

HTML



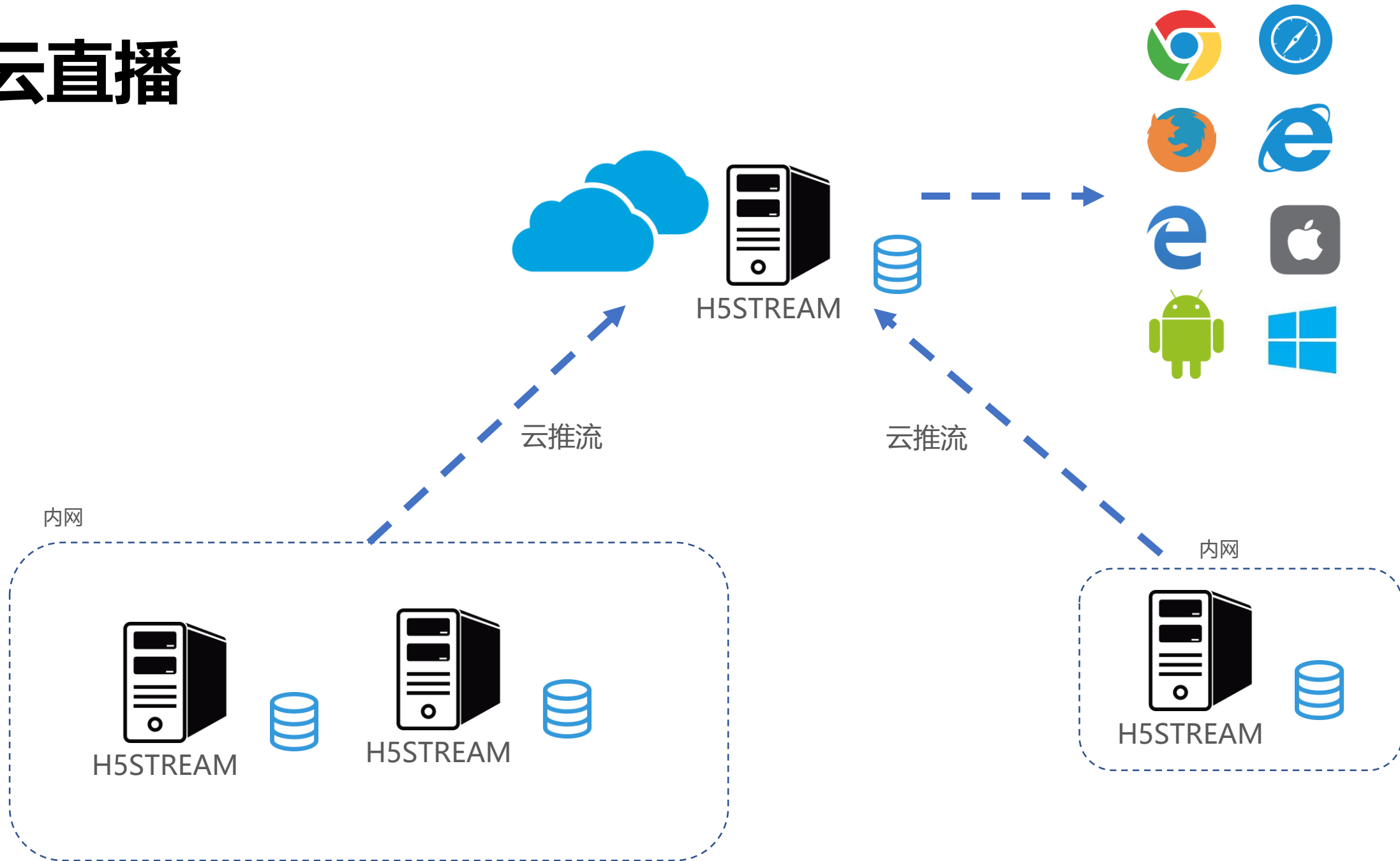
H5STREAM

linkingvison

内网直播



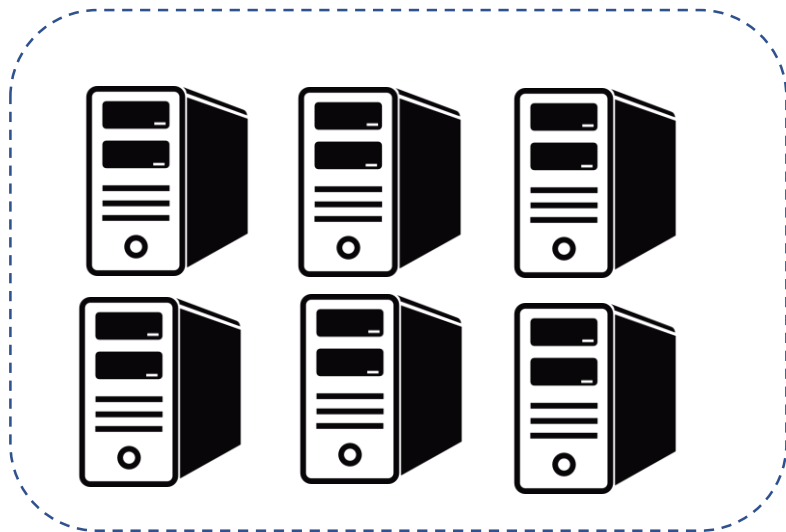
云直播



集群



基于consul微
服务机制，服
务自动发现



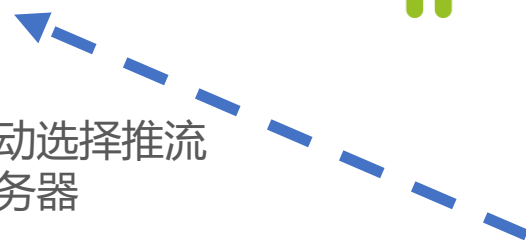
H5STREAM

自动选择播放
服务

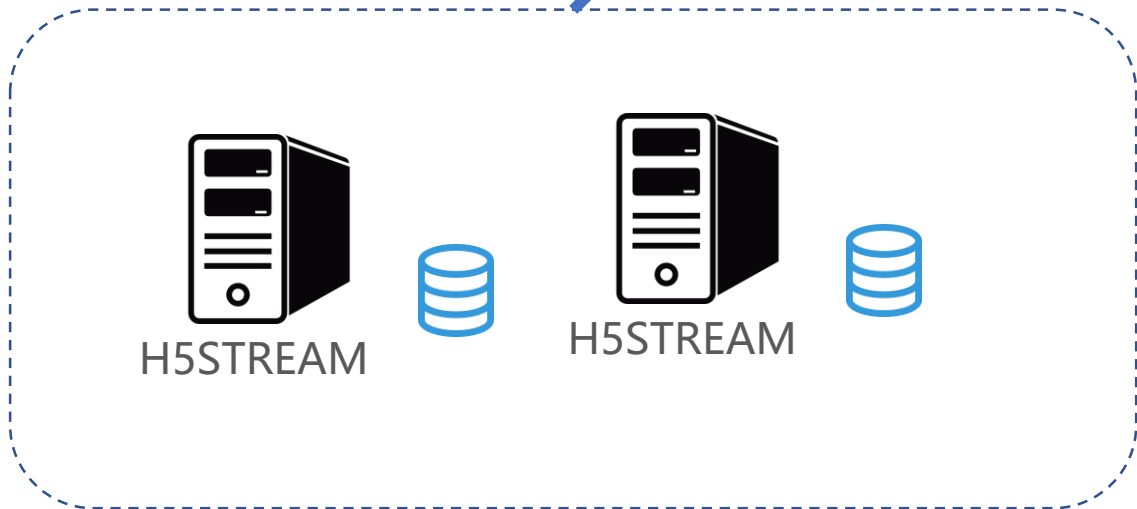


自动选择推流
服务器

自动选择推流
服务器



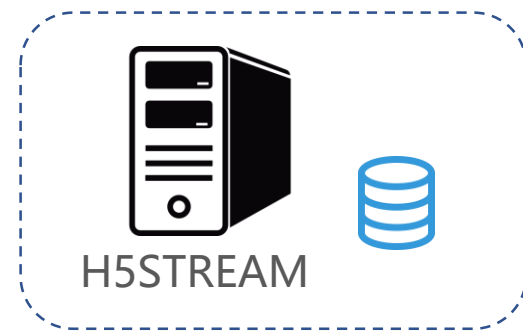
内网



H5STREAM

H5STREAM

内网



H5STREAM

RESTFUL 接口

系统

Login

Logout

Keepalive

视频源管理

GetSrc

GetImage

AddSrcFile

AddSrcRTSP

AddSrcONVIF

DelSrc

Ptz

ONVIF

OnvifSearch

OnvifProbe

录像和快照

Record

Snapshot

Search

JAVASCRIPT 接口

WEBSOCKET

H5sPlayerWS

```
/**
 * Interface with h5s websocket player API
 * @constructor
 */

function H5sPlayerWS(conf)

H5sPlayerWS.prototype.connect
H5sPlayerWS.prototype.disconnect
```

WEBRTC

H5sPlayerRTC

```
/**
 * Interface with h5s WebRTC player API
 * @constructor
 * @param {string} videoId - id of the
video element tag
 */
function H5sPlayerRTC(conf)

H5sPlayerRTC.prototype.connect
H5sPlayerRTC.prototype.disconnect
```

RTMP

VideoJS

www/rtmp.html

HLS

H5sPlayerHls

```
/**
 * Interface with h5s websocket player API
 * @constructor
 */
function H5sPlayerHls(conf)
H5sPlayerHls.prototype.connect
H5sPlayerHls.prototype.disconnect
```

```
/**
 @param
 var conf = {
   videoid:'h5sVideo1', //{string} - id of the video element tag
   videodom: h5svideodom1, //{object} - video dom. if there has videoid, just use the videoid
   protocol: window.location.protocol, // {string} - http: or https:
   host: window.location.host, //{string} - localhost:8080
   rootpath>window.location.pathname, // {string} - path of the app running
   token:'token1', // {string} - token of stream
   hlsver:'v1', //{string} - v1 is for ts, v2 is for fmp4
   session:'c1782caf-b670-42d8-ba90-2244d0b0ee83' //{string} - session got from login
 */
```

浏览器兼容性

| | Chrome | Firefox | IE11 | Edge | Safari | WeChat |
|----------|---------------------|---------------------|-------------------|--------|---------------------|---------------|
| WIN7 | WEBRTC WEBSOCKET | WEBRTC WEBSOCKET | RTMP | - | - | - |
| WIN 8/10 | WEBRTC WEBSOCKET | WEBRTC WEBSOCKET | RTMP WEBSOCKET | WEBRTC | - | - |
| macOS | WEBRTC WEBSOCKET | WEBRTC WEBSOCKET | - | - | WEBRTC WEBSOCKET | - |
| iOS 11 | HLS WEBRTC | HLS WEBRTC | - | - | HLS WEBRTC | HLS WEBRTC |
| iOS 8-10 | HLS | HLS | - | - | HLS | HLS |
| Android | WEBSOCKET WEBRTC | WEBRTC WEBSOCKET | - | - | - | WEBSOCKET |

单协议客户端

<http://localhost:8080/ws.html?token=token1&autoplay=1>

<http://localhost:8080/rtc.html?token=token1&autoplay=1>

<http://localhost:8080/rtmp.html?token=token2>

<http://localhost:8080/hls.html?token=token2>

| Websocket | WebRTC | RTMP | HLS |
|-----------|----------|-----------|----------|
| ws.html | rtc.html | rtmp.html | hls.html |

Chrome support this <http://localhost:8080/rtc.html?token=token1&autoplay=1>

but when change to websocket, chrome doesn't allow

Uncaught (in promise) DOMException: play() failed because the user didn't interact with the document first. <https://goo.gl/xX8pDD>

配置文件

| conf/h5ss.conf | |
|----------------|--------------------------------------|
| HTTP | HTTP HTTPS 服务器配置 |
| RTSP | RTSP 服务器配置, SSL 代表 RTSP over TCP/TLS |
| RTMP | RTMP服务器配置, SSL 代表 RTMP over TCP/TLS |
| FLV | FLV服务器配置, SSL 代表 FLV over HTTPS |
| HLS | HLS服务器配置, 包括HLS版本及参数配置 |
| WEBRTC | WEBRTC 配置 |
| SYSTEM | H5stream系统配置, 包括日志和线程池配置 |
| USER | 用户管理配置 |
| SOURCE | 视频源配置, 包括文件 RTSP/RTMP/ONVIF |


音频开启

h5stream 从5.4开始支持AAC 音频, 已经测试过HIKVISION的网络摄像机。
从6.0 开始, h5stream 对G711/PCM 音频进行转码成AAC以便支持音频

1.在配置文件中开启音频支持

```
...
    "strPasswdComment": "password",
    "strPasswd": "admin12345",
    "bPasswdEncryptComment": "Password Encrypted",
    "bPasswdEncrypt": false,
    "bEnableAudioComment": "Enable Audio",
    "bEnableAudio": true,
    "nConnectTypeComment": "H5_ONDEMAND/H5_ALWAYS/H5_AUTO",
    "nConnectType": "H5_AUTO",
    "nRTSPTypeComment": "RTSP Connect protocol H5_RTSP_TCP/H5_
    "nRTSPType": "H5_RTSP_AUTO",
    "strSrcIpAddressComment": "Ip Address for the device",
    "strSrcIpAddress": "192.168.100.173",
    ...
```

2.把网络摄像机的音频格式修改为AAC

| 视频 | <u>音频</u> | ROI | 码流信息叠加 | 区域裁剪 |
|--------|--|-----|--------|------|
| 音频编码 | AAC | | | |
| 采样率 | 16kHz | | | |
| 音频码率 | 32kbps | | | |
| 音频输入 | LineIn | | | |
| 输入音量 |  19 | | | |
| 环境噪声过滤 | 关闭 | | | |