

X-UI, a multi-user Xray graphical management panel (replacing V2-UI and V2Ray)

📅 2021-10-10

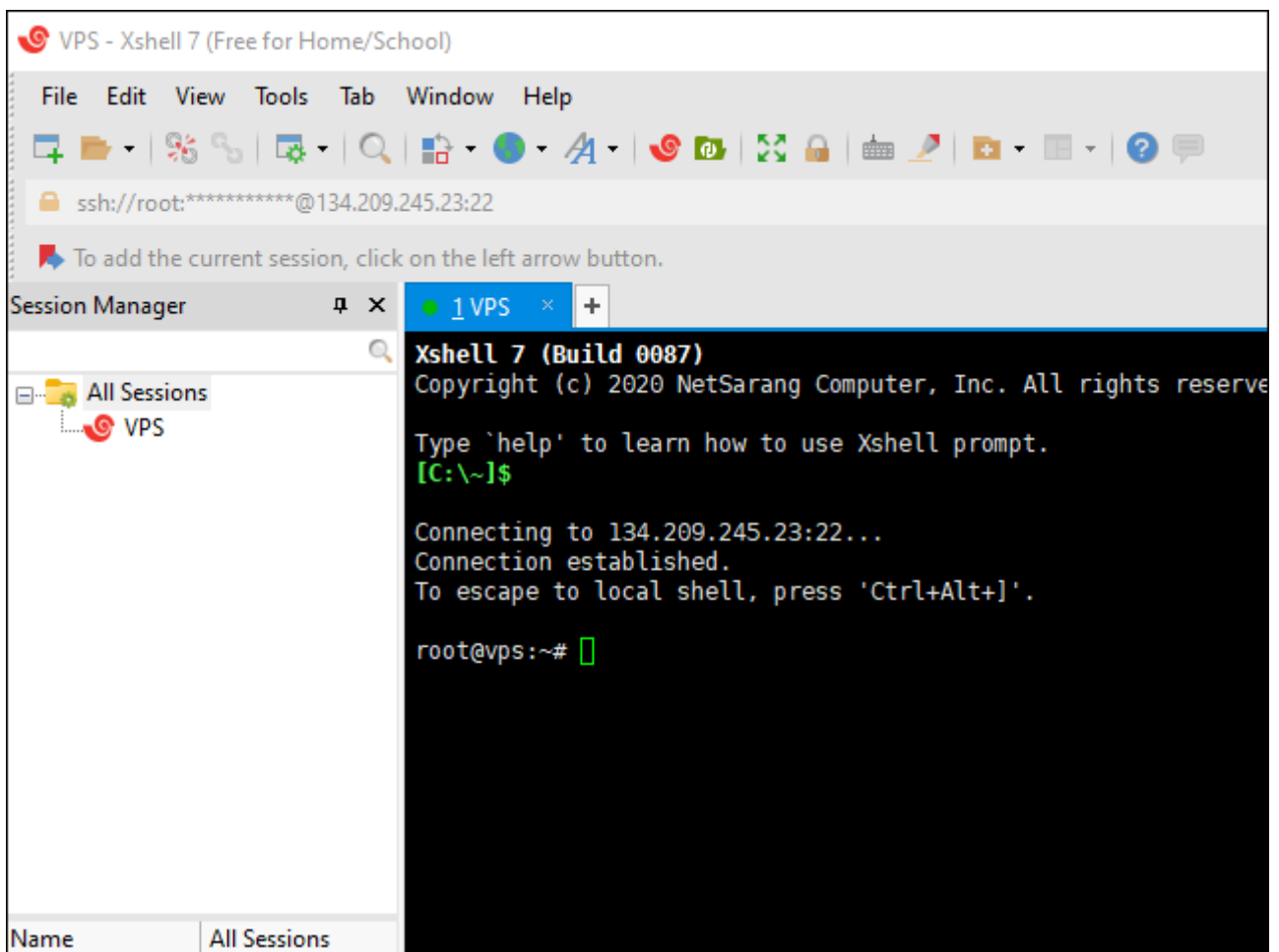
X-UI provides a graphical user interface for managing servers and users. You can visually build servers for Shadowsocks, V2ray, Xray, Trojan, and other popular protocols. You can also monitor VPS performance and traffic usage in real time. X-UI replaces the older V2-UI panel.

Preparation

Before you begin, you need to do three or four things:

1. Get a virtual private server or VPS. You can get a VPS from many providers. Some popular ones are AWS, Google Cloud, Microsoft Azure, DigitalOcean, Hetzner, and Vultr. In our example we use a Debian 11 VPS, but the X-UI install script supports Ubuntu 16+, Debian 8+, or CentOS 7+. You need to have ports 80 and 443 on your VPS open for TCP input. Also open port 54321 for TCP input.
2. Get a domain name. Some low-cost registrars are Porkbun, Namesilo, and Namecheap.
3. Create a DNS **A** record pointing from your host name to your VPS.
4. Optionally, add your domain to Cloudflare. This will allow you to insert a content distribution network or CDN in between you and your server. However, if you are going to add a CDN, do not turn on proxying in Cloudflare until the end. For now, just use the DNS features of Cloudflare. Adding your domain to Cloudflare is optional, and you can continue to use your domain name registrar's nameservers if you prefer. In any case, not all protocols support the use of CDN proxying.

SSH into your server. On Windows you can use the built-in PowerShell app, or you can install a terminal emulator such as PuTTY or XShell.



Get your server up to date:

```
1 apt update && apt upgrade -y
```

Also install `curl` and `socat`:

```
1 apt install curl socat -y
```

Install Acme Script

Download and install the Acme script for getting a free SSL certificate:

```
1 curl https://get.acme.sh | sh
```



Get Free SSL Certificate

Set the default provider to Let's Encrypt:

```
1 ~/.acme.sh/acme.sh --set-default-ca --server letsencrypt
```

Register your account for a free SSL certificate. In the next command, replace `xxxx@xxxx.com` by your actual email address:

```
1 ~/.acme.sh/acme.sh --register-account -m xxxx@xxxx.com
```

Obtain an SSL certificate. In the next command, replace `host.mydomain.com` by your actual host name:

```
1 ~/.acme.sh/acme.sh --issue -d host.mydomain.com --standalone
```

After a minute or so, the script terminates. On success, you will receive feedback as to the location of the certificate and key:

```
1 Your cert is in: /root/.acme.sh/host.mydomain.com/host.mydomain.com.cer
2 Your cert key is in: /root/.acme.sh/host.mydomain.com/host.mydomain.com.key
3 The intermediate CA cert is in: /root/.acme.sh/host.mydomain.com/ca.cer
4 And the full chain certs is there: /root/.acme.sh/host.mydomain.com/fullchain.cer
```

You cannot use the certificate and key in their current locations, as these may be temporary. Therefore install the certificate and key to a permanent location. In the next command, replace `host.mydomain.com` by your actual host name:

```
1 ~/.acme.sh/acme.sh --installcert -d host.mydomain.com --key-file /root/privat
```



```
Ly9yMy5vLmXlbnNyLm9yZzAiBggRbgEFBQcwAoYWaHR0cDovL3IzLmkubGVuY3Iu
b3JnLzAcBgNVHREEFTATghF2cHMubXlLeGFtcGxLNh5ejBMBgNVHSAERTBDMAGG
BmeBDAECATA3BgsrBgEEAYLFEwEBATAoMCYGCCsGAQUFBwIBFhpodHRwOi8vY3Bz
LmXldHNlbnNyX0M9yZzCCAQUGCisGAQQB1nkCBAIEgfYEgfMA8QB2AN+lxqto
gk8fbK3uuF90PlrqzaISpGpejjsSwCBEXCpzaAABfGe+F9EAAAQDAEcwRQIhAIW+
1DN3/Ccgmj+lx2geynHUsfQNR/aWl4EDWTKchKnDAiB7RykHKEkNzbA/Wb5T44Si
ceR2ZSc8tZg5F0eH0Gd07wB3AEa1Vet1+pEgMLWiiWn0830RLEF0vv1JuIWr8vxxw
/mlHAAABfGe+F/oAAAQDAEgwRgIhAIWLbu2jRfcTUwf2qqV72IvP5sYSHDX0RWha
lv8bKrvfAiEAvX0q+K6k/8cid+TyBqgHaq53MBufoLaY/yy4Xezdo3IwDQYJKoZI
hvcNAQELBQADggEBAG4Bp7vGN5KcBvTyT3sGHIZMEbW/AimCvgD0Ckwgsdq3XcCG
cvtPnJnsGoUHTiCUn61kEJGKqRwYLxnkWdmtxk/p+ia210yJBtPaUGXjWfRtBBdv
nGRFSBGTDLVuXSNJewelJCu5PrDz/p3HZ8XDSGT2+v8Lu2+SJ90r0I2MBS8Aiwwk
3VnBBSQtSACgh1FVGkvR5YhpnuCORXvaCXb9vwhTCj1+n3TvMedqD7DB4I+xRKBA
zVlcz12LkQ0twHEd9lhinGETbrMseqURYq3B164yoXdcEfcSs9RzjEqofglF52VE
FT0mTVXd1LpxvoL4WKMcoVlgttWPJtT8Nkd+XTQ=
-----END CERTIFICATE-----
[Sun Oct 10 01:08:04 UTC 2021] Your cert is in: /root/.acme.sh/vps.myexample.xyz/vps.myexam
er
[Sun Oct 10 01:08:04 UTC 2021] Your cert key is in: /root/.acme.sh/vps.myexample.xyz/vps.my
yz.key
[Sun Oct 10 01:08:04 UTC 2021] The intermediate CA cert is in: /root/.acme.sh/vps.myexample
er
[Sun Oct 10 01:08:04 UTC 2021] And the full chain certs is there: /root/.acme.sh/vps.myexam
ullchain.cer
root@vps:~# ~/.acme.sh/acme.sh --installcert -d vps.myexample.xyz --key-file /root/private.
lchain-file /root/cert.crt
[Sun Oct 10 01:13:08 UTC 2021] Installing key to: /root/private.key
[Sun Oct 10 01:13:08 UTC 2021] Installing full chain to: /root/cert.crt
root@vps:~# ls
cert.crt private.key
root@vps:~# █
```

Run the X-UI Install Script

Download and run the one-click install script provided by the developer:

```
1 bash <(curl -Ls https://raw.githubusercontent.com/vaxilu/x-ui/master/install
```

Common Panel Commands

From the command line, you can control the server with various commands:

Command	Effect
x-ui	Display the management menu
x-ui start	Start the X-UI panel
x-ui stop	Stop the X-UI panel
x-ui restart	Restart the X-UI panel

Command	Effect
<code>x-ui status</code>	View X-UI status
<code>x-ui enable</code>	Set X-UI to start automatically after boot
<code>x-ui disable</code>	Cancel X-UI boot from start
<code>x-ui log</code>	View X-UI log
<code>x-ui update</code>	Update the X-UI panel
<code>x-ui install</code>	Install X-UI panel
<code>x-ui uninstall</code>	Uninstall X-UI panel

First Time Login

You can get to the X-UI panel on your PC by opening a browser and typing your server IP address and port `54321` . For example:

```
1 http://123.45.67.89:54321
```

By default, the login user name is `admin` , and the password is also `admin` .



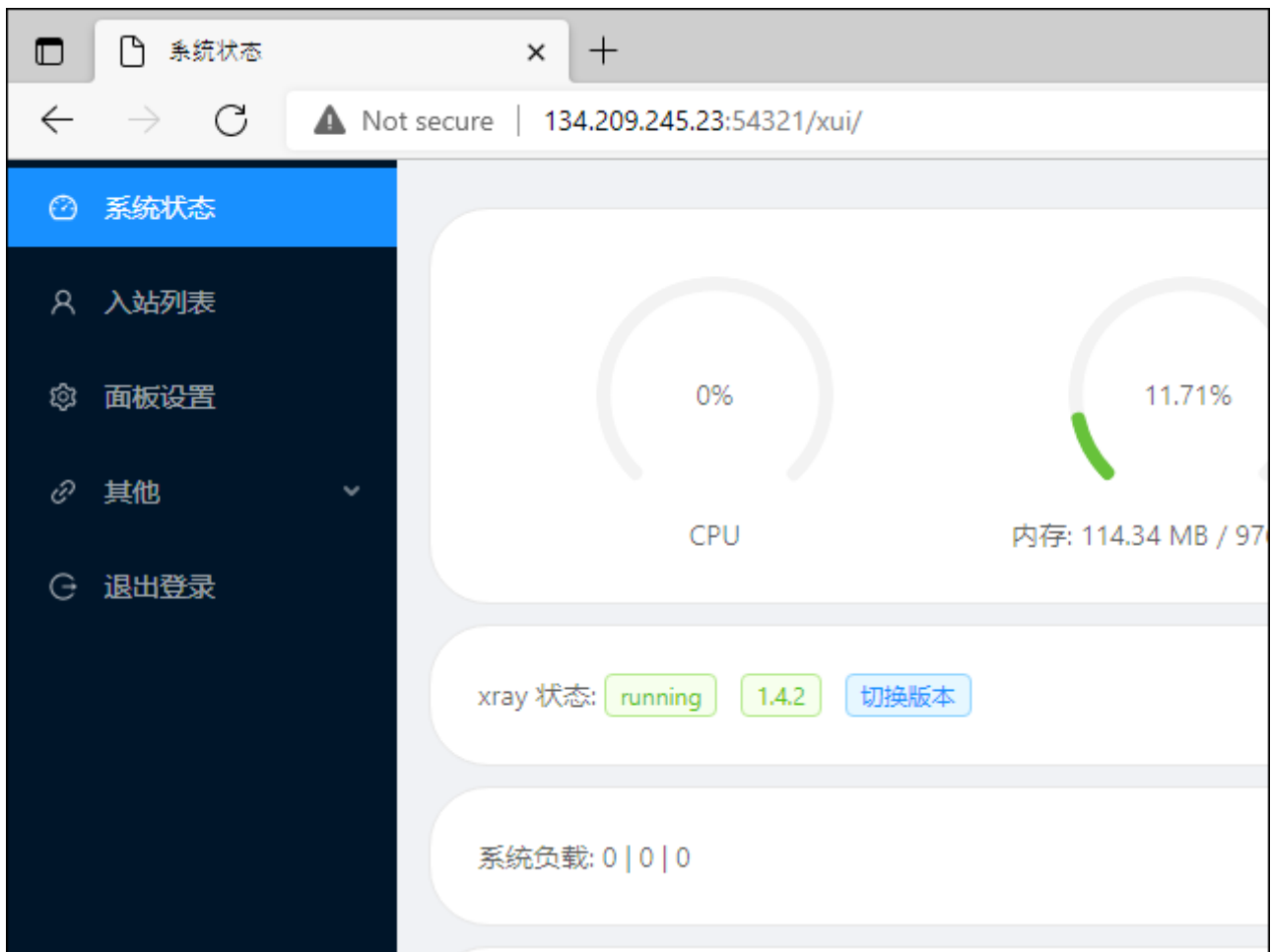


Side Menu

After you have logged in, the side menu offers these options:

Chinese	English
系统状态	System status
进站列表	Inbound list
面板设置	Panel settings
其他	Other
退出登录	Sign out





Enable HTTPS on Panel

You will notice that, at first, you used plain text HTTP to reach the panel. This is not secure.

To enable HTTPS, choose **面板设置** (Panel settings).

You will need to specify your certificate and key.

- 1 面板证书公钥文件路径
- 2 填写一个 '/' 开头的绝对路径，重启面板生效
- 3 Panel certificate public key file path
- 4 Fill in an absolute path starting with '/', restart the panel to take effect

Fill in `/root/cert.crt`.

- 1 面板证书密钥文件路径
- 2 填写一个 '/' 开头的绝对路径，重启面板生效
- 3 Panel certificate key file path
- 4 Fill in an absolute path starting with '/', restart the panel to take effect

Fill in `/root/private.key`.

面板配置	用户设置	xray 相关设置	其他设置
面板监听 IP 默认留空监听所有 IP，重启面板生效			
面板监听端口 重启面板生效			54321
面板证书公钥文件路径 填写一个 '/' 开头的绝对路径，重启面板生效			/root/cert.crt
面板证书密钥文件路径 填写一个 '/' 开头的绝对路径，重启面板生效			/root/private.key
面板 url 根路径 必须以 '/' 开头，以 '/' 结尾，重启面板生效			/

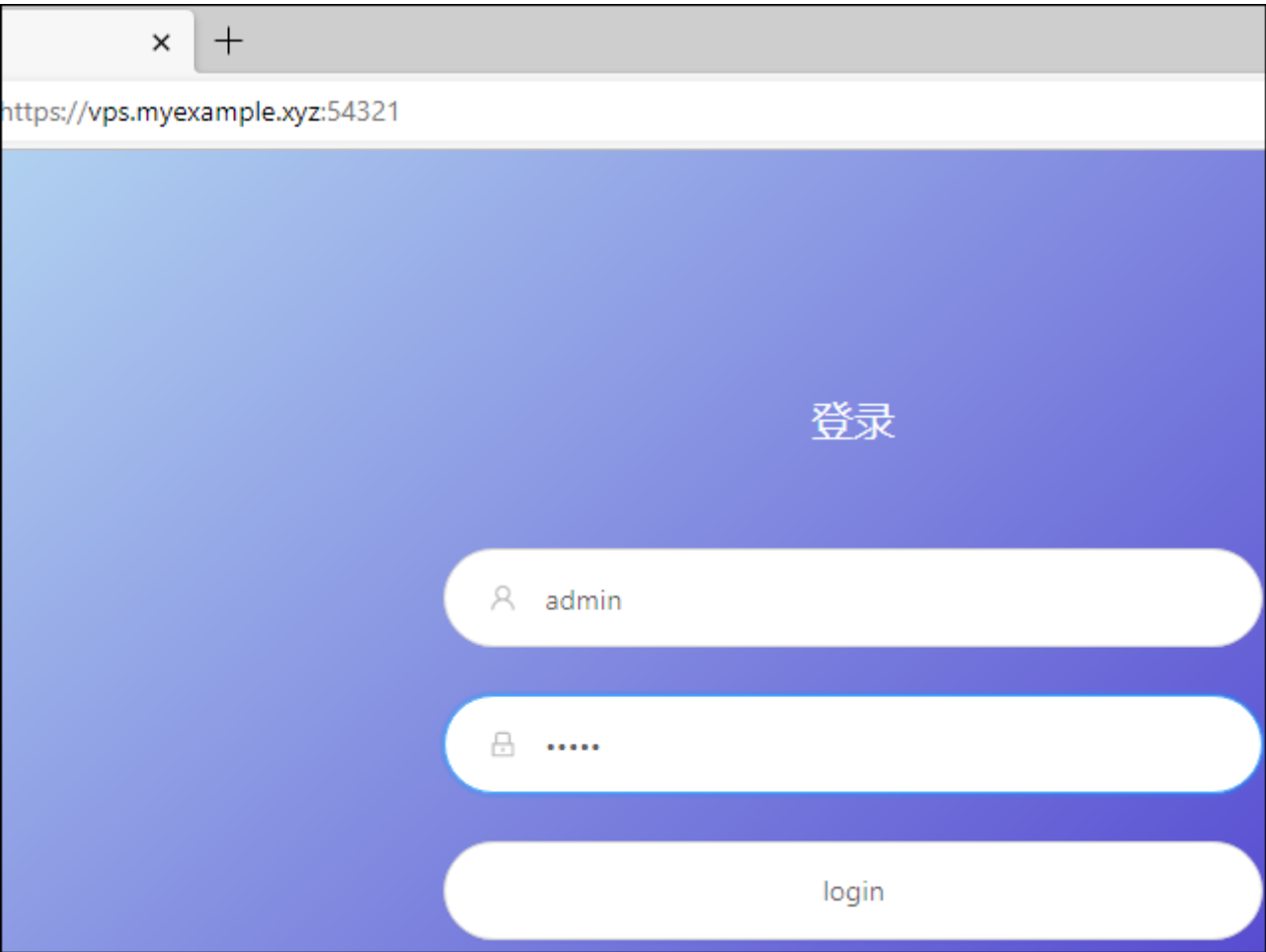
Save these options.

Now in your SSH session issue the command:

```
1 x-ui restart
```

Now you can reach the panel using HTTPS. For example:

```
1 https://host.mydomain.com:54321
```

Change Admin Password

The default admin user name `admin` and password `admin` are the same for all installations. This is not secure. Input the old values of `admin` and `admin` , and choose new, unique values:

Chinese	English
原用户名	Original user name
原密码	Old password
新用户名	New user name
新密码	New password

面板配置

用户设置

xray 相关设置

其他设置

原用户名:

admin

原密码:

.....

新用户名:

neddie

新密码:

.....|

Save the new values.

Sign out, then sign in again with the new user name and password.



Add VLESS+XTLS Xray User

We are going to add an inbound user account using VLESS and Xray. VLESS is an an updated version of the older Vmess protocol. After several developers found flaws in Vmess protocol and showed that the Vmess protocol can be detected by deep packet inspection or DPI, VLESS was developed. (Note that it is plain Vmess that can be detected; Vmess+WS+TLS is still secure and supports the use of a CDN.) Xray core was developed as an alternative to the older V2Ray core. According to the Xray developers, Xray is more stable, better for UDP gaming, and 30% faster than V2Ray. XTLS speeds up TLS by reducing double-encryption.

On the side menu, select **入站列表** (Inbound list).

Click the plus sign to add a new inbound user.

The **添加入站** (Add inbound) box appears.

Enter fields as follows.



Field	Contents
Remark	Put a unique and meaningful description
Enable	On
Protocol	vless
监听 IP Listening IP	Leave blank
端口 Port	443
总流量(GB) Total bandwidth (GB)	0 means unlimited
到期时间 Expiry date	Blank
Id	Leave the generated UUID as is
Flow	xtls-rprx-direct
Fallbacks	None
传输 Transmission	tcp
HTTP 伪装 masquerading	Off
TLS	Off
XTLS	On
域名 Domain name	Put your host name, e.g. host.mydomain.com
公钥文件路径 Public key file path	/root/cert.crt
密钥文件路径 Key file path	/root/private.key
Sniffing	On

用量: 0B

站数量: 1

+

操作

添加入站

×

remark: VPS

enable: ☒

protocol: vless

↓

监听 IP ?:

端口: 443

总流量(GB) ?:

0

到期时间 ?:

Select date

📅

id: 20a79f0e-0123-4512-873:

flow: xtls-rprx-direct

↓

fallbacks: +

传输: tcp

↓

http 伪装: ☐

tls: ☐

xtls: ☒

域名: vps.myexample.xyz

证书: certificate file path

certificate file content

公钥文件路径: /root/cert.crt

密钥文件路径: /root/private.key

sniffing ?:

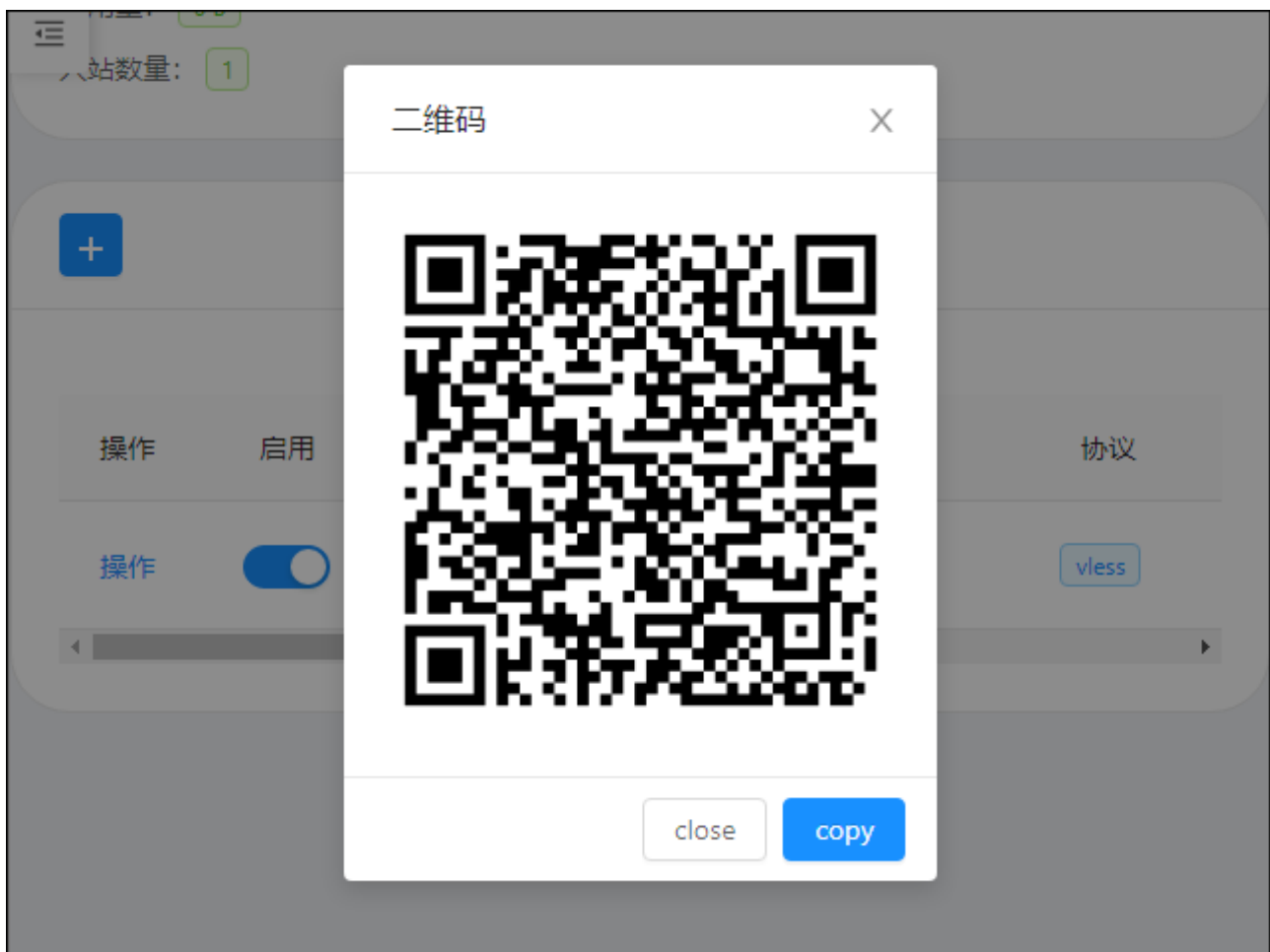
☒

close

添加

Save the new user.

Click the 操作 (operating) button at the start of its row to display the QR code for the new user.



Client

Clients are available for Android, iOS, Windows, macOS, and Linux. Examples are v2rayNG, Shadowrocket, and Qv2ray.

Add the profile in the QR code to your client.

Qv2ray

Groups

Plugins

Preferences

Search

Default Group

1 connection

VPS

Not Tested

VLESS+XTLS

0.00 B / 0.00 B

Configuration Details

Group

Default Group

Protocol

vless+xtls

Address

vps.myexample.xyz

Port

443

Link

vless://20a79f0e-0123-4512-873a-bb:

Speed Graph

0 B/s

Proxy ↑

0 B/s

Proxy ↓

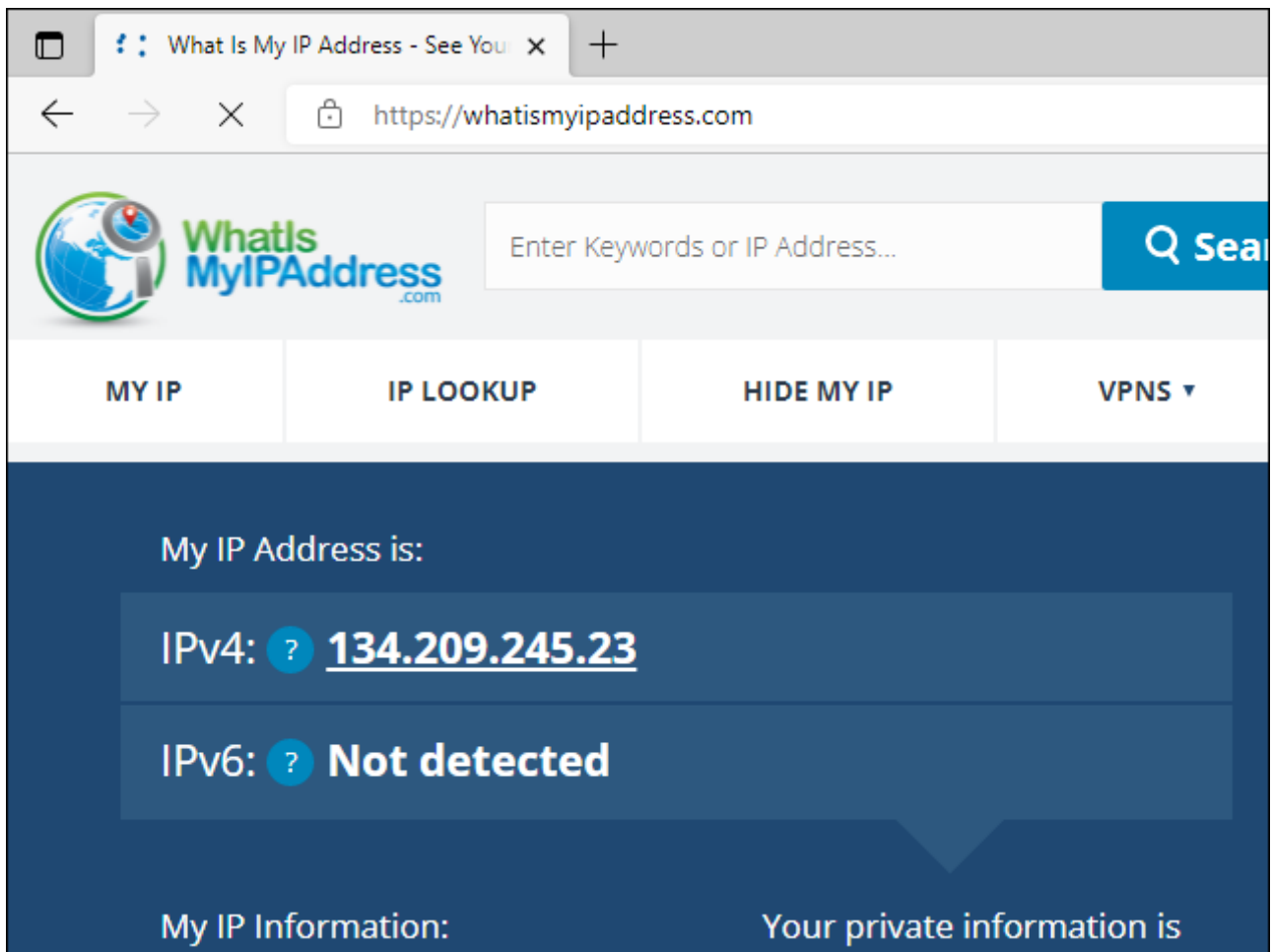
0 B/s

Direct ↑

0 B/s

Direct ↓

You can check that your connection is working by opening a browser and going to <https://whatismyipaddress.com>.



< Shadowsocks + V2Ray Plugin with Self-Signed Certificate

Windows SoftEther VPN Server >

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