

环境准备

一. 下载rtmp服务器 crttmpserver

<https://github.com/j0sh/crtmpserver>

编译安装 有详细的步骤:

编译 :cd crttmpserver/builders/cmake cmake . (需安装cmake)

修改:crttmpserver.lua 配置中 mediaFolder的目录 (/mp4) 并放入flv文件

运行:./crtmpserver/crtmpserver crttmpserver/crtmpserver.lua

运行成功如图:

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| c |      ip      | port | protocol stack name | application name |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tcp |    0.0.0.0 | 1112 |      inboundJsonCli |          admin |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tcp |    0.0.0.0 | 1935 |      inboundRtmp |      appselector |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tcp |    0.0.0.0 | 8081 |      inboundRtmps |      appselector |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tcp |    0.0.0.0 | 8080 |      inboundRtmpt |      appselector |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tcp |    0.0.0.0 | 6666 |      inboundLiveFlv |      flvplayback |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tcp |    0.0.0.0 | 9999 |      inboundTcpTs |      flvplayback |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tcp |    0.0.0.0 | 6665 |      inboundLiveFlv |      proxypublish |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tcp |    0.0.0.0 | 8989 |      httpEchoProtocol |      samplefactory |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tcp |    0.0.0.0 | 8988 |      echoProtocol |      samplefactory |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tcp |    0.0.0.0 | 1111 |      inboundHttpXmlVariant |      vptestst |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
/work/crtmpserver-centosinit/sources/crtmpserver/src/crtmpserver.cpp:272 GO! GO! GO!
```

注意: crttmpserver提供的 JW Player 网页客户端 不能用了, 估计是新版的jwpayer不支持了, 后面使用新版的jwplayer客户端

二. 网页客户端

jwplayer <https://www.jwplayer.com/>

需要邮箱注册, 之后可以下载jwplayer-7.3.4.ZIP, 还需要LICENSE KEY :

iiL9xxalkP7di2nLZ3tPLw0NLBCHdHBe8i3QDQ==

| DOWNLOADS                 |   |         |         |
|---------------------------|---|---------|---------|
| NAME                      | LICENSE KEY   | VERSION | RELEASE |
| JW Player 7 (Self-Hosted) | <div>iiL9xxalkP7di2nLZ3tPLw0NLBCHdHBe8i3QDQ==</div> <div>COPY</div> | 7.3.4   | Feb. 26 |
| JW Player 6 (Self-Hosted) | <div>CCNQMP2usd2zEkg1d874cI9yvDhV9sBPDdoUBw==</div> <div>COPY</div> | 6.12    | Feb. 25 |
| Android SDK               | <div>⬆ Upgrade to download the Android SDK</div>                    | 2.1.1   | Feb. 12 |
| iOS SDK                   | <div>⬆ Upgrade to download the iOS SDK</div>                        | 2.1.0   | Feb. 2  |
| Apple TV App              | No license key is necessary for the Apple TV App                    | 1.0     | Feb 15  |

编写网页客户端:保存为 testlive.html

```
<html>
<head>
<script src="/jwplayer.js"></script>
<script type="text/JavaScript">jwplayer.key="iiL9xxalkP7di2nLZ3tPLw0NLBCHdHBe8i3QDQ=="</script>
</head>

<body>
<div id='my-video'></div> <script type='text/javascript'>
  jwplayer('my-video').setup({
    file: 'rtmp://192.168.1.148/live/2',    #ip 为RTMP 服务器的IP live为rtmp服务器配置文件中的aliases或name; 2 为flv文件
    width: '480',
    height: '270'    });
</script>
</body>
</html>
```

放入 jwplayer 目录下,并将整个jwplayer目录放入web服务器 目录

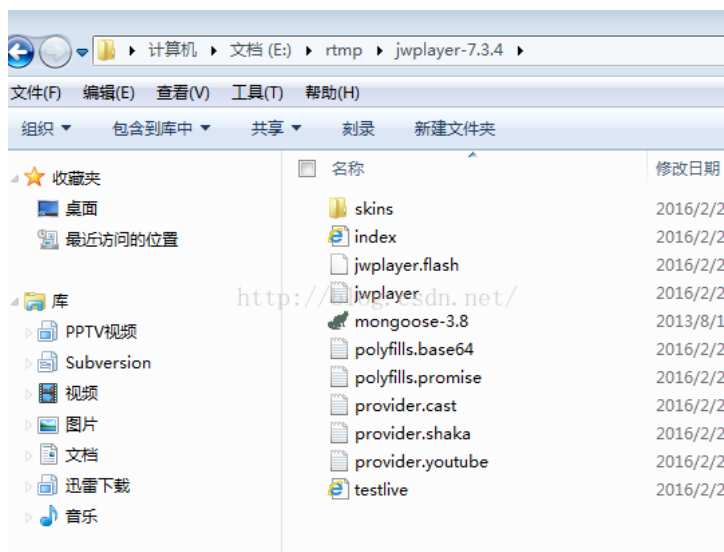
我这里使用nginx

```
root@ubuntu:/usr/local/nginx/html/jw# ll
total 492
drwxr-xr-x 3 root root 4096 Feb 29 00:56 ./
drwxr-xr-x 3 root root 4096 Feb 26 02:10 ../
-rw-r--r-- 1 root root 520 Feb 26 02:16 index.html
-rw-rw-r-- 1 root root 95606 Feb 25 00:49 jwplayer.flash.swf
-rw-rw-r-- 1 root root 226776 Feb 25 00:49 jwplayer.js
-rw-rw-r-- 1 root root 874 Feb 25 00:49 polyfills.base64.js
-rw-rw-r-- 1 root root 2394 Feb 25 00:49 polyfills.promise.js
-rw-rw-r-- 1 root root 12461 Feb 25 00:49 provider.cast.js
-rw-rw-r-- 1 root root 118942 Feb 25 00:49 provider.shaka.js
-rw-rw-r-- 1 root root 5610 Feb 25 00:49 provider.youtube.js
drwxr-xr-x 2 root root 4096 Feb 26 02:08 skins/
-rw-r--r-- 1 root root 404 Feb 29 00:56 testlive.html
root@ubuntu:/usr/local/nginx/html/jw#
```



网页客户端依赖于WEB服务器 , 所以需要下载WEB SERVER , 随便哪个毒性

1. <https://github.com/nginx/nginx>
2. apache
3. mongoose (最方便 一个文件 运行即可)



### 三. PC客户端

vlc <http://www.videolan.org/> 下载安装版



### 四: librtmp

<http://rtmpdump.mplayerhq.hu/> 暂未测试

<https://github.com/arut/nginx-rtmp-module> 暂未测试