

Example Nginx config

Here is an examplenginx.conf for Loadbalancing on Nginx:

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Copy userwww-data; worker_processes auto;#Relevant to handle as many connections as the server config could, is correlated to number of cores in the CPU

https://nginx.org/en/docs/nginx_core_module.html#worker_processes

error_log/var/log/nginx/error.logwarn; pid/var/run/nginx.pid;

events{ worker_connections1024;#Relevant to handle as many connections as the server config could

clients = worker_processes * worker_connections

}#https://nginx.org/en/docs/nginx_core_module.html#worker_connections

http{

large_client_header_buffers4128k; server_names_hash_bucket_size128;

maprequest_uri short_uri { "~^(.{0,50})"1; defaultrequest_uri; }

mapremote_addr anonymized_addr { ~(?P\d+\.\d+)\.\d+.ip.0.0; ~(?P[^:]+\:[^:]+): ip::;

IP addresses to not anonymize (such as your server)

127.0.0.1remote_addr; ::1 remote_addr;

w.x.y.z remote_addr;

a::c:d::e:f remote_addr;

default0.0.0.0; }

log_formatcombined_log'anonymized_addr - remote_user [time_local] ' "short_uri" status body_bytes_sent ' "'http_referer" "http_user_agent"';

access_log/var/log/nginx/access.log combined_log;

limit_req_zonebinary_remote_addr zone=mylimit:1M rate=70r/s; limit_reqzone=mylimit burst=9000 nodelay;

WSS compatibility config

maphttp_upgrade connection_upgrade { defaultupgrade; "close; }

Upstream group

upstreamrpc_stream { least_conn;#Redirect requests to the server with least number of active connections serverXXX.XXX.XXX.XXX:26657 max_fails=1000fail_timeout=30s; serverXXX.XXX.XXX.XXX:26657 max_fails=1000fail_timeout=30s; serverXXX.XXX.XXX.XXX:26657 max_fails=1000fail_timeout=30s;

}

upstreamgrpc_stream { least_conn;#Redirect requests to the server with least number of active connections serverXXX.XXX.XXX.XXX:9091 max_fails=1000fail_timeout=30s; serverXXX.XXX.XXX.XXX:9091 max_fails=1000fail_timeout=30s; serverXXX.XXX.XXX.XXX:9091 max_fails=1000fail_timeout=30s;

}

upstreamlcd_stream { least_conn;#Redirect requests to the server with least number of active connections serverXXX.XXX.XXX.XXX:1317 max_fails=1000fail_timeout=30s; serverXXX.XXX.XXX.XXX:1317 max_fails=1000fail_timeout=30s; serverXXX.XXX.XXX.XXX:1317 max_fails=1000fail_timeout=30s; }

server{ listen80; server_namerpc.YOUR_URL;

location/ { if(request_method='OPTIONS') { return204; }

proxy_hide_header'Access-Control-Allow-Origin'; proxy_hide_header'Access-Control-Allow-Credentials'; proxy_hide_header'Access-Control-Allow-Headers'; proxy_hide_header'Access-Control-Allow-Methods';

add_header'Access-Control-Allow-Origin'"http_origin"always; add_header'Access-Control-Allow-Credentials'"true'always; add_header'Access-

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Control-Allow-Headers* always; add_header'Access-Control-Allow-Methods'GET, POST, OPTIONS';

proxy_passhttp://rpc_stream;

proxy_set_headerHost host; proxy_set_headerX-Real-IP remote_addr; proxy_set_headerX-Forwarded-For proxy_add_x_forwarded_for;
proxy_set_headerX-Forwarded-Proto scheme; proxy_set_headerUpgrade http_upgrade;#WSS compatibility config proxy_set_headerConnection
connection_upgrade;#WSS compatibility config } }

server{ listen26657; server_namerpc.YOUR_URL;

location/ { if(request_method='OPTIONS') { return204; }

proxy_hide_header'Access-Control-Allow-Origin'; proxy_hide_header'Access-Control-Allow-Credentials'; proxy_hide_header'Access-Control-
Allow-Headers'; proxy_hide_header'Access-Control-Allow-Methods';

add_header'Access-Control-Allow-Origin'"http_origin"always; add_header'Access-Control-Allow-Credentials"true'always; add_header'Access-
Control-Allow-Headers* always; add_header'Access-Control-Allow-Methods'GET, POST, OPTIONS';

proxy_passhttp://rpc_stream;

proxy_set_headerHost host; proxy_set_headerX-Real-IP remote_addr; proxy_set_headerX-Forwarded-For proxy_add_x_forwarded_for;
proxy_set_headerX-Forwarded-Proto scheme; proxy_set_headerUpgrade http_upgrade;#WSS compatibility config proxy_set_headerConnection
connection_upgrade;#WSS compatibility config } }

server{ listen80; server_namegrpc.YOUR_URL;

location/ { if(request_method='OPTIONS') { return204; }

proxy_hide_header'Access-Control-Allow-Origin'; proxy_hide_header'Access-Control-Allow-Credentials'; proxy_hide_header'Access-Control-
Allow-Headers'; proxy_hide_header'Access-Control-Allow-Methods';

add_header'Access-Control-Allow-Origin'"http_origin"always; add_header'Access-Control-Allow-Credentials"true'always; add_header'Access-
Control-Allow-Headers* always; add_header'Access-Control-Allow-Methods'GET, POST, OPTIONS';

proxy_passhttp://grpc_stream;

proxy_set_headerHost host; proxy_set_headerX-Real-IP remote_addr; proxy_set_headerX-Forwarded-For proxy_add_x_forwarded_for;
proxy_set_headerX-Forwarded-Proto scheme; proxy_set_headerUpgrade http_upgrade;#WSS compatibility config proxy_set_headerConnection
connection_upgrade;#WSS compatibility config } }

server{ listen9091; server_namegrpc.YOUR_URL;

location/ { if(request_method='OPTIONS') { return204; }

proxy_hide_header'Access-Control-Allow-Origin'; proxy_hide_header'Access-Control-Allow-Credentials'; proxy_hide_header'Access-Control-
Allow-Headers'; proxy_hide_header'Access-Control-Allow-Methods';

add_header'Access-Control-Allow-Origin'"http_origin"always; add_header'Access-Control-Allow-Credentials"true'always; add_header'Access-
Control-Allow-Headers* always; add_header'Access-Control-Allow-Methods'GET, POST, OPTIONS';

proxy_passhttp://grpc_stream;

proxy_set_headerHost host; proxy_set_headerX-Real-IP remote_addr; proxy_set_headerX-Forwarded-For proxy_add_x_forwarded_for;
proxy_set_headerX-Forwarded-Proto scheme; proxy_set_headerUpgrade http_upgrade;#WSS compatibility config proxy_set_headerConnection
connection_upgrade;#WSS compatibility config } }

server{ listen1317; server_namelcd.YOUR_URL; location/ { if(request_method='OPTIONS') { return204; }

proxy_hide_header'Access-Control-Allow-Origin'; proxy_hide_header'Access-Control-Allow-Credentials'; proxy_hide_header'Access-Control-
Allow-Headers'; proxy_hide_header'Access-Control-Allow-Methods';

add_header'Access-Control-Allow-Origin' always; add_header'Access-Control-Allow-Credentials"true'always; add_header'Access-Control-Allow-
Headers' always; add_header'Access-Control-Allow-Methods* always;

proxy_passhttp://lcd_stream;

proxy_set_headerHost host; proxy_set_headerX-Real-IP remote_addr; proxy_set_headerX-Forwarded-For proxy_add_x_forwarded_for;
proxy_set_headerX-Forwarded-Proto scheme; proxy_set_headerUpgrade http_upgrade;#WSS compatibility config proxy_set_headerConnection
connection_upgrade;#WSS compatibility config } }

}

server{ listen80; server_namelcd.YOUR_URL; location/ {

if(request_method='OPTIONS') { return204; }

proxy_hide_header'Access-Control-Allow-Origin'; proxy_hide_header'Access-Control-Allow-Credentials'; proxy_hide_header'Access-Control-
Allow-Headers'; proxy_hide_header'Access-Control-Allow-Methods';

add_header'Access-Control-Allow-Origin' always; add_header'Access-Control-Allow-Credentials"true'always; add_header'Access-Control-Allow-
Headers' always; add_header'Access-Control-Allow-Methods* always;

proxy_passhttp://lcd_stream;

proxy_set_headerHost host; proxy_set_headerX-Real-IP remote_addr; proxy_set_headerX-Forwarded-For proxy_add_x_forwarded_for;

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proxy_set_headerX-Forwarded-Proto scheme; proxy_set_headerUpgrade http_upgrade;#WSS compatibility config proxy_set_headerConnection
connection_upgrade;#WSS compatibility config } }
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server{ listen127.0.0.1:80; server_name127.0.0.1; location/nginx_status { stub_statuson; allow127.0.0.1; denyall; } }
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}
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...
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