

Example Nginx config

Here is an example nginx.conf for Loadbalancing on Nginx:

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Copy user www-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.log warn; pid /var/run/nginx.pid;

events { worker_connections 1024; # 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_buffers 4k 64; server_names_hash_bucket_size 128;

map \$request_uri \$short_uri { "~^(.{0,50})" 1; default \$request_uri; }

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

IP addresses to not anonymize (such as your server)

127.0.0.1 \$remote_addr; ::1 \$remote_addr;

w.x.y.z \$remote_addr;

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

default 0.0.0.0; }

log_format combined_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_zone \$binary_remote_addr zone=mylimit:1M rate=70r/s; limit_req_zone \$mylimit burst=9000 nodelay;

WSS compatibility config

map \$http_upgrade \$connection_upgrade { default upgrade; "" close; }

Upstream group

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

}

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

}

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

server { listen 80; server_name rpc.YOUR_URL;

location / { if (\$request_method = 'OPTIONS') { return 204; }

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_pass http://rpc_stream_mainnet;
proxy_set_header Host \$host; proxy_set_header X-Real-IP \$remote_addr; proxy_set_header X-Forwarded-For \$proxy_add_x_forwarded_for;
proxy_set_header X-Forwarded-Proto \$scheme; proxy_set_header Upgrade \$http_upgrade; # WSS compatibility config proxy_set_header Connection

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connection_upgrade;#WSS compatibility config }

}

server{ listen26657; server_name rpc.YOUR_URL;

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

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_mainnet; 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_name grpc.YOUR_URL;

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

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_mainnet; 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_name grpc.YOUR_URL;

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

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_mainnet; 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_name lcd.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_mainnet; 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_name lcd.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_mainnet; 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{ listen127.0.0.1:80; server_name 127.0.0.1; location/nginx_status { stub_status on; allow 127.0.0.1; deny all; } }

}

...

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