第三方平台对接Nginx配置方法

简介

WebRTC（Web Real-Time Communication）是一种支持网页浏览器进行实时语音对话或视频聊天的技术。

由于WebRTC技术在实现实时通信时涉及敏感的用户数据和媒体流，为了确保这些数据的安全传输，避免潜在的安全威胁，如中间人攻击和数据泄露等，WebRTC规范要求所有使用WebRTC的应用都必须在HTTPS环境下运行。

HTTPS通过SSL/TLS加密，为数据传输提供了安全的通道，保证了用户信息在互联网上的传输过程中不被窃听或篡改。

因此，开发和部署时，必须确保服务器支持并强制使用HTTPS协议。

nginx.conf server的配置

1、配置服务器地址和端口

```
# 配置服务器ip地址
set $dispatch_server_ip 'https://120.xx.xxx.xx:443'; // 配置为应急指挥调度平台所在的ip地址和端口
```

2、允许头部使用下划线

```
# 允许头部使用下划线的
underscores_in_headers on;
```

nginx.conf location的配置

请求接口的代理配置

```
# 请求接口代理
location /api/v2 {
    proxy_ssl_verify    off;
    proxy_redirect      off;
    proxy_set_header    Host              $host;
    proxy_set_header    X-Real-IP         $remote_addr;
    proxy_set_header    X-Forwarded-For   $proxy_add_x_forwarded_for;
    proxy_pass $dispatch_server_ip;
}
```

事件上报的代理配置

```
1   # 事件上报代理
2   location /socket.io {
3       proxy_ssl_verify   off;
4       proxy_set_header   Upgrade          $http_upgrade;
5       proxy_set_header   Connection       "upgrade";
6       proxy_http_version 1.1;
7       proxy_pass $dispatch_server_ip;
8   }
```

WebRTC的代理配置

```
1   # webrtc代理
2   location /webrtcMedia {
3       proxy_ssl_verify   off;
4       proxy_set_header   Upgrade          $http_upgrade;
5       proxy_set_header   Connection       "upgrade";
6       proxy_http_version 1.1;
7       proxy_pass $dispatch_server_ip;
8   }
```

视频播放的代理配置

```
1   # 视频播放代理
2   location /rtspplay {
3       proxy_ssl_verify   off;
4       proxy_set_header   Upgrade          $http_upgrade;
5       proxy_set_header   Connection       "upgrade";
6       proxy_http_version 1.1;
7       proxy_pass $dispatch_server_ip;
8   }
```

SSE的代理配置【可选】

```
1    # SSE代理
2    location /stream {
3        proxy_ssl_verify   off;
4        proxy_set_header   Host             $host;
5        proxy_set_header   Upgrade          $http_upgrade;
6        proxy_set_header   Connection       "upgrade";
7        proxy_set_header   X-Real-IP        $remote_addr;
8        proxy_set_header   X-Forwarded-For  $proxy_add_x_forwarded_for;
9        proxy_set_header   X-Forwarded-Proto $scheme;
10       proxy_cache                         off;
11       proxy_buffering                     off;
12       proxy_http_version                  1.1;
```

```
13      chunked_transfer_encoding            off;
14      proxy_pass $dispatch_server_ip;
15  }
```

nginx.conf配置demo

```
1   # 应急指挥调度系统Nginx代理配置
2   server {
3       listen          2443 ssl; # 监听的端口
4       server_name  localhost;
5
6       ssl_certificate              192.168.1.200.pem; # 自签证书
7       ssl_certificate_key          192.168.1.200.key; # 自签证书
8
9       ssl_session_cache            shared:SSL:1m;
10      ssl_session_timeout          5m;
11      ssl_ciphers                  HIGH:!aNULL:!MD5;
12      ssl_prefer_server_ciphers  on;
13
14      # 允许头部使用下划线的
15      underscores_in_headers on;
16
17      # 配置服务器ip地址和端口
18      set $dispatch_server_ip 'https://120.xx.xxx.xxx:443';
19
20      # 页面demo
21      location /demo {
22          alias   html;
23          index  index.html index.htm;
24      }
25
26      # 请求接口代理
27      location /api/v2 {
28          proxy_ssl_verify   off;
29          proxy_redirect     off;
30          proxy_set_header   Host            $host;
31          proxy_set_header   X-Real-IP       $remote_addr;
32          proxy_set_header   X-Forwarded-For  $proxy_add_x_forwarded_for;
33          proxy_pass $dispatch_server_ip;
34      }
35
36      # 事件上报代理
37      location /socket.io {
38          proxy_ssl_verify   off;
39          proxy_set_header   Upgrade         $http_upgrade;
40          proxy_set_header   Connection      "upgrade";
41          proxy_http_version 1.1;
42          proxy_pass $dispatch_server_ip;
43      }
44
45      # webrtc代理
```

```
46      location /webrtcMedia {
47          proxy_ssl_verify   off;
48          proxy_set_header   Upgrade          $http_upgrade;
49          proxy_set_header   Connection       "upgrade";
50          proxy_http_version 1.1;
51          proxy_pass $dispatch_server_ip;
52      }
53
54      # 视频播放代理
55      location /rtspplay {
56          proxy_ssl_verify   off;
57          proxy_set_header   Upgrade          $http_upgrade;
58          proxy_set_header   Connection       "upgrade";
59          proxy_http_version 1.1;
60          proxy_pass $dispatch_server_ip;
61      }
62
63      # SSE代理
64      location /stream {
65          proxy_ssl_verify   off;
66          proxy_set_header   Host             $host;
67          proxy_set_header   Upgrade          $http_upgrade;
68          proxy_set_header   Connection       "upgrade";
69          proxy_set_header   X-Real-IP        $remote_addr;
70          proxy_set_header   X-Forwarded-For  $proxy_add_x_forwarded_for;
71          proxy_set_header   X-Forwarded-Proto $scheme;
72          proxy_cache                         off;
73          proxy_buffering                     off;
74          proxy_http_version                  1.1;
75          chunked_transfer_encoding           off;
76          proxy_pass $dispatch_server_ip;
77      }
78
79  }
```

dispatch-sdk.js的初始化配置

详情请看 `demo/html/assets/index.js`

```
1  var serverAddr = "https://192.168.1.10:2443"; # 配置nginx配置的服务器和端口
2
3  //创建sdk客户端
4  var client = DispRTC.createClient({
5      proxy: true, // 是否为代理服务器
6      server: serverAddr, // 服务器地址
7      token: token, //token = JSON.parse(sessionStorage.getItem("DispRTC-token")).content; sdk的token
8  });
```