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Subject: Zimbra on OpenVz

Posted by [burn](#) on Wed, 09 Dec 2009 13:10:09 GMT

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I tried to install Zimbra 6.0.3 into OpenVZ container, and failed. Google search led me to [http://wiki.openvz.org/Zimbra\\_on\\_OpenVZ\\_on\\_CentOS](http://wiki.openvz.org/Zimbra_on_OpenVZ_on_CentOS) , which suggests increasing memory pages until failcnt drops to zero. It did the trick, but if I understand correctly, increasing memory beyond available leads to potentially unstable configuration. And in the wiki example there is about 8Tb of privvmpages granted to the zimbra container. Could anyone clarify? Is it a recommended setup? Any personal experience with running Zimbra in OpenVZ would be welcome, too.

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Subject: Re: Zimbra on OpenVz

Posted by [kir](#) on Wed, 09 Dec 2009 13:22:17 GMT

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That is why I have added a warning to that page:

Quote:Warning: The above UBC values might not be consistent; see UBC consistency check.

You have to learn UBCs in order to be able to set them up correctly. But for the test run on a test server you can use unlimited configuration.

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Subject: Re: Zimbra on OpenVz

Posted by [burn](#) on Wed, 09 Dec 2009 13:57:00 GMT

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I've read it, and by these criterias 8 Tb of privvmpages is pretty consistent. Still, I have doubts that such extreme overcommitment of allocated memory is stable.

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Subject: Re: Zimbra on OpenVz

Posted by [batfastad](#) on Fri, 18 Dec 2009 10:16:50 GMT

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Hi burn

Have you actually been able to get Zimbra to run without failcnt on privvmpages?

I'm trying to do the same thing... but no matter what value of privvmpages I enter as barrier & limit, I still get a failcnt of about ~17600 for privvmpages. Even if I enter it as ridiculously high per that example in the wiki.

Cheers, B

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Subject: Re: Zimbra on OpenVz  
Posted by [burn](#) on Fri, 18 Dec 2009 12:41:22 GMT  
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I haven't yet put it into production, but it runs for a week now, and failcnt is still 0. I'm using the latest Proxmox VE. The container is Centos 5.4 x86\_64, Zimbra version 6.0.3 OSE. Both ram and swap are set to 2,5 Gb in Proxmox interface, and I manually increased privvmpages up to 64 Gb.

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Subject: Re: Zimbra on OpenVz  
Posted by [batfastad](#) on Fri, 18 Dec 2009 12:57:07 GMT  
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Hi burn  
Thanks for the reply. So when you say you upped privvmpages to 64Gb, what was the actual value you used?  
I'm still getting confused by the maths in converting MB/GB to pages

I'm not running Proxmox, just plain CentOS 5.4 and OpenVZ... kind of wish I was running Proxmox now though

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Subject: Re: Zimbra on OpenVz  
Posted by [burn](#) on Fri, 18 Dec 2009 14:00:47 GMT  
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One privvmpage unit is 4 kb of memory. Here's the entire container config, see if it helps

```
amber:/etc/vz/conf# cat 107215.conf  
# PVE default config for 256MB RAM
```

```
ONBOOT="no"
```

```
# Primary parameters
```

```
NUMPROC="1024:1024"
```

```
NUMTCPSOCK="9223372036854775807:9223372036854775807"
```

```
NUMOTHERSOCK="9223372036854775807:9223372036854775807"
```

```
VMGUARPAGES="1310720:9223372036854775807"
```

```
# Secondary parameters
```

```
KMEMSIZE="9223372036854775807:9223372036854775807"
```

```
OOMGUARPAGES="1310720:9223372036854775807"
```

```
PRIVVMPAGES="15728640:16777216"
```

```
TCPSNDBUF="9223372036854775807:9223372036854775807"
```

```
TCPRCVBUF="9223372036854775807:9223372036854775807"
```

```
OTHERSOCKBUF="9223372036854775807:9223372036854775807"
```

```
DGRAMRCVBUF="9223372036854775807:9223372036854775807"
```

# Auxiliary parameters

```
NUMFILE="9223372036854775807:9223372036854775807"  
NUMFLOCK="9223372036854775807:9223372036854775807"  
NUMPTY="255:255"  
NUMSIGINFO="1024:1024"  
DCACHESIZE="9223372036854775807:9223372036854775807"  
LOCKEDPAGES="655360:655360"  
SHMPAGES="9223372036854775807:9223372036854775807"  
NUMIPTENT="9223372036854775807:9223372036854775807"  
PHYSPAGES="0:9223372036854775807"
```

# Disk quota parameters

```
DISKSPACE="67108864:73819750"  
DISKINODES="12800000:14080000"  
QUOTATIME="0"  
QUOTAUGIDLIMIT="0"
```

# CPU fair sheduler parameter

```
CPUUNITS="1000"  
CPUS="1"  
VE_ROOT="/var/lib/vz/root/$VEID"  
VE_PRIVATE="/var/lib/vz/private/$VEID"  
OSTEMPLATE="centos-5-standard_5.4_amd64"  
ORIGIN_SAMPLE="pve.auto"  
IP_ADDRESS="192.168.107.215"  
HOSTNAME="mail.domain.com"  
NAMESERVER="192.168.102.5 192.168.101.112"  
SEARCHDOMAIN="domain.com"
```

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