

プログロール - サポート #54

システムダウン対応

2014/03/23 16:16 - 山本 義治

ステータス:	新規	開始日:	2014/03/23
優先度:	通常	期日:	
担当者:		進捗 %:	0%
カテゴリ:		予定工数:	0.00時間
対象バージョン:		作業時間の記録:	0.00時間

説明

2014/3/23 4時頃からサーバアクセスできない症状発生。
http、sshともにアクセス不可。

3/23 13時頃

sshアクセスできるようになったが、garoll.netにアクセスするとinternal server error。

syslogを見ると

Out of memory: Kill process 11032 (httpd) score 6 or sacrifice child

[root@localhost webroot]# sar

00時00分01秒	CPU	%user	%nice	%system	%iowait	%steal	%idle
03時30分03秒	all	4.40	0.03	0.93	23.41	0.24	71.00
03時40分03秒	all	6.04	0.04	1.01	16.00	0.20	76.71
03時50分02秒	all	6.77	0.04	1.00	19.81	0.22	72.16
04時00分03秒	all	5.64	0.04	1.02	20.47	0.21	72.63
04時10分03秒	all	4.42	0.04	1.20	42.31	0.38	51.64
04時20分04秒	all	5.47	0.03	1.14	47.69	0.38	45.29
04時30分09秒	all	6.38	0.03	1.08	64.57	0.27	27.67
04時41分30秒	all	4.89	0.02	0.93	84.83	0.22	9.11
04時50分18秒	all	0.77	0.05	0.47	98.63	0.09	0.00
05時00分26秒	all	0.41	0.00	0.42	99.07	0.10	0.00
07時50分52秒	all	0.08	0.00	0.26	99.59	0.07	0.00
08時04分57秒	all	0.02	0.00	0.26	99.66	0.06	0.00
08時12分27秒	all	0.02	0.00	0.46	99.44	0.07	0.00
08時58分23秒	all	0.04	0.00	0.53	99.37	0.06	0.00
09時05分27秒	all	0.23	0.00	0.94	98.67	0.16	0.00
09時10分16秒	all	0.58	0.00	1.13	97.95	0.35	0.00
11時43分00秒	all	0.18	0.00	0.84	98.86	0.11	0.00
12時49分07秒	all	0.36	0.00	27.37	72.06	0.20	0.00
13時02分06秒	all	0.52	0.00	0.26	99.14	0.07	0.00
13時10分48秒	all	0.16	0.00	0.29	99.44	0.11	0.00
13時31分23秒	all	0.58	0.00	0.73	98.52	0.16	0.00
13時40分01秒	all	2.55	0.08	1.63	81.43	0.33	13.97
13時50分01秒	all	2.79	0.04	0.22	1.07	0.06	95.82
14時00分01秒	all	1.33	0.04	0.16	0.51	0.03	97.94

4:30あたりからiowaitが急激にあがってる

cakephpのdebugレベルを上げてアクセスすると

Host 'hostname' is blocked because of many connection errors.

Unblock with 'mysqladmin flush-hosts'

DBサーバにはいってmysqladmin flush-hosts実行したらアクセスできるようになった。

原因調査

apacheのアクセスログを見ると

AhrefsBotとかいう怪しいbotからアクセスが頻発しているので拒否。

```
[.htaccess]
```

```
order allow,deny
```

```
allow from all
```

```
deny from 5.10.83.
```

履歴

#1 - 2014/04/11 17:11 - 山本 義治

参考

<http://yotuba10.com/trouble-20140214/>

```
[root@www14012uf admin]# ps aux | grep [h]ttpd | grep [a]pache | awk 'BEGIN{x=0}{x+=$6}END{ print x/NR }'
```

```
29061.3
```

Apacheの最大子プロセス数 : P =

Apacheに割り当て可能なメモリ量 / Apacheの子プロセスあたりの平均メモリ使用量

$P = 2,000,000 / 29061.3 = 68.82 = 65$

```
<IfModule prefork.c>
```

```
StartServers      P × 5/256
```

```
MinSpareServers  P × 5/256
```

```
MaxSpareServers  P × 10/256
```

```
ServerLimit      P
```

```
MaxClients       P
```

```
MaxRequestsPerChild  1000
```

```
</IfModule>
```

変更前

```
KeepAlive Off
```

```
StartServers  8
```

```
MinSpareServers  5
```

```
MaxSpareServers  20
```

```
ServerLimit  256
```

```
MaxClients  256
```

```
MaxRequestsPerChild  4000
```

変更後

```
KeepAlive Off
```

```
StartServers  8
```

```
MinSpareServers  5
```

```
MaxSpareServers  10
```

```
ServerLimit  128
```

```
MaxClients  65
```

```
MaxRequestsPerChild  1000
```

变更前

```
$ ab -c 100 -n 1000 http://garoll.net/
```

This is ApacheBench, Version 2.3 <\$Revision: 655654 \$>

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Benchmarking garoll.net (be patient)

Completed 100 requests

Completed 200 requests

Completed 300 requests

Completed 400 requests

Completed 500 requests

Completed 600 requests

Completed 700 requests

Completed 800 requests

Completed 900 requests

Completed 1000 requests

Finished 1000 requests

Server Software: Apache/2.2.15

Server Hostname: garoll.net

Server Port: 80

Document Path: /

Document Length: 31462 bytes

Concurrency Level: 100

Time taken for tests: 128.944 seconds

Complete requests: 1000

Failed requests: 923

(Connect: 0, Receive: 0, Length: 923, Exceptions: 0)

Write errors: 0

Total transferred: 31787254 bytes

HTML transferred: 31591669 bytes

Requests per second: 7.76 [# /sec] (mean)

Time per request: 12894.352 [ms] (mean)

Time per request: 128.944 [ms] (mean, across all concurrent requests)

Transfer rate: 240.74 [Kbytes/sec] received

Connection Times (ms)

min mean[+/-sd] median max

Connect: 23 760 1291.4 47 7705

Processing: 2376 11473 3405.4 12033 20124

Waiting: 2258 11171 3343.6 11665 19983

Total: 2409 12232 3729.1 12759 21426

Percentage of the requests served within a certain time (ms)

50% 12759

66% 13931

75% 14742

80% 15115

90% 16101

95% 17953

98% 19658
99% 20347
100% 21426 (longest request)

変更後

```
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```

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Completed 700 requests

Completed 800 requests

Completed 900 requests

Completed 1000 requests

Finished 1000 requests

Server Software: Apache/2.2.15

Server Hostname: garoll.net

Server Port: 80

Document Path: /

Document Length: 31379 bytes

Concurrency Level: 100

Time taken for tests: 120.705 seconds

Complete requests: 1000

Failed requests: 39

(Connect: 0, Receive: 0, Length: 39, Exceptions: 0)

Write errors: 0

Total transferred: 31627354 bytes

HTML transferred: 31431964 bytes

Requests per second: 8.28 [#/sec] (mean)

Time per request: 12070.518 [ms] (mean)

Time per request: 120.705 [ms] (mean, across all concurrent requests)

Transfer rate: 255.88 [Kbytes/sec] received

Connection Times (ms)

min mean[+/-sd] median max

Connect: 22 1855 5723.2 60 69998

Processing: 2118 9770 2521.0 10069 17779

Waiting: 2069 9622 2497.0 9882 17542

Total: 2178 11625 6185.0 11148 79601

Percentage of the requests served within a certain time (ms)

50% 11148

66% 12087

75% 12581
80% 12987
90% 15205
95% 16575
98% 27311
99% 44344
100% 79601 (longest request)