RTMP

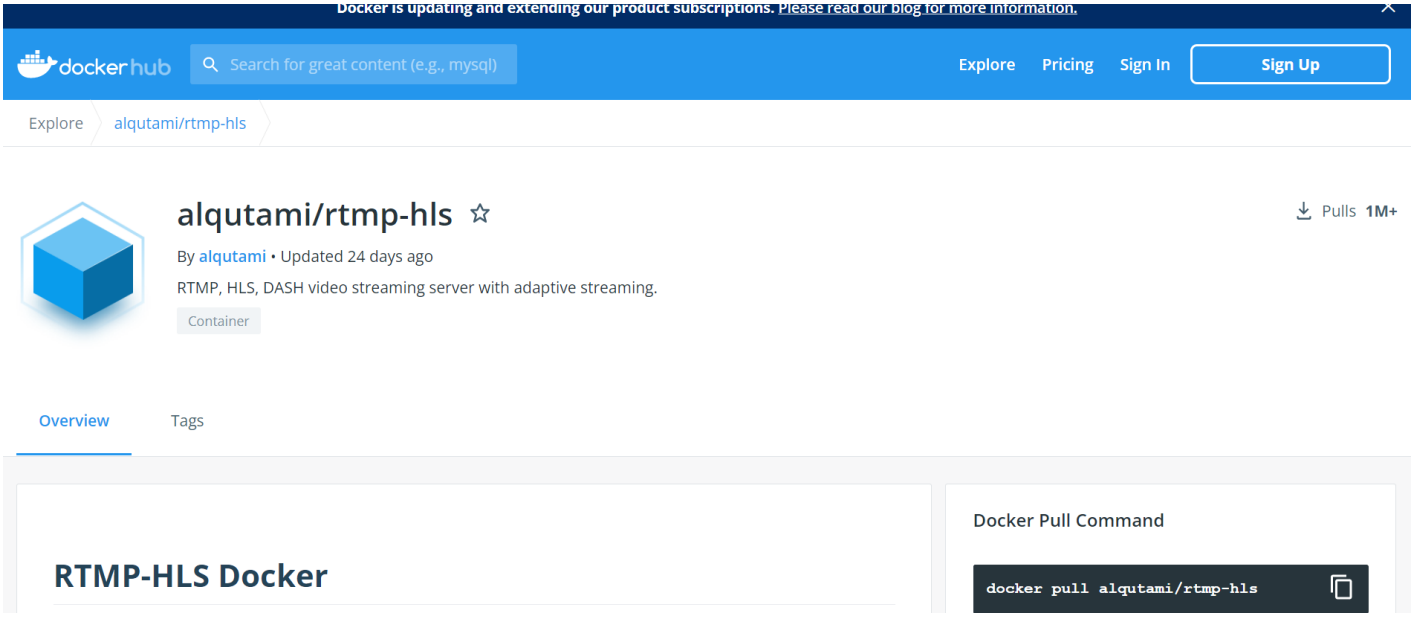
> RTMP

RTMP SRS Red5 wowoza FMS Nginx rtmp

Nginx github

`nginx + rtmp` docker alqutami/rtmp-hls `rtmp`

Docker RTMP HLS DASH Debian Alpine Linux



- nginx-rtmp-module Nginx
- FFmpeg
-
  - RTMP
  - HLS 5
  - DASH
  - Nginx RTMP FFmpeg
- .RTMP `http://<server ip>:<server port>/stats`
- video.jshls.js `/usr/local/nginx/html/players`.

- Nginx 1.17.5
- Nginx-rtmp-module 1.2.1

- FFmpeg 4.2.1

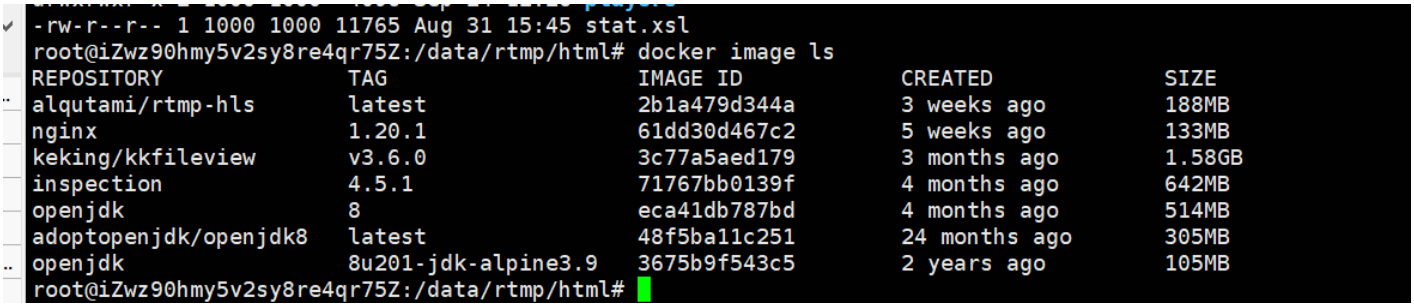
docke`docker`

```
# pull rtmp-hls image
docker pull alqutami/rtmp-hls

# see rtmp-hls image
docker image ls

# save image
docker image save alqutami/rtmp-hls:latest > alqutami_rtmp-hls_latest.tar.gz

# load image
docker image load < alqutami_rtmp-hls_latest.tar.gz
```



`docker container`

```
# base buid
docker run -d --name rtmp -p 1935:1935 -p 8080:8080 alqutami/rtmp-hls:latest

# see container
docker container exec -it rtmp bash

# delete container
docker container rm -f rtmp
```

- rtmp_html.tar.gz
- nginx.conf.tar.gz

- RTMP
  - `rtmp://<server ip>:1935/live/<stream_key>`
  - `<stream_key>`
- OBS

- >
- `rtmp://<server ip>:1935/live`
- `test`

- VLC
  - >
  - U `rtmp://<server ip>:1935/live/<stream-key>` `<server ip>` `<stream-key>`
  - HLS DASH U `http://<server ip>:8080/hls/<stream-key>.m3u8` `http://<server ip>:8080/dash/<stream-key>_src.mpd`
- test
  - RTMP `http://localhost:8080/players/rtmp.html`
  - HLS `http://localhost:8080/players/hls.html`
  - hls.js `http://localhost:8080/players/hls_hlsjs.html`
  - DASH `http://localhost:8080/players/dash.html`
  - RTM `http://localhost:8080/players/rtmp_hls.html`

*

- `test`
- html html src video

```
# conf buid
docker run -d \
--name rtmp \
-p 1935:1935 \
-p 8080:8080 \
-v /data/rtmp/nginx.conf:/etc/nginx/nginx.conf \
-v /data/rtmp/html:/usr/local/nginx/html \
alqutami/rtmp-hls:latest
# order conf copy
mkdir -p html/players

docker container cp rtmp:/usr/local/nginx/html/50x.html html/
docker container cp rtmp:/usr/local/nginx/html/index.html html/
docker container cp rtmp:/usr/local/nginx/html/players/dash.html html/players/
docker container cp rtmp:/usr/local/nginx/html/players/hls.html html/players/
docker container cp rtmp:/usr/local/nginx/html/players/hls_hlsjs.html html/players/
docker container cp rtmp:/usr/local/nginx/html/players/rtmp.html html/players/
docker container cp rtmp:/usr/local/nginx/html/players/rtmp_hls.html html/players/
docker container cp rtmp:/usr/local/nginx/html/stat.xsl html/
```

`rtmp` html

```
# stat page
http://rtmp.wzhz.xyz/stat
```

RTMP	#clients	Video				Audio				In bytes	Out bytes	In bits/s	Out bits/s	State	Time
Accepted: 72		codec	bits/s	size	fps	codec	bits/s	freq	chan	8.045 GB	1.364 GB	2.66 Mb/s	1 Kb/s		2h 48m 8s
live															
live streams	0														
show															
live streams	4														
G011_src	1	H264 Main 4.1	0 Kb/s	1280x720	30	AAC LC	0 Kb/s	44100	1	5.48 MB	0 KB	0 Kb/s	0 Kb/s	active	5s
G011_mid	1	H264 High 3.0	0 Kb/s	720x404	30	AAC LC	0 Kb/s	44100	1	787 KB	0 KB	0 Kb/s	0 Kb/s	active	6s
G011_low	1	H264 High 2.1	0 Kb/s	480x270	30	AAC LC	0 Kb/s	44100	1	306 KB	0 KB	0 Kb/s	0 Kb/s	active	6s
G011_high	1	H264 High 3.1	0 Kb/s	960x540	30	AAC LC	0 Kb/s	44100	1	1.46 MB	0 KB	0 Kb/s	0 Kb/s	active	6s

Generated by nginx-rtmp-module 1.1.4, nginx 1.17.5, pid 7, built Aug 31 2021 07:43:59 gcc 6.3.0 20170516 (Debian 6.3.0-18+deb9u1)

RTMP	#clients	Video				Audio				In bytes	Out bytes	In bits/s	Out bits/s	State	Time
Accepted: 70		codec	bits/s	size	fps	codec	bits/s	freq	chan	9.778 GB	4.432 GB	6.24 Mb/s	6.1 Mb/s		2h 37m 59s
live															
live streams	2														
G011	2	H264 Main 4.1	5.81 Mb/s	1280x720	0	AAC LC	2 Kb/s	44100	1	1.129 GB	1.019 GB	5.82 Mb/s	5.82 Mb/s	active	24m 46s
show															
live streams	1														
G011_low	1	H264 High 2.1	357 Kb/s	480x270	30	AAC LC	2 Kb/s	44100	1	7.43 MB	0 KB	359 Kb/s	0 Kb/s	active	2m 47s

Generated by nginx-rtmp-module 1.1.4, nginx 1.17.5, pid 6, built Aug 31 2021 07:43:59 gcc 6.3.0 20170516 (Debian 6.3.0-18+deb9u1)

```
# players page
http://rtmp.wzhz.xyz/players/dash.html
http://rtmp.wzhz.xyz/players/hls.html
http://rtmp.wzhz.xyz/players/rtmp.html
http://rtmp.wzhz.xyz/players/rtmp_hls.html
http://rtmp.wzhz.xyz/players/hls_hlsjs.html
```

HLS Player



Tareq-Alqutami - 2019

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