
Subject: ***SOLVED*** need help installing Oracle 10g -- heap error

Posted by [dreed](#) on Fri, 26 May 2006 03:19:38 GMT

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I've been banging my head on this one -- maybe somebody smarter than me can help:

I'm trying to install Oracle 10g on a virtual, and the installer refuses to start, with this error:

Error occurred during initialization of VM

Could not reserve enough space for object heap

The host node can run this fine, so I know the hardware is capable.

Host node is CentOS 4.3, the virtual is the pre-made template for CentOS 4.

This looks like a jre memory problem. Oracle's install instructions suggest these changes to /etc/sysctl.conf:

```
kernel.shmall = 2097152
kernel.shmmax = 536870912
kernel.shmmni = 4096
kernel.sem = 250 32000 100 128
fs.file-max = 65536
net.ipv4.ip_local_port_range = 1024 65000
net.core.rmem_default=262144
net.core.wmem_default=262144
net.core.rmem_max=262144
net.core.wmem_max=262144
```

I added those on the virtual, but when I run sysctl -p, I get this:

```
net.ipv4.ip_forward = 0
error: unknown error 1 setting key 'net.ipv4.conf.default.rp_filter'
error: unknown error 1 setting key 'net.ipv4.conf.default.accept_source_route'
error: unknown error 1 setting key 'kernel.sysrq'
error: unknown error 1 setting key 'kernel.core_uses_pid'
kernel.shmall = 2097152
kernel.shmmax = 536870912
kernel.shmmni = 4096
kernel.sem = 250 32000 100 128
error: unknown error 1 setting key 'fs.file-max'
error: unknown error 1 setting key 'net.ipv4.ip_local_port_range'
error: unknown error 1 setting key 'net.core.rmem_default'
error: unknown error 1 setting key 'net.core.wmem_default'
error: unknown error 1 setting key 'net.core.rmem_max'
error: unknown error 1 setting key 'net.core.wmem_max'
```

Related to the problem with the java heap?

Any help here, or instructions on a someone else's succesful Oracle 10g installation would be
really welcome...

Subject: Re: need help installing Oracle 10g -- heap error
Posted by [Vasily Tarasov](#) on Fri, 26 May 2006 04:28:49 GMT
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You hit some some limits inside VE.

Look in /proc/user_beancounters, after unsuccessful try of Oracle installation. Using information from last column you can determine which limits were hitted. Then just increase appropriate limits by vzctl.

HTH.

Subject: Re: need help installing Oracle 10g -- heap error
Posted by [dreed](#) on Fri, 26 May 2006 13:59:42 GMT
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Here's what I see in /proc/user-beancounter:

[]

Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt	
100:	kmemsize	927864	1077390	2752512	2936012		0
	lockedpages	0	0	32	32	0	
	privvmpages	5318	14574	49152	53575	2	
	shmpages	679	695	8192	8192	0	
	dummy	0	0	0	0	0	
	numproc	19	24	65	65	0	
	physpages	2554	3391	0	2147483647	0	
	vmguarpages	0	0	6144	2147483647	0	
	oomguarpages	2554	3391	6144	2147483647	0	0
	numtcpsock	4	4	80	80	0	
	numflock	3	4	100	110	0	
	numpty	1	1	16	16	0	
	numsiginfo	0	2	256	256	0	
	tcpsndbuf	2228	11140	319488	524288	0	
	tcprcvbuf	0	2228	319488	524288	0	
	othersockbuf	2228	10200	132096	336896	0	
	dgramrcvbuf	0	8372	132096	132096	0	
	numothersock	5	17	80	80	0	
	dcachesize	93562	110853	1048576	1097728	0	

numfile	248	299	2048	2048	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

[]

I'll try setting privvmpages, which is the only one that looks like it has a failure.

Subject: Re: need help installing Oracle 10g -- heap error

Posted by [dreed](#) on Fri, 26 May 2006 15:16:08 GMT

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That worked! I wound up using vzctl set 100 --privvmpages 200000 to get the Oracle Installer to run.

Thanks.
