmpages failcnt high
Posted by [GrrrlRomeo](#) on Tue, 20 Mar 2007 21:40:21 GMT
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Yes, I know privvmpages is measured in pages. The reason why I say it's allocated but not actually used is because privvmpages maxes out when I'm only actually using something like 50% of memory. Where 512M may be allocated by applications, only 256M is being used. In other

words, something is allocating much more memory than is actually needed.

I have tried hunting for any leaks in my scripts, but didn't find any. But as I didn't actually set the VPS up I don't know what else to look for.

Subject: Re: privvmpages failcnt high

Posted by [sPENKMAN](#) on Tue, 20 Mar 2007 21:51:28 GMT

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On which bases do you conclude that you are only using 256MB? Looking at your beancounters you are using 434MB.

Subject: Re: privvmpages failcnt high

Posted by [GrrrIRomeo](#) on Thu, 22 Mar 2007 04:43:44 GMT

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privvmpages is memory that has been allocated by applications but not necessarily used. oomguarpages is the amount of memory actually use (in this case actually 211MB). That's what I've read anyway.

Subject: Re: privvmpages failcnt high

Posted by [sPENKMAN](#) on Sat, 24 Mar 2007 17:46:12 GMT

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GrrrIRomeo wrote on Thu, 22 March 2007 05:43privvmpages is memory that has been allocated by applications but not necessarily used. oomguarpages is the amount of memory actually use (in this case actually 211MB). That's what I've read anyway.

True, but memory which is allocated can't be allocated by other VE's so it seems only logical that the value of privvmpages is used to measure the current memory which has been assigned to the VE?

To be honest, I still don't understand the memory assignment very well but learning along the road.
