
Subject: Help with failed LockPages UBC

Posted by [joelee](#) on Thu, 14 Feb 2008 03:50:22 GMT

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Hi All,

I've been running this VPS for over 3months with no problems. Suddenly, I noticed my application would not start. I checked the UBC and noticed the "LOCKPAGES" resource registered failcnt...

I tried to increment this parameter with no success. I have not installed anything additional to this VPS. The application running on this VPS is an email/postfix App.

Note: Have not added any other VPS on the system either..

uid	resource	held	maxheld	barrier	limit	failcnt
105:	kmemsize	373088	411281	2147483647	2147483647	0
	lockedpages	0	0	32	32	0
	privvmpages	984	997	2147483647	2147483647	0
	shmpages	1	2	8192	8192	0
	dummy	0	0	0	0	0
	numproc	8	9	1000	1000	0
	physpages	641	641	0	2147483647	0
	vmguarpages	0	0	384000	2147483647	0
	oomguarpages	641	641	2147483647	2147483647	0
	numtcpsock	0	0	200	200	0
	numflock	0	1	100	110	0
	numpty	0	0	16	16	0
	numsiginfo	0	1	256	256	0
	tcpsndbuf	0	0	319488	2147483647	0
	tcprcvbuf	0	0	319488	2147483647	0
	othersockbuf	4464	4464	319488	2147483647	0
	dgramrcvbuf	0	0	132096	132096	0
	numothersock	2	3	250	250	0
	dcachesize	0	0	1048576	4992000	0
	numfile	127	143	13000	13000	0
	dummy	0	0	0	0	0
	dummy	0	0	0	0	0
	dummy	0	0	0	0	0
	numiptent	10	10	128	128	0

Upon booting the VPS the lockpages resource is clean... As soon as I try to ssh into the VPS it fails the ssh connection. And, upon checking the UBC again - I get the failcnt - see below.

uid	resource	held	maxheld	barrier	limit	failcnt
105:	kmemsize	698314	923366	2147483647	2147483647	0
	lockedpages	32	32	32	32	22

privvmpages	3358	54372	2147483647	2147483647	0
shmpages	6	6	8192	8192	0
dummy	0	0	0	0	0
numproc	14	23	1000	1000	0
physpages	2240	5770	0	2147483647	0
vmguarpages	0	0	384000	2147483647	0
oomguarpages	2240	5770	2147483647	2147483647	0
numtcpsock	1	2	200	200	0
numflock	1	3	100	110	0
numpty	0	0	16	16	0
numsiginfo	0	2	256	256	0
tcpsndbuf	0	0	319488	2147483647	0
tcprcvbuf	0	0	319488	2147483647	0
othersockbuf	13392	15624	319488	2147483647	0
dgramrcvbuf	0	8376	132096	132096	0
numothersock	8	11	250	250	0
dcachesize	0	0	1048576	4992000	0
numfile	323	480	13000	13000	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
numiptent	10	10	128	128	0

Would appreciate any HELP/Suggestions... Can't start the application.

Joe

Subject: Re: Help with failed LockPages UBC
 Posted by [xemul](#) on Thu, 14 Feb 2008 07:48:03 GMT
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As the quick and easy test you may set llockedpages to some very high value (like 2147483647) and check the maxheld after the application successful start.

Besides, you may start this app under strace like this
 strace -fF -o log -e mlock,mlockall <app>
 and check how many memory this application is trying to lock

Subject: Re: Help with failed LockPages UBC
 Posted by [joelee](#) on Thu, 14 Feb 2008 17:37:19 GMT
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xemul, thanks for the reply... I will try your suggestions. However, I have this question. Since, my UBC settings for the lockpages were initial set with the default of 32:32 and the app worked fine for a long time with that setting - I am wondering how it worked with that low setting before. Also,

before I posted the error, I increased that setting at 64:64... up to 512:512... and same problem.

I guess I trying to understand if the lockpages value is typically that high? The other nagging question is when I did a vzcfgvalidate against that VPS no error was reported by it. I've had no success in the past where vzcfgvalidate worked - I don't know how useful is this command tool.

Anyway thanks for the tips... I will try them and report findings!

Joe
