

Re: Tuning for large outbound smtp queues

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2004-02/0035.html>

From: TEC Meganet (*tec_at_mega.net.br*)

Date: 02/18/04

To: freebsd-performance@freebsd.org
Date: Wed, 18 Feb 2004 01:35:56 +0000

I have a server with similar load but do not have problems at all what calls attention is that you use ide disk on a server ... and your swap is in use what means your ram memory is too low btw without sysctl hw and kernel compile options and eventually sysctl options it's hard to give you hints

general hint: why notifying the virus sender and spammer? you believe they care or even exist? you are creating part of your own troubles since most of this notify msgs are coming back to you as delivery error:)

JM

Mike Tanca (mike@sentex.net) escreve:

>
>
> *We have separate inbound and outbound smtp servers and I am looking to
> better tune the boxes (2 of them) that spool my network's outbound
> mail. As a result of the zillion viruses and n*zillion spams bouncing back
> to networks that dont accept mail, I am seeing some very large queues for
> sendmail. Apart from
>
> define(`confTO_IDENT', 0s)
> define(`QUEUE_DIR', `/var/spool/mqueue/q*')dnl
>
> where there are 60 q directories I havent really tuned sendmail nor the
> OS. However, as the volume grows, the box becomes quite sluggish. Is it
> just a matter of throwing more hardware at the issue, or can I better tweak
> RELENG_4 and sendmail to deal with massive (80,000+) queues ? Allocating
> more memory to caching the filesystem for example ?
>
> Here is a quick snapshot.
>
> smtp3# vmstat -c 100
> procs memory page disk faults cpu
> r b w avm fre flt re pi po fr sr ad0 in sy cs us sy id
> 3 10 0 390168 36660 491 0 0 0 717 98 0 504 1749 430 3 7 90
> 1 13 0 390964 35604 204 0 0 0 225 0 107 407 1155 166 2 10 87*

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```
> 3 8 0 391672 37112 543 0 0 0 1359 0 110 470 1862 163 1 13 85
> 1 11 0 461436 37316 149 0 0 0 285 0 105 422 1409 190 0 9 91
> 2 12 0 459796 37700 247 0 0 0 357 0 104 418 1620 177 2 9 89
> 3 10 0 460924 36612 249 0 0 0 201 0 105 457 2017 185 1 10 88
> 2 12 0 486584 36888 39 0 0 0 201 0 106 402 1156 164 1 7 92
> 3 9 0 484632 37280 195 0 0 0 355 0 110 445 1426 184 1 8 90
> 2 11 0 503260 37628 23 0 0 0 172 0 105 401 706 127 0 7 93
> 4 7 0 503260 37372 58 0 0 0 30 0 99 384 931 107 1 7 91
> 2 10 0 529064 36480 202 0 0 0 176 0 110 429 1400 143 1 10 90
> 2 8 0 527280 36900 114 0 0 0 306 0 109 382 681 130 1 9 90
> 3 8 0 533508 36592 5 0 0 0 16 0 107 365 641 111 1 4 95
> 3 9 0 534364 35840 167 0 0 0 138 0 105 375 919 109 1 9 90
> ^C
> smtp3# iostat -c 100
> tty ad0 cpu
> tin tout KB/t tps MB/s us ni sy in id
> 0 2 0.00 0 0.00 3 0 4 3 90
> 0 43 14.60 119 1.70 0 0 0 0 100
> 0 43 14.13 155 2.14 0 0 0 1 99
> 0 43 4.93 107 0.51 3 0 4 0 93
> 0 43 5.01 106 0.52 2 0 3 2 94
> 0 42 4.17 102 0.42 2 0 2 2 93
> 0 43 3.51 92 0.32 0 0 1 1 98
> 0 43 3.42 99 0.33 0 0 1 1 98
> 0 43 4.87 105 0.50 1 0 1 0 98
> ^C
>
>
>
> Memory statistics by type Type Kern
> Type InUse MemUse HighUse Limit Requests Limit Limit Size(s)
> atkbddev 2 1K 1K102400K 2 0 0 32
> uc_devlist 0 0K 2K102400K 12 0 0 16,1K
> nexusdev 3 1K 1K102400K 3 0 0 16
> memdesc 1 4K 4K102400K 1 0 0 4K
> mbuf 1 96K 96K102400K 1 0 0 128K
> isadev 8 1K 1K102400K 8 0 0 64
> ZONE 14 2K 2K102400K 14 0 0 128
> VM pgdata 1 64K 64K102400K 1 0 0 64K
> devbuf 85 185K 185K102400K 141 0 0
> 16,32,64,128,256,512,1K,2K,4K,16K
> UFS mount 15 37K 37K102400K 15 0 0 512,2K,4K,8K
> UFS ihash 1 256K 256K102400K 1 0 0 256K
> FFS node 63819 15955K 15955K102400K 97174709 0 0 256
> dirrem 15 1K 18K102400K 30060178 0 0 32
> mkdir 0 0K 8K102400K 718 0 0 32
> diradd 0 0K 41K102400K 30360613 0 0 32
> freefile 0 0K 41K102400K 19194217 0 0 32
> freeblks 2 1K 163K102400K 19194170 0 0 128
> freefrag 0 0K 13K102400K 4389505 0 0 32
> allocindir 0 0K 1051K102400K 4645678 0 0 64
```

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```
> indirdep 1 1K 81K102400K 173299 0 0 32,16K
> allocdirect 2 1K 70K102400K 27923527 0 0 64
> bmsafemap 2 1K 2K102400K 20570860 0 0 32
> newblk 1 1K 1K102400K 32569206 0 0 32,256
> inodedep 18 259K 480K102400K 50515208 0 0 128,256K
> pagedep 15 33K 46K102400K 30234990 0 0 64,32K
> p1003.1b 1 1K 1K102400K 1 0 0 16
> syncache 1 8K 8K102400K 1 0 0 8K
> tseg_gent 0 0K 1K102400K 213633 0 0 32
> IpFw/IpAcct 5 1K 1K102400K 5 0 0 64
> in_multi 2 1K 1K102400K 2 0 0 32
> routetbl 68 10K 490K102400K 8649146 0 0
> 16,32,64,128,256
> faith 1 1K 1K102400K 1 0 0 256
> ether_multi 7 1K 1K102400K 7 0 0 16,32,64
> ifaddr 16 5K 5K102400K 16 0 0 32,64,256,2K
> BPF 5 1K 65K102400K 56 0 0 32,128,32K
> vnodes 17 4K 4K102400K 209 0 0
> 16,32,64,128,256
> mount 6 3K 3K102400K 8 0 0 16,128,512
> cluster_save buffer 0 0K 1K102400K 788517 0 0 32,64
> vfscache 66731 4683K 4990K102400K115446494 0 0 64,128,256,512K
> BIO buffer 6 12K 1198K102400K 2565 0 0 512,2K
> pcb 25 5K 18K102400K 47486348 0 0 16,32,64,2K
> soname 4 1K 12K102400K404821840 0 0 16,128
> lockf 2 1K 49K102400K759540302 0 0 64
> ptys 5 3K 3K102400K 5 0 0 512
> ttys 567 73K 73K102400K 2439 0 0 128,256
> atexit 1 1K 1K102400K 1 0 0 16
> zombie 0 0K 7K102400K 8677258 0 0 128
> shm 1 12K 12K102400K 1 0 0 16K
> proc-args 35 2K 69K102400K100222163 0 0
> 16,32,64,128,256
> kqueue 12 12K 786K102400K 43631105 0 0 256,1K
> sigio 1 1K 1K102400K 1 0 0 32
> file 91 6K 257K102400K318106792 0 0 64
> file desc 41 11K 203K102400K 8677309 0 0 256
> dev_t 715 90K 90K102400K 715 0 0 128
> timecounter 10 2K 2K102400K 10 0 0 128
> kld 4 1K 1K102400K 36 0 0 16,32,128
> sem 3 6K 6K102400K 3 0 0 1K,4K
> AR driver 1 1K 3K102400K 3 0 0 64,512,2K
> AD driver 2 2K 2K102400K218055758 0 0 64,1K
> msg 4 25K 25K102400K 4 0 0 512,4K,16K
> rman 50 3K 3K102400K 400 0 0 16,64
> ioctlops 0 0K 1K102400K 12 0 0 512,1K
> taskqueue 2 1K 1K102400K 2 0 0 32
> SWAP 2 1097K 1097K102400K 2 0 0 32,512K
> eventhandler 11 1K 1K102400K 11 0 0 32,64
> bus 424 39K 40K102400K 730 0 0
> 16,32,64,128,256,512,1K,2K,4K
```

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> sysctl 0 0K 1K102400K 10415 0 0 16,32
> uidinfo 5 2K 2K102400K 8114 0 0 32,1K
> cred 30 4K 100K102400K 2963736 0 0 128
> subproc 101 9K 79K102400K 17364833 0 0 32,64,256
> proc 2 8K 8K102400K 2 0 0 4K
> session 22 2K 48K102400K 2872588 0 0 64
> pgrp 26 1K 24K102400K 2873228 0 0 32
> ATA generic 2 1K 1K102400K 2 0 0 16,512
> temp 166 117K 161K102400K 294963 0 0
> 16,32,64,128,256,512,1K,4K,16K,128K

>
> *Memory Totals: In Use Free Requests*
> 23137K 3624K 2427718869

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>
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