Tuning nginx

nginx Tuning

Nach Änderungen nginx neu laden (nginx -t && nginx -s reload):

This number should be, at maximum, the number of CPU cores on your system. worker_processes 16; # Number of file descriptors used for Nginx. Should also be set in /etc/security/limits.conf worker_rlimit_nofile 200000; # only log critical errors error_log /var/log/nginx/error.log crit # Determines how many clients will be served by each worker process. # (Max clients = worker_connections * worker_processes) # "Max clients" is also limited by the number of socket connections available on the system (~64 worker_connections 4000; # essential for linux, optmized to serve many clients with each thread use epoll; # Accept as many connections as possible, after nginx gets notification about a new connection. # May flood worker_connections, if that option is set too low. multi accept on; # Caches information about frequently accessed files. Try to experiment with those values. open_file_cache max=200000 inactive=20s; open_file_cache_valid 30s; open_file_cache_min_uses 2; open_file_cache_errors on; # Disable access logs access_log off; # Sendfile copies data between one FD and other from within the kernel. # More efficient than read() + write(), since the requires transferring data to and from the use sendfile on; # Tcp_nopush causes nginx to attempt to send its HTTP response head in one packet, # instead of using partial frames. This is useful for prepending headers before calling sendfile # or for throughput optimization. tcp_nopush on; # don't buffer data-sends (disable Nagle algorithm). Good for sending frequent small bursts of d tcp nodelay on; # Timeout for keep-alive connections. Server will close connections after this time. keepalive_timeout 30; # Number of requests a client can make over the keep-alive connection. This is set high for test keepalive_requests 100000; # allow the server to close the connection after a client stops responding. Frees up socket-asso reset_timedout_connection on; # send the client a "request timed out" if the body is not loaded by this time. Default 60. client_body_timeout 10; # If the client stops reading data, free up the stale client connection after this much time. De send_timeout 2; # Compression. Reduces the amount of data that needs to be transferred over the network gzip on; gzip_min_length 10240; gzip_proxied expired no-cache no-store private auth; gzip_types text/plain text/css text/xml text/javascript application/x-javascript application/xml gzip_disable "MSIE [1-6]\.";

TCP-Stack Tuning

Nach Änderungen "sysctl –system" ausführen:

Increase system IP port limits to allow for more connections net.ipv4.ip_local_port_range = 2000 65000 net.ipv4.tcp_window_scaling = 1 # number of packets to keep in backlog before the kernel starts dropping them net.ipv4.tcp_max_syn_backlog = 3240000 # increase socket listen backlog net.core.somaxconn = 3240000 net.ipv4.tcp_max_tw_buckets = 1440000 # Increase TCP buffer sizes net.core.rmem_default = 8388608 net.core.rmem_max = 16777216 net.core.wmem_max = 16777216 net.ipv4.tcp_rmem = 4096 87380 16777216 net.ipv4.tcp_wmem = 4096 65536 16777216 net.core.default_qdisc=fq net.ipv4.tcp_congestion_control=bbr

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