Subject: Hyper-V + Ubuntu + Firebird

Posted by sg729 on Tue, 29 Apr 2025 11:00:20 GMT

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Ubuntu Server 24.04.2 LTS
LI-V3.0.12.33787 Firebird 3.0 SuperServer

50-60.

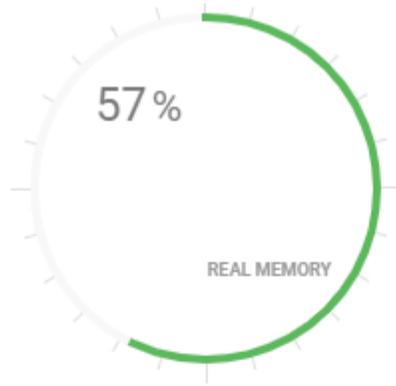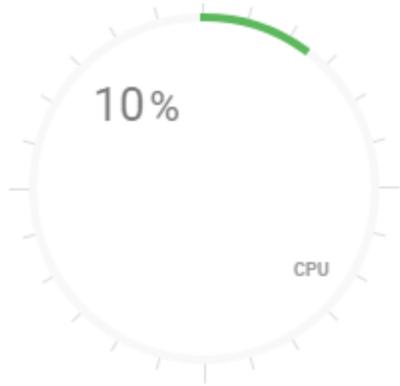| Limit	Soft Limit	Hard Limit	Units
Max open files	524288	524288	files

262144

firebird.log -

kernel.log -
2025-04-29T07:44:56.093002+03:00 ubtest kernel: workqueue: ata_sff_pio_task hogged CPU for >10000us 32 times, consider switching to WQ_UNBOUND

syslog -

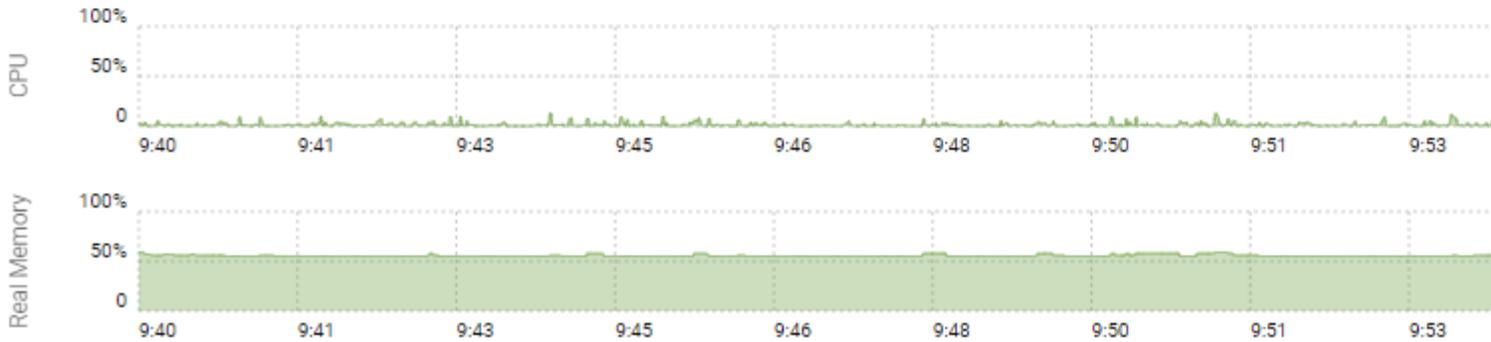https://tokmakov.msk.ru/blog/item/743)

10% CPU

57% REAL MEMORY

3% VIRTUAL MEMORY

System hostname	ubtest (127.0.1.1)	Operating system	Ubuntu Linu
Webmin version	2.303	Authentic theme version	23.03
Time on system	вторник, 29 апреля 2025 г., 10:00	Kernel and CPU	Linux 6.8.0-5
Processor information	Intel(R) Xeon(R) Silver 4110 CPU @ 2.10GHz, 8 cores	System uptime	12 hours, 46
Running processes	209	CPU load averages	0.16 (1 min)
Real memory	4.36 GiB used / 2.98 GiB cached / 7.73 GiB total	Virtual memory	85.35 MiB us
Local disk space	90.55 GiB used / 401.33 GiB free / 491.88 GiB total	Package updates	1 package

▾ Stats History

2) `2025-04-29_10-00-28.png`, downloaded 2020 times

```
  0[                                        0.0%]   4[||                                    2.0%]
  1[|||||||||                              19.0%]   5[||                                    1.3%]
  2[|                                       1.3%]   6[                                      0.0%]
  3[                                        0.0%]   7[|                                     0.6%]
Mem[||||||||||||||||||||||||||||||||||4.26G/7.73G] Tasks: 42, 66 thr, 167 kthr; 1 running
Swp[||                                 53.4M/4.00G] Load average: 0.20 0.20 0.18
                                                   Uptime: 12:48:33

  Main  I/O
   PID USER        PRI  NI  VIRT   RES   SHR S  CPU%▽MEM%   TIME+  Command
181641 firebird     20   0 43.8G 4034M 25308 S   0.7 51.0  0:12.82 /opt/firebird/bin/firebird
   914 firebird     20   0 11168  1820  1792 S   0.0  0.0  0:00.00 /opt/firebird/bin/fbguard -d
   925 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0 19:31.76 /opt/firebird/bin/firebird
   930 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.00 /opt/firebird/bin/firebird
   941 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.88 /opt/firebird/bin/firebird
159367 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.00 /opt/firebird/bin/firebird
159603 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.04 /opt/firebird/bin/firebird
159604 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:05.17 /opt/firebird/bin/firebird
159610 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.04 /opt/firebird/bin/firebird
159611 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.37 /opt/firebird/bin/firebird
160340 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.05 /opt/firebird/bin/firebird
160341 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.91 /opt/firebird/bin/firebird
160528 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.05 /opt/firebird/bin/firebird
160529 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.93 /opt/firebird/bin/firebird
161161 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.04 /opt/firebird/bin/firebird
161162 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.40 /opt/firebird/bin/firebird
161512 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.04 /opt/firebird/bin/firebird
161513 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:04.30 /opt/firebird/bin/firebird
161551 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.04 /opt/firebird/bin/firebird
161552 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:01.37 /opt/firebird/bin/firebird
161840 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.04 /opt/firebird/bin/firebird
161841 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.47 /opt/firebird/bin/firebird
161842 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.04 /opt/firebird/bin/firebird
161843 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.12 /opt/firebird/bin/firebird
163849 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.04 /opt/firebird/bin/firebird
163850 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:01.25 /opt/firebird/bin/firebird
166338 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.03 /opt/firebird/bin/firebird
166339 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:01.14 /opt/firebird/bin/firebird
167072 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.03 /opt/firebird/bin/firebird
167073 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.32 /opt/firebird/bin/firebird
169499 firebird     20   0 43.8G 4034M 25308 S   0.0 51.0  0:00.02 /opt/firebird/bin/firebird
```
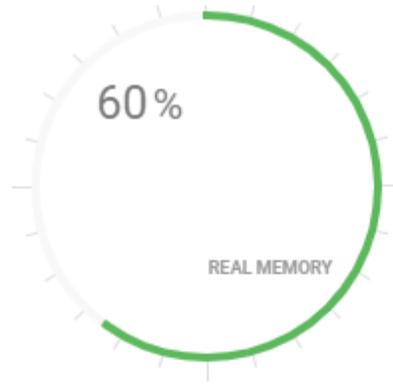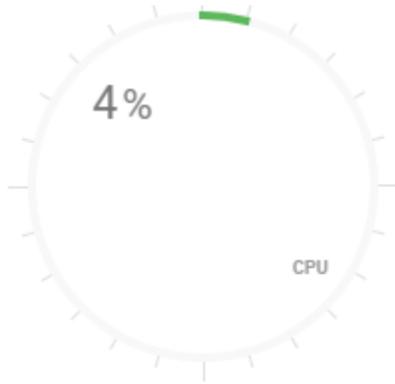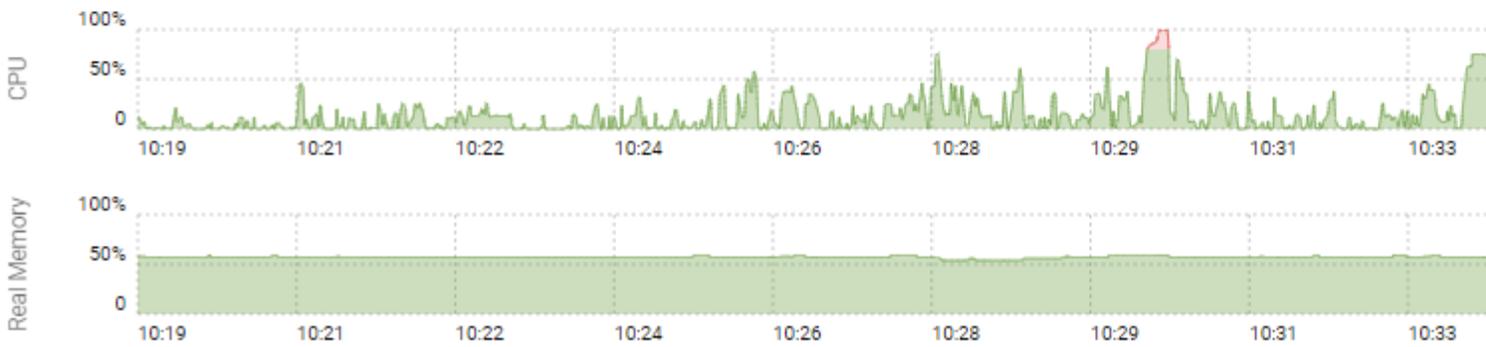
3) 2025-04-29_10-40-17.png, downloaded 2036 times

4%
CPU

60%
REAL MEMORY

3%
VIRTUAL MEMORY

System hostname	ubtest (127.0.1.1)	**Operating system**	Ubuntu Linu
Webmin version	2.303 ▣	**Authentic theme version**	23.03 ✿
Time on system	вторник, 29 апреля 2025 г., 10:40	**Kernel and CPU**	Linux 6.8.0-
Processor information	Intel(R) Xeon(R) Silver 4110 CPU @ 2.10GHz, 8 cores	**System uptime**	13 hours, 21
Running processes	215	**CPU load averages**	0.58 (1 min)
Real memory	4.6 GiB used / 2.97 GiB cached / 7.73 GiB total	**Virtual memory**	85.35 MiB u
Local disk space	90.56 GiB used / 401.32 GiB free / 491.88 GiB total	**Package updates**	❶ packag

▾ Stats History

4) `2025-04-29_10-40-26.png`, downloaded 2015 times

```
  0[                                              0.0%]   4[|                                            0.6%]
  1[                                              0.0%]   5[                                             0.0%]
  2[|                                             0.6%]   6[|                                            0.6%]
  3[||                                            1.9%]   7[|                                            2.0%]
Mem[|||||||||||||||||||||||||||||||||4.51G/7.73G] Tasks: 46, 69 thr, 169 kthr; 2 running
Swp[||                                 53.4M/4.00G] Load average: 0.52 1.91 1.48
                                                  Uptime: 13:28:30
```

Main	I/O

PID	USER	PRI	NI	VIRT	RES	SHR	S	CPU%	MEM%	TIME+	Command
941	firebird	20	0	46.7G	4275M	25828	S	0.6	54.0	0:01.00	/opt/firebird/bin/firebird
914	firebird	20	0	11168	1820	1792	S	0.0	0.0	0:00.00	/opt/firebird/bin/fbguard -d
925	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	19:37.59	/opt/firebird/bin/firebird
930	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.00	/opt/firebird/bin/firebird
159367	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.00	/opt/firebird/bin/firebird
159603	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.06	/opt/firebird/bin/firebird
159604	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:05.22	/opt/firebird/bin/firebird
159610	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.05	/opt/firebird/bin/firebird
159611	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.48	/opt/firebird/bin/firebird
160340	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.06	/opt/firebird/bin/firebird
160341	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:01.28	/opt/firebird/bin/firebird
160528	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.07	/opt/firebird/bin/firebird
160529	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:01.20	/opt/firebird/bin/firebird
161161	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.06	/opt/firebird/bin/firebird
161162	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.66	/opt/firebird/bin/firebird
161512	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.06	/opt/firebird/bin/firebird
161513	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:06.03	/opt/firebird/bin/firebird
161551	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.06	/opt/firebird/bin/firebird
161552	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:01.79	/opt/firebird/bin/firebird
161840	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.06	/opt/firebird/bin/firebird
161841	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.48	/opt/firebird/bin/firebird
163849	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.06	/opt/firebird/bin/firebird
163850	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:01.53	/opt/firebird/bin/firebird
166338	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.04	/opt/firebird/bin/firebird
166339	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:01.92	/opt/firebird/bin/firebird
167072	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.05	/opt/firebird/bin/firebird
167073	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.39	/opt/firebird/bin/firebird
169499	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.03	/opt/firebird/bin/firebird
169500	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.95	/opt/firebird/bin/firebird
182739	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.01	/opt/firebird/bin/firebird
182740	firebird	20	0	46.7G	4275M	25828	S	0.0	54.0	0:00.01	/opt/firebird/bin/firebird

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by SD on Tue, 29 Apr 2025 11:19:33 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird

Posted by sg729 on Tue, 29 Apr 2025 12:37:56 GMT
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https://habr.com/ru/companies/selectel/articles/267833/

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by m7m on Tue, 29 Apr 2025 16:54:41 GMT
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https://habr.com/ru/companies/selectel/articles/267833/
 Trace and Audit Services

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by sg729 on Wed, 30 Apr 2025 06:57:59 GMT
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firebird.conf
AuditTraceConfigFile = fbtrace.conf

fbtrace.conf
database = 127.0.0.1:D:\FDB\TEST.FDB
{
 enabled = true
 log_filename = D:\fbtrace.log
 max_log_size = 1
 log_statement_finish   true
 log_procedure_finish   true
 log_trigger_finish   true
 print_plan   true
 print_perf   true
 time_threshold   0
}

C:\Program Files\Firebird\Firebird_3_0>fbsvcmgr service_mgr action_trace_start trc_name "My trace" trc_cfg fbtrace.conf
Trace session ID 2 started

C:\Program Files\Firebird\Firebird_3_0>fbsvcmgr service_mgr action_trace_list
Session ID: 2

name: My trace
user: USER
date: 2025-04-30 09:31:38
flags: active, trace

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by basid on Wed, 30 Apr 2025 07:37:08 GMT
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```
- 09:58:24 up 135 days, 18:53,  2 users,  load average: 10,43, 9,39, 9,29
Tasks: 500 total,   1 running, 499 sleeping,   0 stopped,   0 zombie
%Cpu(s): 20,8 us,  2,6 sy,  0,0 ni, 75,4 id,  0,6 wa,  0,4 hi,  0,2 si,  0,0 st
GiB Mem :   251,3 total,    2,4 free,   179,9 used,    69,0 buff/cache
GiB Swap:   68,0 total,   67,6 free,    0,4 used.    69,1 avail Mem

  PID USER     PR  NI   VIRT   RES    SHR S  %CPU  %MEM
   TIME+ COMMAND
 710587 firebird  20   0  190,9g 177,5g 328,0m S 819,2  70,6   5689:34 firebird3.
```

```
grep PRETTY_NAME /etc/os-release|cut -d\" -f2;\
lscpu|grep -v "^\(F\|Vu\)";\
free -h;\
```

```
Architecture:          x86_64
CPU(s):                40
Model name:            Intel(R) Xeon(R) Silver 4114 CPU @
2.20GHz
```

```
Thread(s) per core:          2
Core(s) per socket:          10
Socket(s):                   2
CPU max MHz:                  3000,0000
CPU min MHz:                  800,0000
Virtualization:              VT-x


          total    used    free    shared
 buff/cache   available
Mem:      251Gi    182Gi    2,0Gi    304Mi
    67Gi     66Gi
Swap:      67Gi    366Mi     67Gi


NAME          MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
sdb           8:16   0 893,8G  0 disk




sdc           8:32   0   14T  0 disk




avg-cpu: %user   %nice %system %iowait  %steal   %idle
      19,5%    0,0%    2,6%    0,4%    0,0%   77,5%
 Device   rB/s r_await   wB/s  w_await  %util
  sdb   0,9k    0,00 132,8k    0,30   0,1%
  sdc 207,4M    4,88  8,0M    0,22  46,3%5. Use sql-trace,
```

P.S.

P.P.S.

read-intensive.

```
# into log file name matching database name - test.log, azk2.log and
# rulez.log appropriately
#
#database = %[\\/](test|azk2|rulez).fdb
#{
# enabled = true
# log_filename = \1.log
#}

{
 enabled = true
 log_filename = F:\FBTRACE\fbtrace.log
 max_log_size = 1
```

```
 log_statement_finish   true
 log_procedure_finish   true
 log_trigger_finish     true
 print_plan             true
 print_perf             true
 time_threshold         0
}
```

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by sg729 on Thu, 01 May 2025 12:12:17 GMT
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basid,

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by SD on Thu, 01 May 2025 21:37:07 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by basid on Fri, 02 May 2025 06:12:47 GMT
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--
P.S.

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by sg729 on Fri, 02 May 2025 17:47:39 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by sg729 on Fri, 02 May 2025 18:00:05 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by hvlad on Fri, 02 May 2025 18:32:35 GMT
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```
{
 enabled = true
 log_filename = F:\FBTRACE\fbtrace.log
 max_log_size = 1
```

...
}

PS max_log_size = 1

```
{
 enabled = true
 log_filename = F:\FBTRACE\fbtrace.log
...
}
```

fbtrace.conf
For log file name Sed syntax for substitutions is supported.
I.e. \0 - whole matched string, \1 ... \9 - parenthesis subexpressions.
\\ is backslash.
#
String values should be enclosed into single quotes if contains spaces
embedded, for example:
log_filename 'C:\\Documents and Settings\\Firebird\\My Documents\\trace.log'

---

fbtrace.conf

```
{
 enabled = true
 log_filename = 'F:\\FBTRACE\\fbtrace.log'
 max_log_size = 10
 log_statement_finish   true
 log_procedure_finish   true
 log_trigger_finish     true
 print_plan             true
 print_perf             true
 time_threshold         0
}
```

firebird.conf

Session ID: 2
 name: My trace
 user: USER
 date: 2025-05-06 09:10:45
 flags: active, trace

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by SD on Tue, 06 May 2025 11:22:24 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by basid on Tue, 06 May 2025 11:29:47 GMT
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Firebird 2.5 fbtrace.conf:<database>

```
  enabled false
  max_log_size 0
  log_statement_finish false
</database>
Firebird 3.0 fbtrace.conf:database
{
  #enabled = false
  #max_log_size = 0
  #log_statement_finish = false
```

P.S.

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by hvlad on Tue, 06 May 2025 14:53:00 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by sg729 on Wed, 07 May 2025 07:31:26 GMT
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hvlad, SD, basid

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by sg729 on Tue, 13 May 2025 09:39:01 GMT
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File Attachments

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by basid on Tue, 13 May 2025 12:03:53 GMT
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```
 %nice %system %iowait  %steal   %idle
      0,7%   0,0%   0,5%   8,0%   0,0%  90,9%
   r/s    rMB/s   rrqm/s  %rrqm r_await rareq-sz Device
  1,90    17,6k    0,00   0,0% 156,63     9,3k sda
   w/s    wMB/s   wrqm/s  %wrqm w_await wareq-sz Device
 68,30   533,6k    3,00   4,2%  17,22     7,8k sda
   d/s    dMB/s   drqm/s  %drqm d_await dareq-sz Device
  0,00     0,0k    0,00   0,0%   0,00     0,0k sda
   f/s f_await  aqu-sz  %util Device
```

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by sg729 on Tue, 13 May 2025 12:19:49 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by basid on Tue, 13 May 2025 17:39:53 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by sg729 on Wed, 14 May 2025 05:55:31 GMT
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basid

13.05.2025 10:45:27
avg-cpu: %user %nice %system %iowait %steal   %idle
      0,1%   0,0%   0,0% 52,2%   0,0% 47,7%

   r/s   rMB/s   rrqm/s %rrqm r_await rareq-sz Device
  0,00   0,0k   0,00   0,0%   0,00   0,0k sda

   w/s   wMB/s   wrqm/s %wrqm w_await wareq-sz Device
 10,10   92,4k   3,20 24,1% 6127,21   9,1k sda

   d/s   dMB/s   drqm/s %drqm d_await dareq-sz Device
  0,00   0,0k   0,00   0,0%   0,00   0,0k sda

   f/s f_await aqu-sz %util Device
  0,60   3,83   61,89 97,9% sda

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by basid on Wed, 14 May 2025 08:28:04 GMT
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%system %iowait %steal   %idle
      0,1%   0,0%   0,0% 52,2%   0,0% 47,7%
 Device   rB/s r_await   wB/s w_await f_await %util

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by SD on Wed, 14 May 2025 11:34:38 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by sg729 on Wed, 14 May 2025 11:57:38 GMT
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/w3/issue/78/Write_Barriers.pdf
is no longer available on this server and there is no forwarding address. Please remove all
references to this resource.

Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by basid on Wed, 14 May 2025 12:13:44 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by sg729 on Wed, 14 May 2025 18:52:22 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by basid on Thu, 15 May 2025 05:23:24 GMT
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Subject: Re: Hyper-V + Ubuntu + Firebird
Posted by inoremap on Thu, 15 May 2025 07:34:29 GMT
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https://web.archive.org/web/20140331184757/https://www.linux
-magazine.com/w3/issue/78/Write_Barriers.pdf

Subject: Re: Hyper-V + Ubuntu + Firebird