<https://docs.nginx.com/nginx/admin-guide/content-cache/content-caching/>

---------------------------------------------------------

<https://serverfault.com/questions/223509/how-can-i-see-which-flags-nginx-was-compiled-with>

------------------------------------------------------------

Configuration summary

 + using system PCRE library

 + using system OpenSSL library

 + using system zlib library

 nginx path prefix: "/usr/local/nginx"

 nginx binary file: "/usr/local/nginx/sbin/nginx"

 nginx modules path: "/usr/local/nginx/modules"

 nginx configuration prefix: "/usr/local/nginx/conf"

 nginx configuration file: "/usr/local/nginx/conf/nginx.conf"

 nginx pid file: "/usr/local/nginx/logs/nginx.pid"

 nginx error log file: "/usr/local/nginx/logs/error.log"

 nginx http access log file: "/usr/local/nginx/logs/access.log"

 nginx http client request body temporary files: "client\_body\_temp"

 nginx http proxy temporary files: "proxy\_temp"

 nginx http fastcgi temporary files: "fastcgi\_temp"

 nginx http uwsgi temporary files: "uwsgi\_temp"

 nginx http scgi temporary files: "scgi\_temp"

--------------------------

-ldl -lpthread -lcrypt -lpcre -lssl -lcrypto -ldl -lpthread -lz \

-Wl,-E

sed -e "s|%%PREFIX%%|/usr/local/nginx|" \

 -e "s|%%PID\_PATH%%|/usr/local/nginx/logs/nginx.pid|" \

 -e "s|%%CONF\_PATH%%|/usr/local/nginx/conf/nginx.conf|" \

 -e "s|%%ERROR\_LOG\_PATH%%|/usr/local/nginx/logs/error.log|" \

 < man/nginx.8 > objs/nginx.8

make[1]: Leaving directory '/root/nginx-1.15.1'

---------------------------------

root@iptv:~/nginx-1.15.1# make install

make -f objs/Makefile install

make[1]: Entering directory '/root/nginx-1.15.1'

test -d '/usr/local/nginx' || mkdir -p '/usr/local/nginx'

test -d '/usr/local/nginx/sbin' \

 || mkdir -p '/usr/local/nginx/sbin'

test ! -f '/usr/local/nginx/sbin/nginx' \

 || mv '/usr/local/nginx/sbin/nginx' \

 '/usr/local/nginx/sbin/nginx.old'

cp objs/nginx '/usr/local/nginx/sbin/nginx'

test -d '/usr/local/nginx/conf' \

 || mkdir -p '/usr/local/nginx/conf'

cp conf/koi-win '/usr/local/nginx/conf'

cp conf/koi-utf '/usr/local/nginx/conf'

cp conf/win-utf '/usr/local/nginx/conf'

test -f '/usr/local/nginx/conf/mime.types' \

 || cp conf/mime.types '/usr/local/nginx/conf'

cp conf/mime.types '/usr/local/nginx/conf/mime.types.default'

test -f '/usr/local/nginx/conf/fastcgi\_params' \

 || cp conf/fastcgi\_params '/usr/local/nginx/conf'

cp conf/fastcgi\_params \

 '/usr/local/nginx/conf/fastcgi\_params.default'

test -f '/usr/local/nginx/conf/fastcgi.conf' \

 || cp conf/fastcgi.conf '/usr/local/nginx/conf'

cp conf/fastcgi.conf '/usr/local/nginx/conf/fastcgi.conf.default'

test -f '/usr/local/nginx/conf/uwsgi\_params' \

 || cp conf/uwsgi\_params '/usr/local/nginx/conf'

cp conf/uwsgi\_params \

 '/usr/local/nginx/conf/uwsgi\_params.default'

test -f '/usr/local/nginx/conf/scgi\_params' \

 || cp conf/scgi\_params '/usr/local/nginx/conf'

cp conf/scgi\_params \

 '/usr/local/nginx/conf/scgi\_params.default'

test -f '/usr/local/nginx/conf/nginx.conf' \

 || cp conf/nginx.conf '/usr/local/nginx/conf/nginx.conf'

cp conf/nginx.conf '/usr/local/nginx/conf/nginx.conf.default'

test -d '/usr/local/nginx/logs' \

 || mkdir -p '/usr/local/nginx/logs'

test -d '/usr/local/nginx/logs' \

 || mkdir -p '/usr/local/nginx/logs'

test -d '/usr/local/nginx/html' \

 || cp -R html '/usr/local/nginx'

test -d '/usr/local/nginx/logs' \

 || mkdir -p '/usr/local/nginx/logs'

make[1]: Leaving directory '/root/nginx-1.15.1'

<https://www.dreamvps.com/en/tutorials/article/hls-and-nginx-on-ubuntu>

VVV

https://www.techbeginner.in/2020/01/how-to-install-nginx-rtmp-server-with.html

------------------------------

root@iptv:/usr/local/nginx/conf# cat nginx.conf

#user nobody;

worker\_processes 1;

#error\_log logs/error.log;

#error\_log logs/error.log notice;

#error\_log logs/error.log info;

#pid logs/nginx.pid;

events {

 worker\_connections 1024;

}

rtmp {

server {

listen 1935; # Listen on standard RTMP port

chunk\_size 4000;

application hls {

live on;

# Turn on HLS

hls on;

hls\_path /mnt/hls/;

hls\_fragment 3;

hls\_playlist\_length 60;

# disable consuming the stream from nginx as rtmp

deny play all;

}

}

}

http {

 include mime.types;

 default\_type application/octet-stream;

 #log\_format main '$remote\_addr - $remote\_user [$time\_local] "$request" '

 # '$status $body\_bytes\_sent "$http\_referer" '

 # '"$http\_user\_agent" "$http\_x\_forwarded\_for"';

 #access\_log logs/access.log main;

 sendfile on;

 #tcp\_nopush on;

 #keepalive\_timeout 0;

 keepalive\_timeout 65;

 #gzip on;

server {

listen 8080;

location /hls {

# Disable cache

add\_header Cache-Control no-cache;

# CORS setup

add\_header 'Access-Control-Allow-Origin' '\*' always;

add\_header 'Access-Control-Expose-Headers' 'Content-Length';

# allow CORS preflight requests

if ($request\_method = 'OPTIONS') {

add\_header 'Access-Control-Allow-Origin' '\*';

add\_header 'Access-Control-Max-Age' 1728000;

add\_header 'Content-Type' 'text/plain charset=UTF-8';

add\_header 'Content-Length' 0;

return 204;

}

types {

application/vnd.apple.mpegurl m3u8;

video/mp2t ts;

}

root /mnt/;

}

}

 server {

 listen 80;

 server\_name localhost;

 #charset koi8-r;

 #access\_log logs/host.access.log main;

 location / {

 root html;

 index index.html index.htm;

 }

 #error\_page 404 /404.html;

 # redirect server error pages to the static page /50x.html

 #

 error\_page 500 502 503 504 /50x.html;

 location = /50x.html {

 root html;

 }

 # proxy the PHP scripts to Apache listening on 127.0.0.1:80

 #

 #location ~ \.php$ {

 # proxy\_pass http://127.0.0.1;

 #}

 # pass the PHP scripts to FastCGI server listening on 127.0.0.1:9000

 #

 #location ~ \.php$ {

 # root html;

 # fastcgi\_pass 127.0.0.1:9000;

 # fastcgi\_index index.php;

 # fastcgi\_param SCRIPT\_FILENAME /scripts$fastcgi\_script\_name;

 # include fastcgi\_params;

 #}

 # deny access to .htaccess files, if Apache's document root

 # concurs with nginx's one

 #

 #location ~ /\.ht {

 # deny all;

 #}

 }

 # another virtual host using mix of IP-, name-, and port-based configuration

 #

 #server {

 # listen 8000;

 # listen somename:8080;

 # server\_name somename alias another.alias;

 # location / {

 # root html;

 # index index.html index.htm;

 # }

 #}

 # HTTPS server

 #

 #server {

 # listen 443 ssl;

 # server\_name localhost;

 # ssl\_certificate cert.pem;

 # ssl\_certificate\_key cert.key;

 # ssl\_session\_cache shared:SSL:1m;

 # ssl\_session\_timeout 5m;

 # ssl\_ciphers HIGH:!aNULL:!MD5;

 # ssl\_prefer\_server\_ciphers on;

 # location / {

 # root html;

 # index index.html index.htm;

 # }

 #}

}

VLC TEST

<http://103.152.237.243:8080/hls/chi.m3u8>



# **How To Install Nginx RTMP Server with HLS on Ubuntu 16.04 | 18.04 | 20.04**

[Aftab Ali](https://www.blogger.com/profile/00710155680926192664) [January 09, 2020](https://www.techbeginner.in/2020/01/how-to-install-nginx-rtmp-server-with.html) [nginx,](https://www.techbeginner.in/search/label/nginx?&max-results=6?&max-results=7)

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Nginx RTMP is a TCP-based convention intended to keep up low-dormancy associations for sound and video spilling. To expand the measure of information that can be easily transmitted, streams are part into littler sections called parcels. RTMP additionally characterizes a few virtual channels that work autonomously of one another for bundles to be conveyed on. This implies video and sound are conveyed on discrete channels all the while, To get more information click [here](https://www.nginx.com/products/nginx/modules/rtmp-media-streaming/) to visit the official website.

Install Dependencies

To install Nginx RTMP server on ubuntu use the following commands with using root privileges.

[©](https://www.sayemtutorial.com/2020/07/how-to-add-syntax-highlighter-in-blogger.html)

sudo -i

apt-get update

apt-get install ffmpeg libpcre3 unzip libssl-dev build-essential libpcre3-dev -y

Download Nginx and RTMP Modules

To download the nginx and rtmp module use the following commands.

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cd /tmp

wget https://github.com/arut/nginx-rtmp-module/archive/master.zip

wget http://nginx.org/download/nginx-1.14.0.tar.gz

Extract and Compile the Nginx with RTMP module

After downloaded nginx with RTMP module, You need to extract and unzip the master.zip packages and compile the nginx rtmp module by following the commands.

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tar -zxvf nginx-1.14.0.tar.gz

unzip master.zip

cd nginx-1.14.0

./configure --with-http\_ssl\_module --add-module=../nginx-rtmp-module-master

make

make install

Configuration of Nginx Daemon

To control nginx daemon, We need to download the pre-define the service of nginx and make executable it by following the commands.

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cd /tmp

wget https://raw.github.com/JasonGiedymin/nginx-init-ubuntu/master/nginx -O /etc/init.d/nginx

chmod +x /etc/init.d/nginx

On boot enable nginx service

If you want start the nginx service on boot the server use the following commands.

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update-rc.d nginx defaults

Configuration of RTMP protocal in nginx config file by using the following the commands, Create a backup file of nginc.conf and than edit the original nginx.conf

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cp -p /usr/local/nginx/conf/nginx.conf nginx.conf\_backup

Open the nginx.conf with nano editor .

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nano /usr/local/nginx/conf/nginx.conf

Add the following configuration.

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#user nobody;

worker\_processes 1;

error\_log logs/rtmp\_error.log debug;

pid logs/nginx.pid;

events {

 worker\_connections 1024;

}

http {

 server {

 listen 80;

 server\_name localhost;

 location /hls {

 # Serve HLS fragments

 # CORS setup

 add\_header 'Access-Control-Allow-Origin' '\*' always;

 add\_header 'Access-Control-Expose-Headers' 'Content-Length';

 # allow CORS preflight requests

 if ($request\_method = 'OPTIONS') {

 add\_header 'Access-Control-Allow-Origin' '\*';

 add\_header 'Access-Control-Max-Age' 1728000;

 add\_header 'Content-Type' 'text/plain charset=UTF-8';

 add\_header 'Content-Length' 0;

 return 204;

 }

 types {

 application/vnd.apple.mpegurl m3u8;

 video/mp2t ts;

 }

 root /tmp;

 add\_header Cache-Control no-cache;

 }

 }

}

rtmp {

 server {

 listen 1935;

 chunk\_size 8192;

 application hls {

 live on;

 meta copy;

 hls on;

 hls\_path /tmp/hls;

 }

 }

}

Save and Exit from nano editor.

Create required directory for Stream and recording data by following the commands.

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**mkdir /mnt/hls**

mkdir /HLS

mkdir /HLS/live

mkdir /HLS/mobile

mkdir /video\_recordings

chmod -R 777 /video\_recordings

Restart the nginx service

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systemctl restart the nginx.service

Update the UFW firewall

If you have enable ufw firewall so then you need to allow the port 80 and port 1935 for rtmp protocol to access from the network, Use the following commands to open port 80 and port 1935.

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ufw allow 80

ufw allow 1935

ufw status

Check the nginx's RTMP service using netstate commands.

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netstate -plntu | grep 1935

Now you can stream with any key using OBS and Webcam, Use the given details.

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 rtmp://localhost/hls

To view the live HLS stream open you online player and enter the given url.

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http://localhost/HLS/stream\_name.m3u8