



## tiangolo/nginx-rtmp ☆

Pulls 5M+

By [tiangolo](#) • Updated 7 days ago

Docker image with Nginx using the nginx-rtmp-module module for live multimedia (video) streaming.

Image

Overview

Tags

Deploy passing

## Supported tags and respective Dockerfile links

- latest (Dockerfile)

Note: Note: There are [tags](#) for each build date. If you need to "pin" the Docker image version you use, you can select one of those tags. E.g. `tiangolo/nginx-rtmp:latest-2020-08-16`.

## nginx-rtmp

Docker image with [Nginx](#) using the [nginx-rtmp-module](#) module for live multimedia (video) streaming.

## Description

This [Docker](#) image can be used to create an RTMP server for multimedia / video streaming using [Nginx](#) and [nginx-rtmp-module](#), built from the current latest sources (Nginx 1.15.0 and nginx-rtmp-module 1.2.1).

This was inspired by other similar previous images from [dvdgiessen](#), [jasonrivers](#), [aevumdecessus](#) and by an [OBS Studio](#) post.

The main purpose (and test case) to build it was to allow streaming from [OBS Studio](#) to different clients at the same time.

GitHub repo: <https://github.com/tiangolo/nginx-rtmp-docker>

Docker Hub image: <https://hub.docker.com/r/tiangolo/nginx-rtmp/>

## Details

## How to use

- For the simplest case, just run a container with this image:

```
docker run -d -p 1935:1935 --name nginx-rtmp tiangolo/nginx-rtmp
```

## How to test with OBS Studio and VLC

- Run a container with the command above
- Open [OBS Studio](#)
- Click the "Settings" button
- Go to the "Stream" section
- In "Stream Type" select "Custom Streaming Server"
- In the "URL" enter the `rtmp://<ip_of_host>/live` replacing `<ip_of_host>` with the IP of the host in which the container is running. For example: `rtmp://192.168.0.30/live`
- In the "Stream key" use a "key" that will be used later in the client URL to display that specific stream. For example: `test`
- Click the "OK" button
- In the section "Sources" click the "Add" button ( + ) and select a source (for example "Screen Capture") and configure it as you need
- Click the "Start Streaming" button
- Open a [VLC](#) player (it also works in Raspberry Pi using `omxplayer` )
- Click in the "Media" menu
- Click in "Open Network Stream"
- Enter the URL from above as `rtmp://<ip_of_host>/live/<key>` replacing `<ip_of_host>` with the IP of the host in which the container is running and `<key>` with the key you created in OBS Studio. For example: `rtmp://192.168.0.30/live/test`

## Docker Pull Command

```
docker pull tiangolo/nginx-r_
```

- Click "Play"
- Now VLC should start playing whatever you are transmitting from OBS Studio

## Debugging

If something is not working you can check the logs of the container with:

```
docker logs nginx-rtmp
```

## Extending

If you need to modify the configurations you can create a file `nginx.conf` and replace the one in this image using a `Dockerfile` that is based on the image, for example:

```
FROM tiangolo/nginx-rtmp

COPY nginx.conf /etc/nginx/nginx.conf
```

The current `nginx.conf` contains:

```
worker_processes auto;
rtmp_auto_push on;
events {}
rtmp {
    server {
        listen 1935;
        listen [::]:1935 ipv6only=on;

        application live {
            live on;
            record off;
        }
    }
}
```

You can start from it and modify it as you need. Here's the [documentation related to `nginx-rtmp-module`](#).

## Technical details

- This image is built from the same base official images that most of the other official images, as Python, Node, Postgres, Nginx itself, etc. Specifically, [buildpack-deps](#) which is in turn based on [debian](#). So, if you have any other image locally you probably have the base image layers already downloaded.
- It is built from the official sources of **Nginx** and **nginx-rtmp-module** without adding anything else. (Surprisingly, most of the available images that include **nginx-rtmp-module** are made from different sources, old versions or add several other components).
- It has a simple default configuration that should allow you to send one or more streams to it and have several clients receiving multiple copies of those streams simultaneously. (It includes `rtmp_auto_push` and an automatic number of worker processes).

## Release Notes

### Latest Changes

- 🧑 Add GitHub Action for Docker Hub description. PR #45 by @tiangolo.
- Bump tiangolo/issue-manager from 0.3.0 to 0.4.0. PR #42 by @dependabot[bot].
- Bump actions/checkout from 2 to 3. PR #43 by @dependabot[bot].
- 🛠 Format CI config. PR #44 by @tiangolo.
- 🧑 Add Dependabot and funding configs. PR #41 by @tiangolo.
- 🛠 Allow using debug directives, enable `--with-debug` compile option. PR #16 by @agconti.
- 📦 Upgrade Nginx to 1.23.2 and OS to bullseye. PR #40 by @tiangolo.
- 📦 Upgrade to nginx-1.19.7. PR #26 by @cesarandreslopez.
- 🧑 Add scheduled CI. PR #39 by @tiangolo.
- 📦 Update RTMP module version to 1.2.2. PR #28 by @louis70109.
- 🧑 Add alls-green GitHub Action. PR #38 by @tiangolo.
- 🧑 Build to test on CI for PRs, update GitHub Actions. PR #37 by @tiangolo.
- ✎ Fix a typo in README. PR #20 by @Irishsmurf.
- 🧑 Add Latest Changes GitHub Action. PR #29 by @tiangolo.
- Add CI with GitHub actions. PR #15.
- Upgrade Nginx to version 1.18.0. PR #13 by @Nathanael-Mtd.

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