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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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