

# 服务器购买与配置

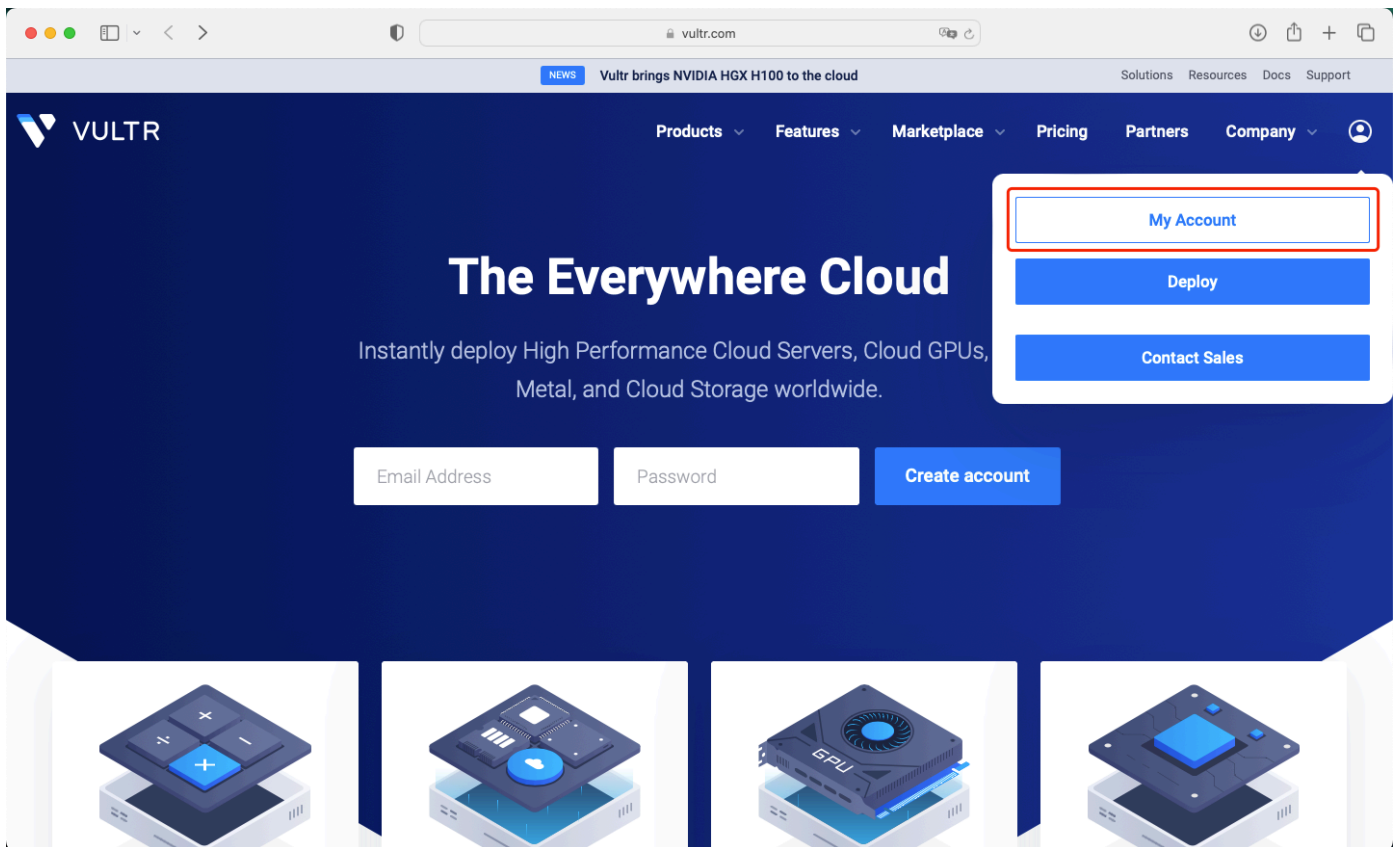
看了好几个教程，总感觉讲得不够清楚，一头雾水。虽然本科上过计网但啥都没学到，这样的教程可能不适合我等非科班选手。所以，打算自己记录和分享一下自己的历程。仅供参考～

## 引言

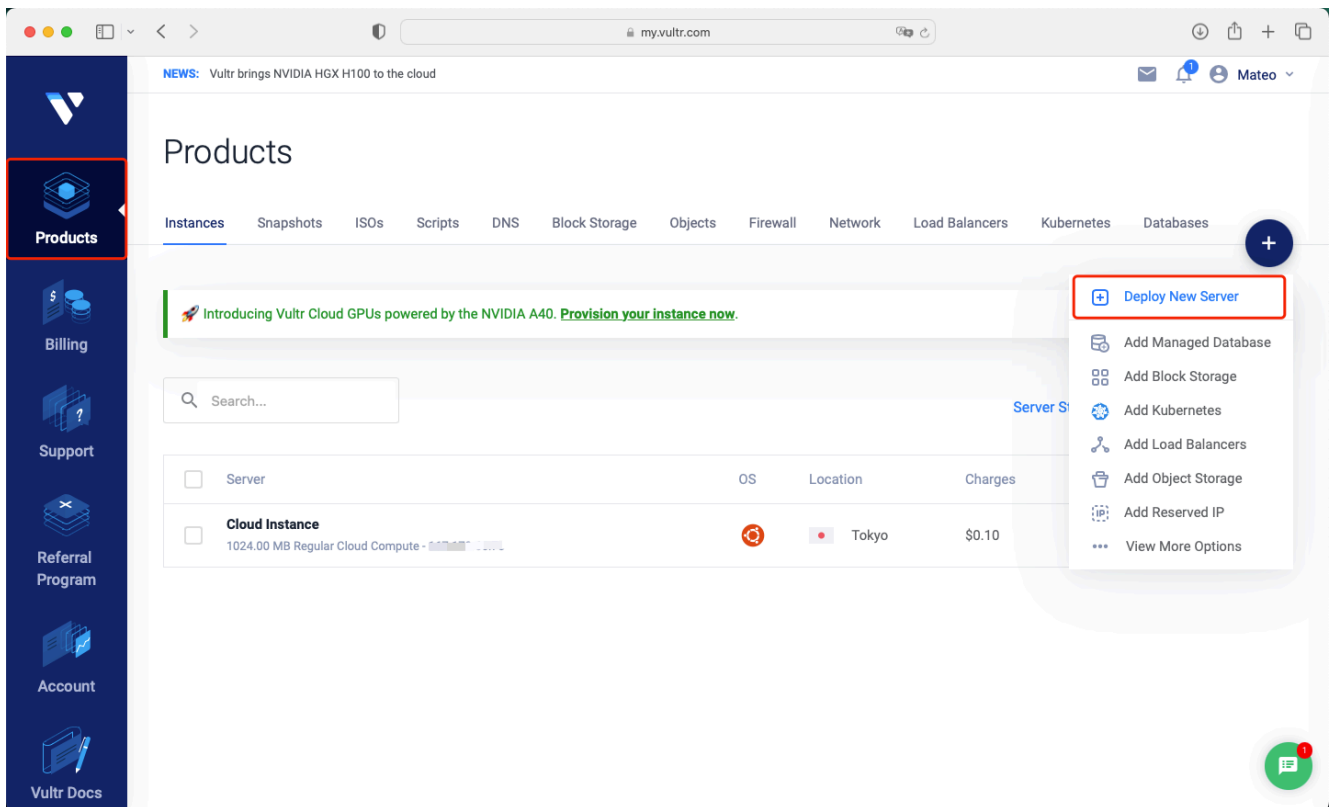
- 适用对象（参考作者背景）
  - 纯新手 / 搞不懂各种网络协议
- 个人需求和目的
  - 科学上网 / 搭梯子 / 建个人网站 / 随便玩玩 / 一直用现成VPN，想有自己的服务器有更多玩法 etc.

## 服务器购买

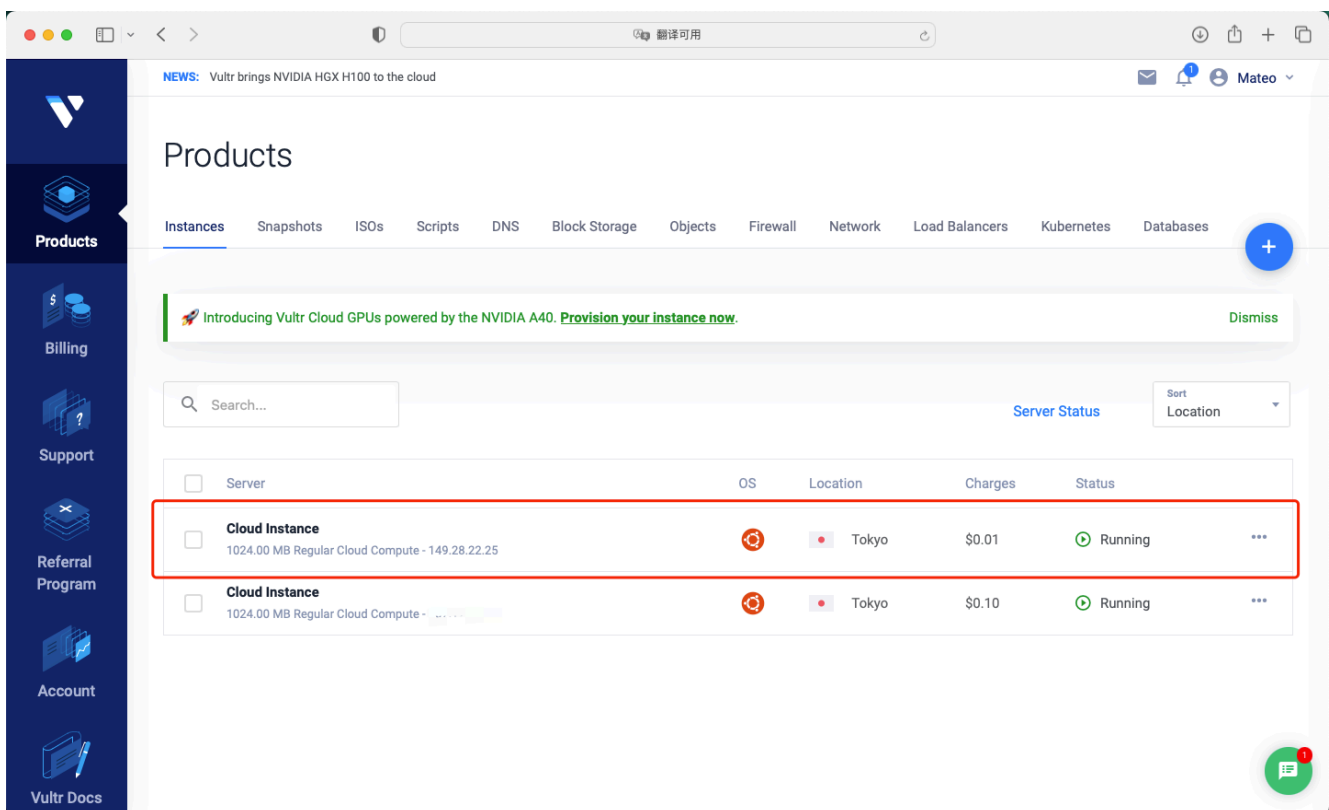
0. 明确一点：别老想着找免费服务器白嫖了，花点钱收获方便、稳定、安全
1. 服务器供应商选择：需要海外服务器，使用Vultr，打开官网<https://www.vultr.com>
2. 注册账号：用邮箱注册一个账号，然后登陆后点击右上角个人头像的**My Account**



3. 充值：点击左边的Billing，然后用Alipay支付宝充值就行（刚开始充10美元即可）
4. 部署：充值完后就可以开始定制自己的服务器了
  - 点击左边**Products**，然后右边**+**号，点击**Deploy New Server**



- 配置自己选择即可（怎么便宜怎么来），注意系统选择 **Ubuntu 22.10 x64**，节点选离自己近的
- 然后点击右下角 **Deploy Now**
- **Status** 由 **Installing** 变为 **Running** 后，就可以 ping 通，再等待几分钟系统初始化后即可 ssh 连接（下面这个为具体例子）



NEWS: Vultr brings NVIDIA HGX H100 to the cloud

## Server Information

149.28.22.25 Tokyo Created 4 minutes ago

[Add Tag +](#)

Overview Usage Graphs Settings Snapshots Backups User-Data Tags DDOS

Please note: Your server may still be finishing installing and booting up during the first few minutes of activation. If the server does not ping, you can [view the console](#) to monitor progress.

Bandwidth Usage  
**0GB**

vCPU Usage  
--

Current Charges  
**\$0.01**

Location: Tokyo

IP Address: 149.28.22.25

IPv6 Address: 2001:19f0:7001:4166:5400:4ff:fe5f:a309

Username: root

Password: .....

vCPU/s: 1 vCPU

RAM: 1024.00 MB

Storage: 25 GB SSD

Bandwidth: 0 GB

Label: [\[Click here to set\]](#)

OS: Ubuntu 22.10 x64

Vultr Docs

终端 ssh 连接（作者本地电脑为Mac）

```
root@vultr: ~  
Last login: Thu Mar 30 12:09:38 on ttys001  
(base) ➔ ssh root@149.28.22.25  
The authenticity of host '149.28.22.25 (149.28.22.25)' can't be established.  
ED25519 key fingerprint is SHA256:FUvcYpM/cl3RFItqBMs/ZlJc8+ftjbvdV0LDqHXFPQk.  
This key is not known by any other names  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '149.28.22.25' (ED25519) to the list of known hosts.  
root@149.28.22.25's password:   
Welcome to Ubuntu 22.10 (GNU/Linux 5.19.0-29-generic x86_64)  
  
* Documentation: https://help.ubuntu.com  
* Management: https://landscape.canonical.com  
* Support: https://ubuntu.com/advantage  
  
System information as of Thu Mar 30 04:15:14 AM UTC 2023  
  
System load: 0.7001953125  
Usage of /: 33.6% of 23.34GB  
Memory usage: 32%  
Swap usage: 0%  
Processes: 139  
Users logged in: 0  
IPv4 address for enp1s0: 149.28.22.25  
IPv6 address for enp1s0: 2001:19f0:7001:4166:5400:4ff:fe5f:a309  
  
0 updates can be applied immediately.  
  
*** System restart required ***  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
root@vultr:~#
```

## 服务器与本地电脑配置

### 1. 服务器端配置

- 安装shadowsocks: `apt install shadowsocks-libev`, 输入 `y` 后一路回车, 完成后查看运行状态, 显示running即可

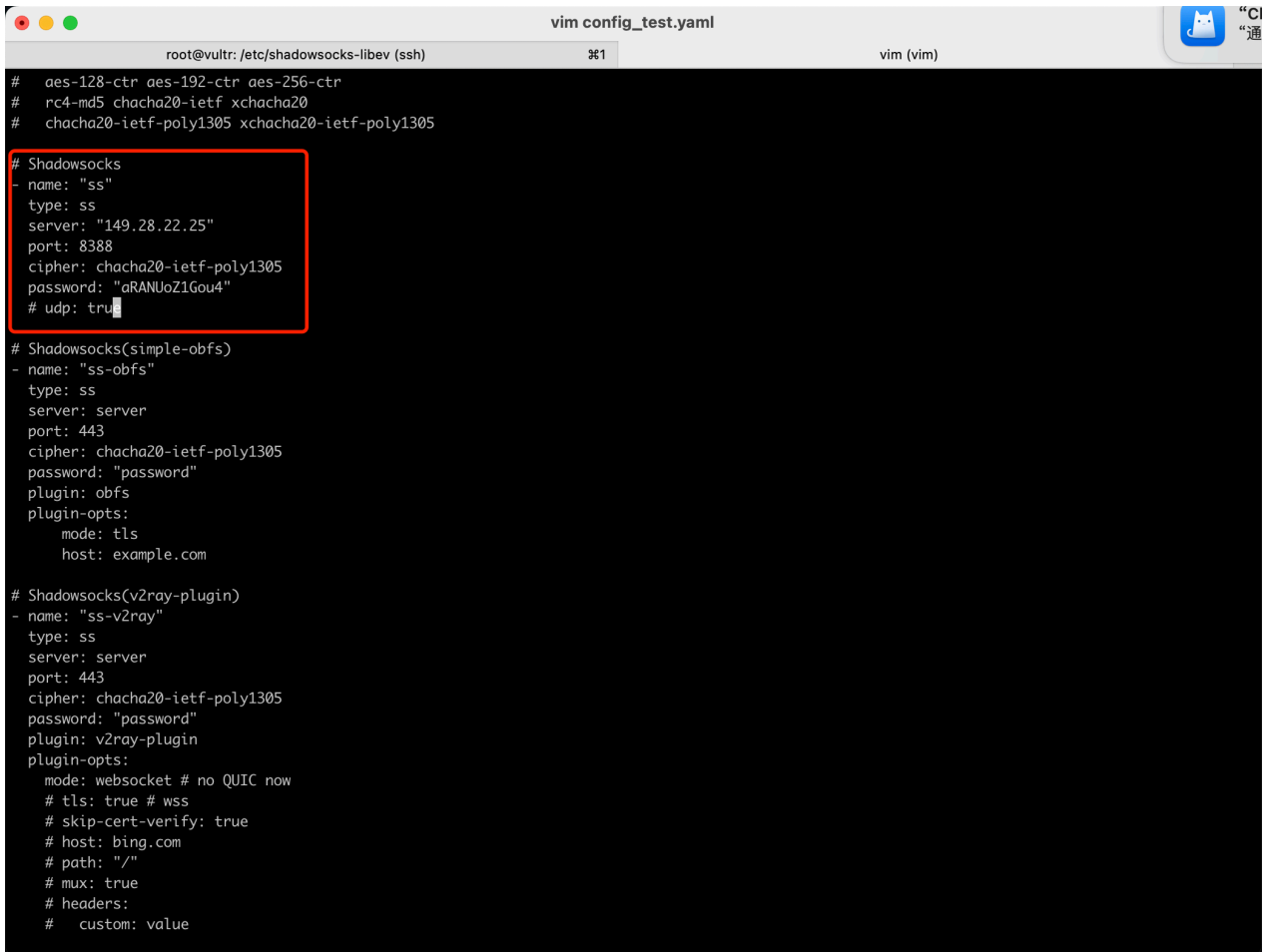
```
root@vultr: ~  
Processing triggers for libc-bin (2.36-0ubuntu4) ...  
Processing triggers for man-db (2.10.2-2) ...  
Scanning processes...  
Scanning candidates...  
Scanning processor microcode...  
Scanning linux images...  
  
Failed to check for processor microcode upgrades.  
  
Restarting services...  
systemctl restart cloud-init-log-reader.service cron.service fwupd.service multipathd.service packagekit.service polkit.service rsyslog.service ud  
isks2.service upower.service  
Service restarts being deferred:  
systemctl restart ModemManager.service  
/etc/needrestart/restart.d/dbus.service  
systemctl restart systemd-logind.service  
systemctl restart unattended-upgrades.service  
  
No containers need to be restarted.  
  
No user sessions are running outdated binaries.  
  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
root@vultr:~# systemctl status shadowsocks-libev.service  
● shadowsocks-libev.service - Shadowsocks-libev Default Server Service  
   Loaded: loaded (/lib/systemd/system/shadowsocks-libev.service; enabled; preset: enabled)  
   Active: active (running) since Thu 2023-03-30 04:22:19 UTC; 1min 4s ago  
     Docs: man:shadowsocks-libev(8)  
  Main PID: 37901 (ss-server)  
    Tasks: 1 (limit: 1020)  
  Memory: 964.0K  
    CPU: 16ms  
   CGroup: /system.slice/shadowsocks-libev.service  
           └─37901 /usr/bin/ss-server -c /etc/shadowsocks-libev/config.json  
  
Mar 30 04:22:19 vultr systemd[1]: Started Shadowsocks-libev Default Server Service.  
Mar 30 04:22:19 vultr ss-server[37901]: 2023-03-30 04:22:19 INFO: UDP relay enabled  
Mar 30 04:22:19 vultr ss-server[37901]: 2023-03-30 04:22:19 INFO: initializing ciphers... chacha20-ietf-poly1305  
Mar 30 04:22:19 vultr ss-server[37901]: 2023-03-30 04:22:19 INFO: tcp server listening at [::]:8388  
Mar 30 04:22:19 vultr ss-server[37901]: 2023-03-30 04:22:19 INFO: tcp server listening at 127.0.0.1:8388  
Mar 30 04:22:19 vultr ss-server[37901]: 2023-03-30 04:22:19 INFO: udp server listening at [::]:8388  
Mar 30 04:22:19 vultr ss-server[37901]: 2023-03-30 04:22:19 INFO: udp server listening at 127.0.0.1:8388  
root@vultr:~#
```

- 到目录 `cd /etc/shadowsocks-libev`, 编辑配置文件 `vim config.json`
- 更改server为["0.0.0.0"]
- 其他不用变 (server\_port和local\_port随意, 按默认设置也可以)
- 打开对应端口 `ufw allow 8388`, 再查看端口是否打开 `ufw status`
- 重启shadowsocks: `systemctl restart shadowsocks-libev.service`
- 并确认其状态显示为running, 且端口正确: `systemctl status shadowsocks-libev.service`

### 2. 本地电脑配置

- 下载并安装ClashX: <https://github.com/yichengchen/clashX> (windows等下载类似的客户端)
- 本地电脑ClashX配置文件, 新建终端
  - 进入配置文件夹 `cd /Users/YOUR-NAME/.config/clash`
  - 下载模板文件 `wget https://www.bwgss.org/wp-content/uploads/2020/11/clash_template2.yaml -O clash_template2.yaml`

- 复制一份新的配置文件 `cp clash_template2.yaml config_test.yaml`，修改如图所示内容（需要与服务器端的一致）



```
# vim config_test.yaml
root@vultr: /etc/shadowsocks-libev (ssh)
#1
vim (vim)

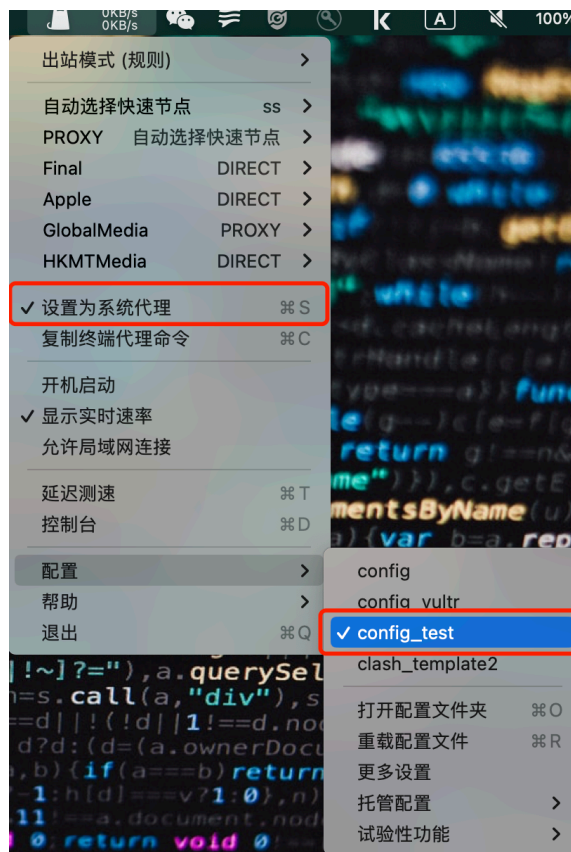
# aes-128-ctr aes-192-ctr aes-256-ctr
# rc4-md5 chacha20-ietf xchacha20
# chacha20-ietf-poly1305 xchacha20-ietf-poly1305

# Shadowsocks
- name: "ss"
  type: ss
  server: "149.28.22.25"
  port: 8388
  cipher: chacha20-ietf-poly1305
  password: "aRANUoZ1Gou4"
  # udp: true

# Shadowsocks(simple-obfs)
- name: "ss-obfs"
  type: ss
  server: server
  port: 443
  cipher: chacha20-ietf-poly1305
  password: "password"
  plugin: obfs
  plugin-opts:
    mode: tls
    host: example.com

# Shadowsocks(v2ray-plugin)
- name: "ss-v2ray"
  type: ss
  server: server
  port: 443
  cipher: chacha20-ietf-poly1305
  password: "password"
  plugin: v2ray-plugin
  plugin-opts:
    mode: websocket # no QUIC now
    # tls: true # wss
    # skip-cert-verify: true
    # host: bing.com
    # path: "/"
    # mux: true
    # headers:
    #   custom: value
```

3. 选择刚才的配置文件，然后设置为系统代理，开始科学上网（IP也变为服务器所在地）





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手气不错

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日本