环境配置

nginx

若以前安装过, 先卸载

```
sudo apt-get --purge remove nginx
sudo apt-get --purge remove nginx-common
dpkg --get-selections|grep nginx
```

1.前置环境

```
sudo apt-get update
sudo apt-get install gcc
sudo apt-get install ruby
sudo apt-get install zlib1g
sudo apt-get install zlib1g.dev
sudo apt-get install libpcre3 libpcre3-dev
sudo apt-get install openssl libssl-dev
```

2.下载nginx源码

下载地址在https://nginx.org 源码在压缩包中附带1.22.1版本, nginx-1.22.1.tar.gz 解压到用户主目录 ~

3.下载nginx-http-flv-module

在压缩包中附带1.2.10版本nginx-http-flv-module-1.2.10.zip 把nginx-http-flv-module解压,移动到/usr/local目录下,并将文件夹改名为: nginx-http-flv-module

进入nginx目录

```
cd ~/nginx-1.22.1
```

将nginx-http-flv-module添加到nginx中

./configure --prefix=/usr/local --with-http_ssl_module --add-module=/usr/local/nginx/nginx-http-flv-module

生成make文件

make

安装

sudo make install

测试是否安装成功

nginx -v

4.配置nginx

需要修改nginx的配置文件,它的位置在nginx-1.22.1/conf/nginx.confnginx.conf文件内容如下:

```
worker_processes 10; #should be 1 for Windows, for it doesn't support Unix domain socket
#worker processes auto; #from versions 1.3.8 and 1.2.5
#worker cpu affinity 0001 0010 0100 1000; #only available on FreeBSD and Linux
#worker_cpu_affinity auto; #from version 1.9.10
error_log logs/error.log error;
#if the module is compiled as a dynamic module and features relevant
#to RTMP are needed, the command below MUST be specified and MUST be
#located before events directive, otherwise the module won't be loaded
#or will be loaded unsuccessfully when NGINX is started
#load_module modules/ngx_http_flv_live_module.so;
events {
    worker connections 10240;
}
http {
        include
                     mime.types;
        default_type application/octet-stream;
        sendfile
        keepalive_timeout 65;
        server {
                            9000; #http-flv的拉流端口
                server_name localhost【这个地方写你的ip、或者说是域名都是可以的--】; #http-flv的拉流ip
                location / {
                root
                     html;
               index index.html index.htm;
               }
           #http-flv的相关配置
               location /live{
               flv_live on; #打开HTTP播放FLV直播流功能
                chunked_transfer_encoding on;
                add_header 'Access-Control-Allow-Origin' '*';
                add_header 'Access-Control-Allow-Credentials' 'true';
                }
                location /hls{
                types {
                       application/vnd.apple.mpegurl m3u8;
                       video/mp2t ts;
                }
                root ~/nginx-1.22.1/html/hls;
                add_header 'Cache-Control' 'no-cache';
                location /dash {
                root ~/nginx-1.22.1/html/dash;
                add_header 'Cache-Control' 'no-cache';
                }
```

```
location /stat {
                #configuration of push & pull status
                rtmp_stat all;
                rtmp_stat_stylesheet stat.xsl;
                }
                location /stat.xsl {
                        root ~/nginx-1.22.1/html;
                }
                location /control {
                rtmp_control all; #configuration of control module of rtmp
                        }
                error_page
                             500 502 503 504 /50x.html;
                location = /50x.html {
                root
                      html;
                }
        }
}
rtmp_auto_push on;
rtmp_auto_push_reconnect 1s;
rtmp_socket_dir /tmp;
rtmp{
        out_queue 4096;
        out_cork 8;
        max_streams 128;
        timeout 15s;
        drop_idle_publisher 15s;
        log_interval 5s;
        log_size 1m;
        server{
            #推流端口
                listen 1935;
            #推流应用名称
                application myapp{
                 live on;
                 record off;
                 gop_cache on;
                application hls{
                        live on;
                        hls on;
                        hls_path ~/nginx-1.22.1/html/hls;
                        hls_fragment 1s;
                        hls_playlist_length 3s;
                }
```

文件中有五处路径为~/nginx-1.22.1,在实际使用时要换成具体的目录,例如用户为admin,那么这里就要写对应的用户主目录/home/admin/nginx-1.22.1。 该文件要放到/usr/local/nginx/conf文件夹下

5.启动nginx

```
sudo cd /usr/local/nginx
sudo sbin/nginx -c conf/nginx.conf
sudo sbin/nginx -s reload
```

6.安装ffmpeg

sudo apt-get install ffmpeg

7.测试推流

ffmpeg -re -i rtsp://wowzaec2demo.streamlock.net/vod/mp4:BigBuckBunny_115k.mp4 -vcodec copy -acodec copy -f flv '

Docker

Docker安装

```
sudo apt-get install curl
curl -sSL https://get.daocloud.io/docker | sh
```

拉取镜像源

docker pull iludfy/predict_model

Docker创建容器并启动

拉取完镜像需要挂载到容器中才能启动,命令是docker run,它的参数如下:

docker run [Options] image

#参数说明

 --name="名字"
 指定容器名字

 -d
 后台方式运行

-it 使用交互方式运行,进入容器查看内容

-p 指定容器的端口

-p ip:主机端口:容器端口 配置主机端口映射到容器端口

-p 主机端口:容器端口 (常用)

-p 容器端口

-P 随机指定端口

-e 环境设置

-v 容器数据卷挂载

规定端口为5000,输入下面的命令:

```
docker run -p 5000:5000 iludfy/predict_model
```

一个容器就已经被创建好并启动了。

端口被占用解决办法:

以ubuntu系统为例: 先查到5000端口被哪个进程占用: sudo netstat -ntlp

查到进程id后,使用kill命令杀死进程: sudo kill {pid}

查看刚刚创建的容器的id: docker ps -a

docker start {id}