

SDK - 機能追加 #535

負荷テスト

2015/10/27 11:20 - 山本 義治

ステータス:	新規	開始日:	2015/10/27
優先度:	通常	期日:	
担当者:		進捗 %:	0%
カテゴリ:	テスト	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			

履歴

#1 - 2015/10/27 11:55 - 山本 義治

API

<本番サーバ>

```
[root@ad1 admin]# ulimit -a
core file size      (blocks, -c) 0
data seg size       (kbytes, -d) unlimited
scheduling priority (-e) 0
file size            (blocks, -f) unlimited
pending signals      (-i) 15213
max locked memory    (kbytes, -l) 64
max memory size      (kbytes, -m) unlimited
open files           (-n) 1024
pipe size            (512 bytes, -p) 8
POSIX message queues (bytes, -q) 819200
real-time priority   (-r) 0
stack size           (kbytes, -s) 10240
cpu time             (seconds, -t) unlimited
max user processes   (-u) 15213
virtual memory        (kbytes, -v) unlimited
file locks           (-x) unlimited
```

```
[nginx.conf]
worker_processes 1;
worker_connections 1024;
```

クリックログ、インストールログともになし

```
社内→API
$ ab -c 100 -n 1000 "https://ad.i-joji.com/event/set?app_id=halooios&app_key=tJ7gLMi5JtzsFbwj&user_id=test&event_type=install"
Requests per second: 104.99 [#/sec] (mean)
```

```
WEB→API
$ ab -c 100 -n 1000 "https://ad.i-joji.com/event/set?app_id=halooios&app_key=tJ7gLMi5JtzsFbwj&user_id=test&event_type=install"
Requests per second: 135.73 [#/sec] (mean)
```

<テストサーバ>

```
[root@www14012uf admin]# ulimit -a
core file size      (blocks, -c) 0
data seg size       (kbytes, -d) unlimited
scheduling priority (-e) 0
file size            (blocks, -f) unlimited
pending signals      (-i) 14868
max locked memory    (kbytes, -l) 64
max memory size      (kbytes, -m) unlimited
open files           (-n) 1024
pipe size            (512 bytes, -p) 8
POSIX message queues (bytes, -q) 819200
real-time priority   (-r) 0
stack size           (kbytes, -s) 10240
cpu time             (seconds, -t) unlimited
max user processes   (-u) 1024
```

virtual memory (kbytes, -v) unlimited
file locks (-x) unlimited

社内→API

```
$ ab -c 100 -n 1000 "http://49.212.176.26:9000/event/set?app_id=halooios&app_key=ySQkb5LwmbnO7qJR&event_type=install&user_id=test"
Requests per second: 347.14 [#/sec] (mean)
```

WEB→API

```
$ ab -c 100 -n 1000 "http://49.212.176.26:9000/event/set?app_id=halooios&app_key=ySQkb5LwmbnO7qJR&event_type=install&user_id=test"
Requests per second: 1055.24 [#/sec] (mean)
```

httpとhttps比較

IPベース

```
[root@web1 admin]# ab -c 100 -n 1000 http://153.126.136.128:9000/
Requests per second: 2472.28 [#/sec] (mean)
```

http

```
[root@web1 admin]# ab -c 100 -n 1000 http://ad.i-joji.com:9000/
Requests per second: 2432.54 [#/sec] (mean)
```

https

```
[root@web1 admin]# ab -c 100 -n 1000 https://ad.i-joji.com/
Requests per second: 139.95 [#/sec] (mean)
```

☆SSL通信がボトルネックになっている

[nginx.conf]

```
worker_processes 1;
worker_connections 1024;
ssl_session_cache shared:SSL:120m;
ssl_session_timeout 5m;
```

```
[root@web1 admin]# $ ab -c 100 -n 1000
```

```
"https://ad.i-joji.com/event/set?app_id=halooios&app_key=tJ7gLMi5JtzsFbwj&user_id=test&event_type=install"
Requests per second: 152.16 [#/sec] (mean)
```

あまり変わらない

[nginx.conf]

```
worker_processes auto;
worker_connections 1024;
ssl_session_cache shared:SSL:120m;
ssl_session_timeout 5m;
```

```
[root@web1 admin]# $ ab -c 100 -n 1000
```

```
"https://ad.i-joji.com/event/set?app_id=halooios&app_key=tJ7gLMi5JtzsFbwj&user_id=test&event_type=install"
Requests per second: 296.97 [#/sec] (mean)
```

2倍近く性能アップ

[nginx.conf]

```
worker_processes auto;
worker_rlimit_nofile 100000;
error_log logs/error.log debug;
```

events

```
{
    worker_connections 2048;
    #multi_accept on;
    use epoll;
}
```

http

```
{
    log_format xgeneration '$remote_addr - $remote_user [$time_local] '
        '"$request" $status $body_bytes_sent '
        '"$http_referer" "$http_user_agent" '
        '"$x_app_params";
```

server

```
{
    listen 443 ssl;
    server_name ad.i-joji.com
```

```

charset utf-8;

ssl_certificate /usr/local/openresty/nginx/conf/ssl/ad.i-joji.com.crt;
ssl_certificate_key /usr/local/openresty/nginx/conf/ssl/ad.i-joji.com.key;
ssl_session_cache shared:SSL:120m;
ssl_session_timeout 5m;

sendfile on;
tcp_nopush on;
#tcp_nodelay on;
open_file_cache max=100 inactive=20s;
keepalive_timeout 65;
server_tokens off;
access_log /usr/local/openresty/nginx/logs/access.log xgeneration;

set $x_app_params '-';
set $template_root /usr/local/openresty/nginx/html/templates;

location /
{
    default_type text/html;
    content_by_lua '
        ngx.say("<p>x-generation-api</p>")
    ';
}
location /favicon {
    access_log off;
}
location /create_init
{
    content_by_lua_file lua/create_init.lua;
}
location /app/create
{
    content_by_lua_file lua/app_create.lua;
}
location /app/update
{
    content_by_lua_file lua/app_update.lua;
}
location /app/delete
{
    content_by_lua_file lua/app_delete.lua;
}
location /campaign/create
{
    content_by_lua_file lua/campaign_create.lua;
}
location /campaign/update
{
    content_by_lua_file lua/campaign_update.lua;
}
location /campaign/delete
{
    content_by_lua_file lua/campaign_delete.lua;
}
location /network/create
{
    content_by_lua_file lua/network_create.lua;
}
location /network/update
{
    content_by_lua_file lua/network_update.lua;
}
location /network/delete
{
    content_by_lua_file lua/network_delete.lua;
}
location /click
{
    content_by_lua_file lua/click.lua;
}
location /install
{
    root html;
}

```

```
    content_by_lua_file lua/install.lua;
}
location /event/set
{
    content_by_lua_file lua/event_set.lua;
}
}
```