

系统环境

阿里云服务器最低版本即可，建议买香港服务器，

centos 7以上

如果不愿意买的同学可以使用班级服务器(班级服务器配置比较差 香港地区)

公网IP地址: 8.210.239.39

用户名 root

密码 Maniu110

1 创建根目录

```
cd ~  
mkdir rtmp  
cd rtmp
```

3.安装git

```
yum install git -y
```

4.下载nvm是node版本控制器

```
git clone git://github.com/creationix/nvm.git ~/nvm
```

5.设置nvm自动运行

```
echo "source ~/nvm/nvm.sh" >> ~/.bashrc  
source ~/.bashrc
```

6.查询node版本

```
nvm list-remote
```

7.安装node

```
nvm install v11.6.0 版本号
```

然后在你的命令半输入node -v就可以查看安装的版本了

```
[root@instance-iq0qae0z ~]# node -v  
v11.6.0  
[root@instance-iq0qae0z ~]#
```

8.Nginx服务器安装

8.1.安装pcre依赖

```
yum -y install pcre*
```



8.2.安装openssl依赖

```
yum -y install openssl*
```



以上两个都安装玩之后，接下来开始正式安装了

2 首先需要下载

```
wget http://nginx.org/download/nginx-1.15.3.tar.gz
```

```
wget https://codeload.github.com/arut/nginx-rtmp-module/tar.gz/v1.2.1
```

3.安装git工具

```
yum install git
```

4.解压

```
tar xvf v1.2.1
```

```
tar xvf nginx-1.15.3.tar.gz
```

5 进入nginx目录

```
cd nginx-1.15.3
```

7 生成nginx 安装文件

```
#--add-module 指向rtmp模块目录  
.configure --prefix=../bin --add-module=../nginx-rtmp-module-1.2.1  
make -j4  
make install
```



在这个过程中可能因为环境不同而出现不同错误，比如缺少pcre、openssl等，这时候就需要安装这些库。 <https://blog.csdn.net/z920954494/article/details/52132125>

8 cd到 cd bin/conf目录下

9.配置

```
//修改默认监听端口  
vi conf/nginx.conf
```

搭建流媒体服务器相关配置

1.继续上面的第4步

```
user root;  
worker_processes 1;  
error_log /root/nginx-1.14.2/bin/logs/error.log debug;  
events {  
    worker_connections 1024;  
}
```

```
rtmp {
    server {
        listen 1935;#之后推流拉流的端
        application live {
            live on;
        }
    }
}

http{
    server{
        listen 8080;
        server_name localhost;
        location /stat.xsl
        {
            root /root/nginx-rtmp-module-1.2.1;
        }

        location /stat {
            rtmp_stat all;
            rtmp_stat_stylesheet stat.xsl;
        }
        location /control{
            rtmp_control all;
        }
        location -publisher
        { #注意目录
            root /root/nginx-rtmp-module-1.2.1/test;
        }
        location / {
            #注意目录
            root /root/nginx-rtmp-module-1.2.1/test/www;
        }
    }
}
```

10 回退到 nginx-rtmp-module-1.2.1目录下

```
cd /root/nginx-1.15.3
```

6.运行nginx，进入第5步安装完后的nginx文件

```
./bin/sbin/nginx -c conf/nginx.conf
```

设置行号

如果linux没有行号

修改vi ~/.vimrc 文件，添加：set number

检查nginx是否重启成功

```
./sbin/nginx -t
```

停止nginx进程

```
ps -ef | grep nginx
```

配置完成后重启nginx
.sbin/nginx -s reload

配置阿里云服务器端口

Cloud Server ECS / Instance / iZj6cfpllbkqhun8tnvbbz

Basic Information

Instance ID: iZj6cfpllbkqhun8tnvbbz Status: Running

Public IP: 8.210.234.39 Security Group: sg-j6c7krv4f6bk4yglx0fy

Region Selection: China (Hong Kong) Local Region: Hong Kong (B) Primary Hostname: iZj6cfpllbkqhun8tnvbbz Creation Time: 2021-01-16 14:13:00

Description: - Modify instance description Creation Time: 2022-01-16 23:59:59 Last Update: 2022-01-16 23:59:59

CPU & Memory: 2 核 1GiB Operation System: CentOS 7.6 64位 Network Type: VPC Network Interface: eth0 (Primary IP: 172.19.34.50)

Network Configuration: Network Type: Private Network RDMA IP: -

Bandwidth: 1 Mbps Security Group: vpc-j6c7krv4f6bk4yglx0fy

Port: 0 Security Group ID: centos_7_06_64_206_alibase_20190711whd Current Usage: 1Mbps Create Custom Rule Change Bandwidth

Network Information: Network Type: Private Network RDMA IP: -

Bandwidth: 1 Mbps Security Group: vpc-j6c7krv4f6bk4yglx0fy

Port: 0 Security Group ID: centos_7_06_64_206_alibase_20190711whd Current Usage: 1Mbps Create Custom Rule Change Bandwidth

Networking: Network Type: Private Network RDMA IP: -

Bandwidth: 1 Mbps Security Group: vpc-j6c7krv4f6bk4yglx0fy

Port: 0 Security Group ID: centos_7_06_64_206_alibase_20190711whd Current Usage: 1Mbps Create Custom Rule Change Bandwidth

Pay-as-you-go: Configuration: Pay-as-you-go Configuration: Pay-as-you-go

Cloud Server ECS / Security Groups / Security Groups List

Search: Input security group name to search

Security Group ID/Name	Tags	Associated Networks	Related Instances	IP Count	Network Type	Security Group Type	Creation Time	Description	Action
sg-j6c7krv4f6bk4yglx0fy	vpc-j6c7krv4f6bk4yglx0fy	1999	Private Network	普通安全组	2021-01-16 14:13:00	System created security group	Modify View Delete Configure Rules View Details Manage Instances Manage Security Groups View Network Interface		

Network & Security: Security Groups

Cloud Server ECS / Security Groups / sg-j6c7krv4f6bk4yglx0fy / vpc-j6c7krv4f6bk4yglx0fy

Basic Information

Security Group ID/Name: sg-j6c7krv4f6bk4yglx0fy / sg-j6c7krv4f6bk4yglx0fy Security Group Type: Standard Security Group

Tags: -

Access Rules

Direction: Inbound | Outbound | Add Rule | Advanced Search | Full Refresh | Search: Enter port number or security group ID, multiple can be separated by commas.

Priority: 1 | Protocol: TCP | Port Range: 8080/8080 | Source: 0.0.0.0/0 | Description: -

Allow/Deny	Priority	Protocol	Port Range	Source	Description	Action
Allow	100	Custom TCP	8080/8080	0.0.0.0/0	System created rule.	View Edit Delete
Allow	100	Custom TCP	22/2	telnet (23)	System created rule.	View Edit Delete
Allow	100	Custom TCP	80	HTTP (80)	System created rule.	View Edit Delete
Allow	100	Custom TCP	443	HTTPS (443)	System created rule.	View Edit Delete
Allow	100	Custom TCP	1433	MS SQL (1433)	System created rule.	View Edit Delete
Allow	100	Custom TCP	1521	Oracle (1521)	System created rule.	View Edit Delete
Allow	100	Custom TCP	3306	MySQL (3306)	System created rule.	View Edit Delete

Input: Enter port number or security group ID, multiple can be separated by commas.

0.0.0.0/0 表示对所有机器开放访问

执行上面命令后控制台的大致样子

此时ffmpeg正将MP4文件以rtmp协议推送给上面的nginx流媒体服务器，此时可以进入 http:// + 服务器 ip + : + 端口号 + /stat 网页查看信息

如下图，先不要看红框中的，应该会出现蓝框中的信息，publishing，就是推流端，可以看到有一个流正在一直被推送给nginx服务器

RTMP	#clients	Video				Audio				In bytes	Out bytes	In bits/s	Out bits/s	State	Time
		codec	bits/s	size	fps	codec	bits/s	freq	chan	12.56 MB	2.58 MB	578 Kb/s	644 Kb/s		
Accepted: 5															
live															
live streams	2														
test	2	H264	High 3.1	602 Kb/s	1280x720	29	AAC LC	10 Kb/s	44100 2	12.53 MB	3.88 MB	613 Kb/s	613 Kb/s	active	1m 55s
Id	State	Address	Flash version	Page URL	SWF URL	Dropped	Timestamp	A-V	Time						
5	playing	39.106.30.108	LNX 9,0,124,2			0	20315	28	1m 31s						
3	publishing	39.106.30.108	FMLE/3.0 (compatible; Lavf56.40			0	20315	28	1m 55s						

Generated by [nginx-rtmp-module](#) 1.1.4, [nginx](#) 1.8.1, pid 13876, built Apr 9 2019 10:13:26 gcc 4.8.5 20150623 (Red Hat 4.8.5-36) (GCC)

然后可以使用播放器收看该直播流，这里推荐时用VLC

VLC收看直播流

填入上面推流的url: rtmp://nemtech.cn:82/live/test

就可以收看刚才推送的MP4文件直播了

mac搭建

mac + nginx + rtmp 模块

1. brew tap denji/nginx
2. brew install nginx-full --with-rtmp-module
3. 配置

接下来配置config，在 /usr/local/etc/nginx 下的nginx.conf
添加rtmp

```
rtmp {  
    server {  
        listen 1935;  
        ping 30s;  
        notify_method get;  
  
        application myapp {  
            live on;  
            record off;  
            #丢弃闲置5s的连接  
            drop_idle_publisher 5s;  
            max_connections 1024;  
        }  
    }  
}
```





```
}

#增加对HLS支持开始
application hls {
    live on;
    hls on;
    hls_path /usr/local/var/www/hls;
    hls_fragment 5s;
}
#增加对HLS支持结束
}
}
```

下载模块并解压

```
 wget https://codeload.github.com/arut/nginx-rtmp-module/tar.gz/v1.2.1
 tar xvf v1.2.1
```

解压的到 nginx-rtmp-module-1.2.1

配置

```
server {
    listen      8080;
    server_name localhost;

    #charset koi8-r;

    #access_log  logs/host.access.log  main;

    #.....
    #添加的部分
    location /stat {
        rtmp_stat all;
        rtmp_stat_stylesheet stat.xsl;
    }
    location /stat.xsl {
        #为nginx-rtmp-module解压的地址
        root /usr/local/live/nginx-rtmp-module-master/;
        root /xxxx/dev/server_workspace/nginx-rtmp-module-1.2.1;
    }
    #.....



    location / {
        root  html;
        index index.html index.htm;
    }
}
```

省略后面默认的。。。

}

1. 测试启动

nginx 启动

nginx -s reload 重启

nginx -s stop 停止

注意点

其实就是从 `nginx-rtmp-module-1.2.1/test/nginx.conf` 中拷贝。

端口占用检查：`lsof -i:8080` 需要注意的是目录与端口是否被占用，比如8080端口被占用，可以改为了8081，然后需要开放端口。

如果使用的阿里云服务器可以进入阿里云控制台开放

1. 测试

`ip:8080/stat`

2. 推流测试

<https://obsproject.com/welcome>

先用Obs测试

在OBS 推流软件设置

地址：<rtmp://ip:1935/myapp>

秘钥：abc

成功后会有记录

RTMP	#clients	Video			Audio			In bytes	Out bytes	In bits/s	Out bits/s	State	Time	
Accepted: 5		codec	bits/s	size	fps	codec	bits/s	freq	chan	48.73 MB	7.44 MB	0 Kb/s	0 Kb/s	48m 17s
myapp														
live streams	1													
abc	1		0 Kb/s				0 Kb/s			0 KB	0 KB	0 Kb/s	0 Kb/s	idle 17s
Id State Address Flash version Page URL SWF URL Dropped Timestamp A-V Time														
23	playing	192.168.31.40	LNX	9.0.124,2			0	0	0	17s				
hls														
live streams	0													

Generated by `nginx-rtmp-module` 1.1.7.11-dev, `nginx` 1.19.3, pid 64706, built Oct 28 2020 15:58:16 clang 11.0.3 (clang-1103.0.32.62)

推流服务显示.png

然后用vlc输入播放的流地址

<rtmp://ip:1935/myapp/abc>



