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<http://www.keepalived.org>

<https://gist.github.com/nginx-gists/>

<https://nginxbeautifier.com/>

[nginx certificate authentication](#)

## nginx

[.htaccess converter](#)

## sample config

```
events {
    use epoll;
    multi_accept on;
}

    sendfile    on;
    tcp_nopush  on;
    tcp_nodelay on;
    keepalive_timeout 30;
    gzip on;
    gzip_min_length 1100;
    gzip_comp_level 6;
    gzip_types text/css application/javascript;
```

## Check memory consumption for PHP-FPM

Single process

```
ps --no-headers -o "rss,cmd" -C php-fpm | awk '{ sum+=$1 } END { printf ("%d%s\n", sum/NR/1024,"M") }'
```

## Performance no rules

```
$ wrk -c 100 -t 4 -d 30s http://127.0.0.1:8777/bar
Running 30s test @ http://127.0.0.1:8777/bar
 4 threads and 100 connections
  Thread Stats   Avg      Stdev     Max   +/-  Stdev
  Latency       2.09ms   2.56ms  42.43ms  88.26%
  Req/Sec      16.44k    3.38k   36.10k   71.83%
1966522 requests in 30.09s, 474.39MB read
Requests/sec: 65349.76
Transfer/sec: 15.76MB
```

## Performance filter IP 1 rule

```
$ wrk -c 100 -t 4 -d 30s http://127.0.0.1:8777/bar
```

```
Running 30s test @ http://127.0.0.1:8777/bar
4 threads and 100 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 2.28ms 3.27ms 84.99ms 90.26%
  Req/Sec 15.66k 3.33k 31.17k 71.06%
1872796 requests in 30.09s, 451.78MB read
Requests/sec: 62246.52
Transfer/sec: 15.02MB
```

## Performance filter IP 5000 rules

```
$ wrk -c 100 -t 4 -d 30s http://127.0.0.1:8777/bar
Running 30s test @ http://127.0.0.1:8777/bar
4 threads and 100 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 2.60ms 3.84ms 113.95ms 90.80%
  Req/Sec 13.69k 3.01k 30.83k 72.70%
1636391 requests in 30.10s, 394.75MB read
Requests/sec: 54372.39
Transfer/sec: 13.12MB
```

## Performance filter IP 50000 rules

```
$ wrk -c 100 -t 4 -d 30s http://127.0.0.1:8777/bar
Running 30s test @ http://127.0.0.1:8777/bar
4 threads and 100 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 8.01ms 10.74ms 139.75ms 85.36%
  Req/Sec 6.67k 1.19k 13.59k 75.92%
797378 requests in 30.03s, 192.35MB read
Requests/sec: 26551.53
Transfer/sec: 6.41MB
```

```
http {
  server {
    listen 443;
    ssl on;
    ssl_certificate /etc/nginx/easy-rsa/keys/localhost.crt;
    ssl_certificate_key /etc/nginx/easy-rsa/keys/localhost.key;
    ssl_client_certificate /etc/nginx/easy-rsa/keys/ca.crt;
    ssl_verify_client on;
    ssl_verify_depth 2;
    root /var/www/;

    location / {
      if ($ssl_client_verify != SUCCESS) { return 403; }
      autoindex on; # directory listing
    }
  }
}
```

## NGINX cache

```
Set keepalive at upstream
```

```
location / {
proxy_http_version 1.1;
proxy_cache_background_update on;
proxy_cache_use_stale error timeout http_500; // use old when error
proxy_cache_min_uses 5;
}
```

## Bypass

```
location / {
proxy_cache cache;
proxy_cache_bypass $cookie_nocache $arg_nocache $http_nocache;
}
```

```
http{
proxy_cache_path /tmp/nginx/cache levels=1:2 keys_zone=cache:10m max_size=100g inactive=7d
use_temp_path=off;
}
server{
location ^~ /images {
proxy_cache cache;
proxy_cache_valid 200 301 302 12h; // any 1s;
proxy_ignore_headers Cache-Control;
proxy_pass http://images.com;
}
```

## reconfigure nginx

```
/usr/local/nginx/sbin/nginx -t && /usr/local/nginx/sbin/nginx -s reload
```

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