霍義教你如何使用Nginx+v2ray部署https安全的科学上网

1.域名解析

```
1.服务器先进行域名解析.
2.域名购买SSL安全证书.
```

2.脚本部署v2ray

```
#脚本地址
https://3fhash.cn/tools/VPS/v2ray-hy.sh
```

```
#部署脚本
1.安装部署第一个模块[TCP].
2.端口自行绑定,切记安全组一定要开放此端口.
```

3.重写配置文件

```
#原配置文件地址
/etc/v2ray/config.json
#删除旧配置文件下载新配置文件
cd /etc/v2ray && mv config.json config.json.bak && wget https://3fhash.cn/tools/Nginx%2Bv2r/config.json
```

4.修改v2ray.service启动文件

```
#修改v2ray.service启动文件
mv /lib/systemd/system/v2ray.service /lib/systemd/system/v2ray.service.bak
cd /etc/systemd/system/ && wget https://3fhash.cn/tools/Nginx%2Bv2r/v2ray.service
```

5.安装Nginx并且编写配置文件

5.1 安装Nginx

```
#安装Nginx
yum -y install nginx
#启动Nginx
systemctl start nginx
systemctl enable nginx
systemctl status nginx
```

5.2 编写访问配置文件

```
vim web.conf
server {
    listen 80;
    server_name xx.xx.com;     #域名信息
    return 301 https://$server_name$request_uri;
}

server {
    listen 443 ssl http2;
    #listen 4443;
    server_name xx.xx.com;     #域名信息
    charset utf-8;

    # ssl配置
    ssl_protocols TLSv1.1 TLSv1.2;
    ssl_ciphers ECDHE-RSA-AES128-GCM-SHA256:ECDHE:ECDH:AES:HIGH:!NULL:!aNULL:!MD5:!ADH:!RC4;
    ssl_ecdh_curve secp384r1;
    ssl_prefer_server_ciphers on;
    ssl_session_cache shared:SSL:10m;
    ssl_session_timeout 10m;
    ssl_session_tickets off;
    ssl_certificate /usr/share/nginx/ssl/xx.xx.compem;        #证书pem文件
    ssl_certificate_key /usr/share/nginx/ssl/xx.xx.com.key;    #证书key文件

    root /usr/share/nginx/html;
        location = /robots.txt {}

    location / {
      proxy_redirect off;
      proxy_pass http://127.0.0.1:30046;    #这里填写v2ray绑定的端口信息
      proxy_http_version 1.1;
      proxy_set_header Upgrade $http_upgrade;
      proxy_set_header Connection "upgrade";
      proxy_set_header Host $host;
      # Show real IP in v2ray access.log
      proxy_set_header X-Real-IP $remote_addr;
      proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    }

}
```

```
#直接下载nginx配置文件
cd /etc/nginx/conf.d && wget https://3fhash.cn/tools/Nginx%2Bv2r/web.conf
```

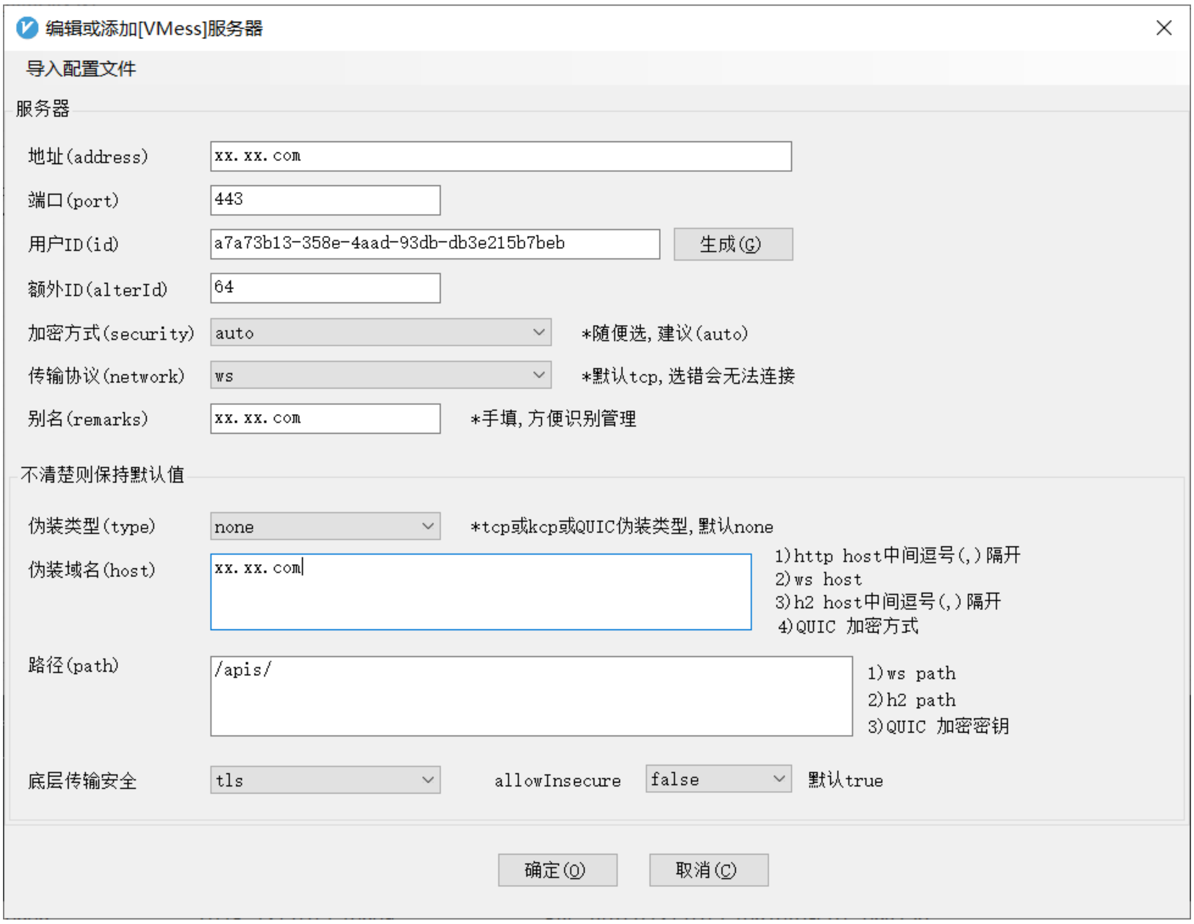
6.使用v2ray命令修改UUID

```
#命令行输入
v2ray --> 回车 --> 修改v2ray配置 --> 修改用户ID(UUID)
#把新的UUID填写到配置文件中
vim /etc/v2ray/conf.json
...
"clients": [
        {
          "id": "a7a73b13-358e-4aad-93db-db3e215b7beb",      #修改这里的UUID
          "level": 1,
          "alterId": 64
        }
...
```

7.重启v2ray

```
#重启v2ray
systemctl daemon-reload
systemctl restart v2ray.service
#查看端口是否启动
netstat -tnulp|grep v2ray
```

8.客户端配置



编辑或添加[VMess]服务器

导入配置文件

服务器

地址(address)	xx.xx.com	
端口(port)	443	
用户ID(id)	a7a73b13-358e-4aad-93db-db3e215b7beb	生成(G)
额外ID(alterId)	64	
加密方式(security)	auto	*随便选，建议(auto)
传输协议(network)	ws	*默认tcp，选错会无法连接
别名(remarks)	xx.xx.com	*手填，方便识别管理

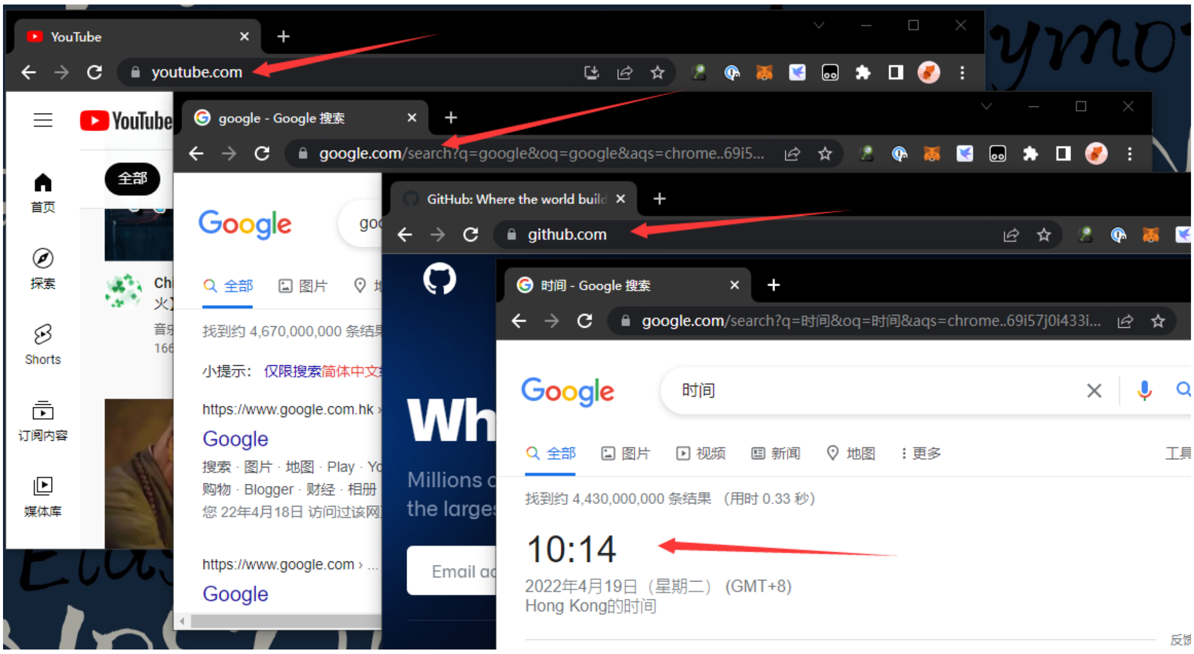
不清楚则保持默认值

伪装类型(type)	none	*tcp或kcp或QUIC伪装类型，默认none
伪装域名(host)	xx.xx.com	1)http host中间逗号(,)隔开 2)ws host 3)h2 host中间逗号(,)隔开 4)QUIC 加密方式
路径(path)	/apis/	1)ws path 2)h2 path 3)QUIC 加密密钥
底层传输安全	tls	allowInsecure false 默认true

```
#客户端
客户端启用此服务器并且开启PAC模式
```

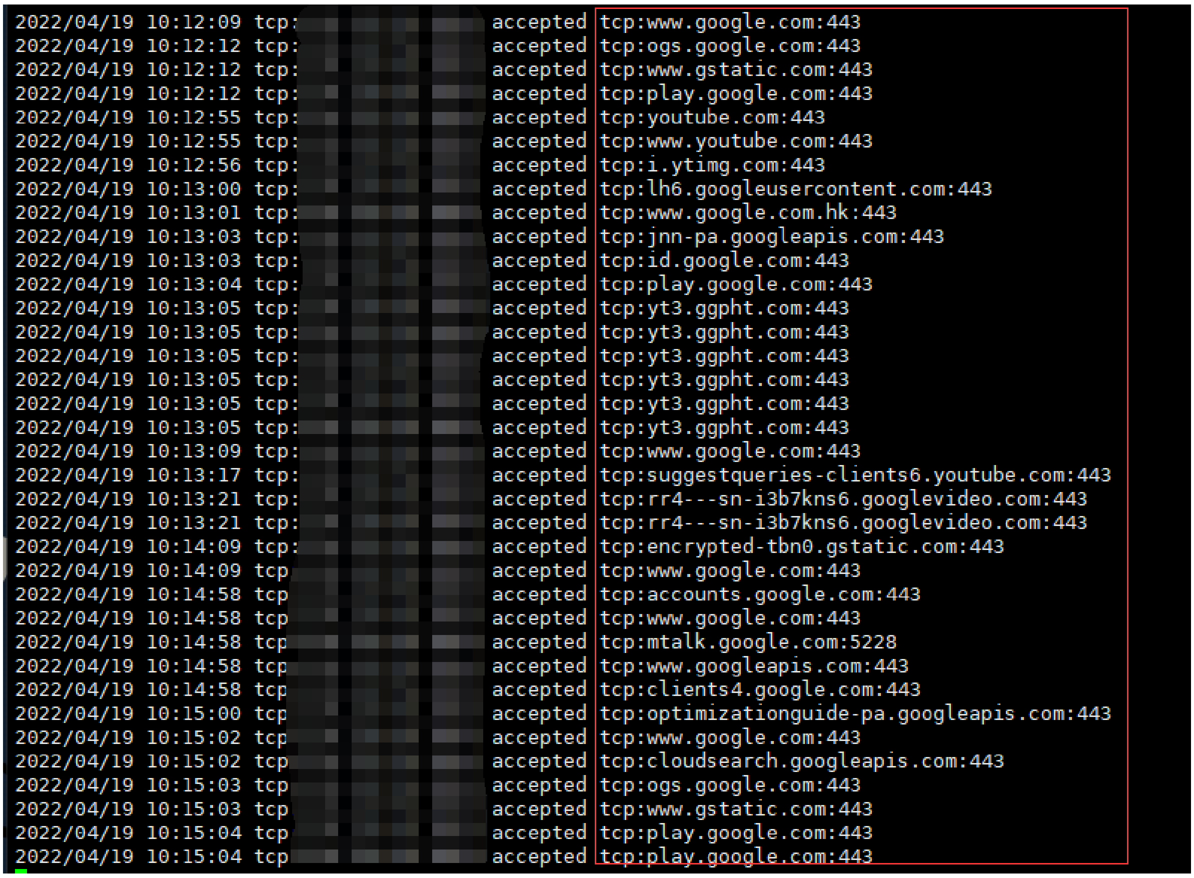
9.访问测试

```
#客户端
客户端进行访问Google/YouTube/GitHub
```



YouTube
youtube.com
google - Google 搜索
google.com/search?q=google&oq=google&aqs=chrome..69i5...
GitHub: Where the world build
github.com
时间 - Google 搜索
google.com/search?q=时间&oq=时间&aqs=chrome..69i57j0i433i...
首页
探索
Shorts
订阅内容
媒体库
全部
Google
全部 图片
找到约 4,670,000,000 条结果
小提示： 仅限搜索简体中文
https://www.google.com.hk
Google
搜索 · 图片 · 地图 · Play · Yo
购物 · Blogger · 财经 · 相册
您 22年4月18日 访问过该网
https://www.google.com
Google
Wh
Millions o
the larges
Email ad
Google
时间
全部 图片 视频 新闻 地图 更多 工具
找到约 4,430,000,000 条结果 （用时 0.33 秒）
10:14
2022年4月19日（星期二） (GMT+8)
Hong Kong的时间
反馈

```
#服务器端
使用v2ray log命令监听访问日志
```



```
2022/04/19 10:12:09 tcp:[redacted] accepted tcp:www.google.com:443
2022/04/19 10:12:12 tcp:[redacted] accepted tcp:ogs.google.com:443
2022/04/19 10:12:12 tcp:[redacted] accepted tcp:www.gstatic.com:443
2022/04/19 10:12:12 tcp:[redacted] accepted tcp:play.google.com:443
2022/04/19 10:12:55 tcp:[redacted] accepted tcp:youtube.com:443
2022/04/19 10:12:55 tcp:[redacted] accepted tcp:www.youtube.com:443
2022/04/19 10:12:56 tcp:[redacted] accepted tcp:i.ytimg.com:443
2022/04/19 10:13:00 tcp:[redacted] accepted tcp:lh6.googleusercontent.com:443
2022/04/19 10:13:01 tcp:[redacted] accepted tcp:www.google.com.hk:443
2022/04/19 10:13:03 tcp:[redacted] accepted tcp:jnn-pa.googleapis.com:443
2022/04/19 10:13:03 tcp:[redacted] accepted tcp:id.google.com:443
2022/04/19 10:13:04 tcp:[redacted] accepted tcp:play.google.com:443
2022/04/19 10:13:05 tcp:[redacted] accepted tcp:yt3.ggpht.com:443
2022/04/19 10:13:05 tcp:[redacted] accepted tcp:yt3.ggpht.com:443
2022/04/19 10:13:05 tcp:[redacted] accepted tcp:yt3.ggpht.com:443
2022/04/19 10:13:05 tcp:[redacted] accepted tcp:yt3.ggpht.com:443
2022/04/19 10:13:05 tcp:[redacted] accepted tcp:yt3.ggpht.com:443
2022/04/19 10:13:05 tcp:[redacted] accepted tcp:yt3.ggpht.com:443
2022/04/19 10:13:09 tcp:[redacted] accepted tcp:www.google.com:443
2022/04/19 10:13:17 tcp:[redacted] accepted tcp:suggestqueries-clients6.youtube.com:443
2022/04/19 10:13:21 tcp:[redacted] accepted tcp:rr4---sn-i3b7kns6.googlevideo.com:443
2022/04/19 10:13:21 tcp:[redacted] accepted tcp:rr4---sn-i3b7kns6.googlevideo.com:443
2022/04/19 10:14:09 tcp:[redacted] accepted tcp:encrypted-tbn0.gstatic.com:443
2022/04/19 10:14:09 tcp[redacted] accepted tcp:www.google.com:443
2022/04/19 10:14:58 tcp[redacted] accepted tcp:accounts.google.com:443
2022/04/19 10:14:58 tcp[redacted] accepted tcp:www.google.com:443
2022/04/19 10:14:58 tcp[redacted] accepted tcp:mtalk.google.com:5228
2022/04/19 10:14:58 tcp[redacted] accepted tcp:www.googleapis.com:443
2022/04/19 10:14:58 tcp[redacted] accepted tcp:clients4.google.com:443
2022/04/19 10:15:00 tcp[redacted] accepted tcp:optimizationguide-pa.googleapis.com:443
2022/04/19 10:15:02 tcp[redacted] accepted tcp:www.google.com:443
2022/04/19 10:15:02 tcp[redacted] accepted tcp:cloudsearch.googleapis.com:443
2022/04/19 10:15:03 tcp[redacted] accepted tcp:ogs.google.com:443
2022/04/19 10:15:03 tcp[redacted] accepted tcp:www.gstatic.com:443
2022/04/19 10:15:04 tcp[redacted] accepted tcp:play.google.com:443
2022/04/19 10:15:04 tcp[redacted] accepted tcp:play.google.com:443
```

10.总结

```
1.查看最后日志发现都是443访问.
2.日志中没有出现错误或者是解密失败等提示说明已经成功了.
3.这种方式不容易封禁端口,但是操作比较繁琐.
4.科学上网,只可学习不可乱搞.
```