

## V2rayN

### **Requirements :**

Windows 10 +

.netframework 4.7 and above

## **What is V2Ray and How to Install it**

If you're a privacy enthusiast, you may or may not have heard of V2Ray. The tool forms a core part of Project V, an effort to provide users with the software to deploy specific network environments privately.

If you're a privacy enthusiast, you may or may not have heard of V2Ray. The tool forms a core part of Project V, an effort to provide users with the software to deploy specific network environments privately.

Though V2Ray can be used for various purposes, its primary mission is to combat internet censorship. Through the use of V2Ray and its protocols, users in heavily monitored countries like China can access content that would otherwise be blocked. Today, we're going to explain the basics of V2Ray and its components, as well as how to install it.

### **What is V2Ray?**

V2Ray is the sub-section of Project V that's responsible for network protocols and communication. It draws some parallels to proxy software Shadowsocks, but is intended more of a platform, with any developers able to use the provided modules to develop new proxy software.

V2Ray and its VMess protocol were designed to improve on the performance and features of Shadowsocks and aid in detection prevention. When deploying V2Ray, you can dynamically change port, access advanced routing features, use obfuscation techniques, chain proxies, and more. Though this makes V2Ray more complicated than single proxy protocols like Shadowsocks, it means it can be used for more niche configurations and scenarios.

## How to Install V2Ray on Linux

Though its configuration can be complex, V2Ray's setup on Linux is very easy thanks to a one-command script by 233blog.com. First, perform upgrades and updates to your VPS:

```
sudo apt-get update
sudo apt-get upgrade
```

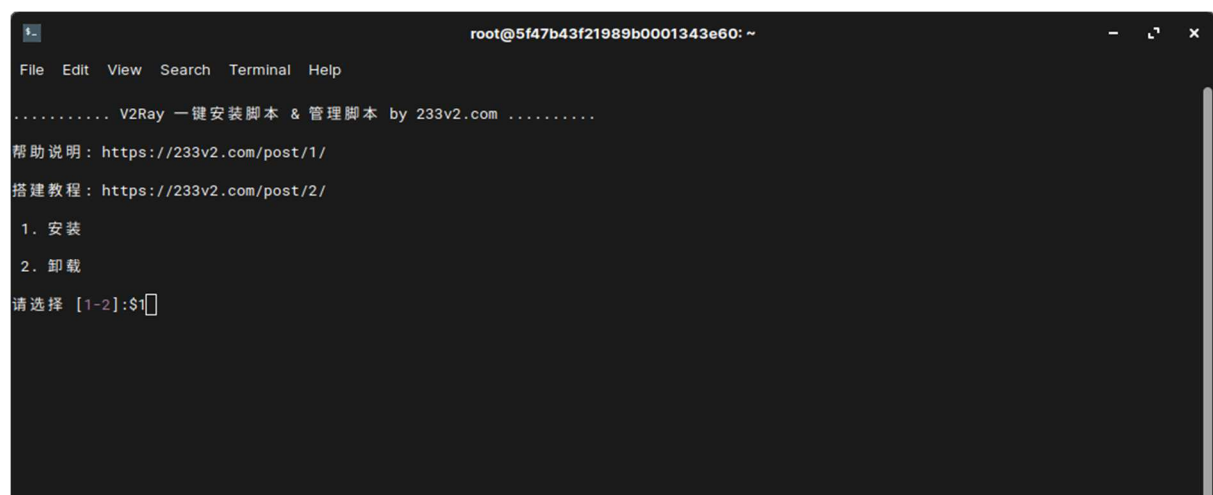
Now we can install curl (if you don't have it already) and download and run the script from GitHub:

```
sudo apt-get install curl -y
bash <(curl -s -L https://git.io/v2ray.sh)
```

The script will install the following files as it walks you through its installer:

- V2Ray executable: `/usr/bin/v2ray/v2ray`:
- Config file: `/etc/v2ray/config.json`
- Utility: `/usr/bin/v2ray/v2ctl`
- IP data file: `/usr/bin/v2ray/geoip.dat`
- Domain data file: `/usr/bin/v2ray/geosite.dat`
- 

You'll first be asked the version of V2Ray you wish to install. There aren't any major differences between 1 and 2, so just type **1** and press **Enter**.



```
root@5f47b43f21989b0001343e60: ~
File Edit View Search Terminal Help
..... V2Ray 一键安装脚本 & 管理脚本 by 233v2.com .....
帮助说明: https://233v2.com/post/1/
搭建教程: https://233v2.com/post/2/
1. 安装
2. 卸载
请选择 [1-2]: 1
```

You'll be asked to choose the protocol. We'll have a short explanation of protocol options below, but for now, just choose TCP for simplicity by pressing **1** and then **Enter**.

```
root@5f47b43f21989b0001343e60: ~  
File Edit View Search Terminal Help  
17. QUIC_wireguard  
18. TCP_dynamicPort  
19. TCP_HTTP_dynamicPort  
20. WebSocket_dynamicPort  
21. mKCP_dynamicPort  
22. mKCP_utp_dynamicPort  
23. mKCP_srtp_dynamicPort  
24. mKCP_wechat-video_dynamicPort  
25. mKCP_dtls_dynamicPort  
26. mKCP_wireguard_dynamicPort  
27. QUIC_dynamicPort  
28. QUIC_utp_dynamicPort  
29. QUIC_srtp_dynamicPort  
30. QUIC_wechat-video_dynamicPort  
31. QUIC_dtls_dynamicPort  
32. QUIC_wireguard_dynamicPort  
  
备注1: 含有 [dynamicPort] 的即启用动态端口..  
备注2: [utp | srtp | wechat-video | dtls | wireguard] 分别伪装成 [BT下载 | 视频通话 | 微信视频通话 | DTLS 1.2 数据包 | WireGuard 数据包]  
  
(默认协议: TCP):1
```

V2Ray will now pose the following question:

请输入 V2Ray 端口 [1-65535]  
(默认端口: 64533):

Type your port or leave it as the default by just pressing **Enter**.

```
root@5f47b43f21989b0001343e60: ~  
File Edit View Search Terminal Help  
28. QUIC_utp_dynamicPort  
29. QUIC_srtp_dynamicPort  
30. QUIC_wechat-video_dynamicPort  
31. QUIC_dtls_dynamicPort  
32. QUIC_wireguard_dynamicPort  
  
备注1: 含有 [dynamicPort] 的即启用动态端口..  
备注2: [utp | srtp | wechat-video | dtls | wireguard] 分别伪装成 [BT下载 | 视频通话 | 微信视频通话 | DTLS 1.2 数据包 | WireGuard 数据包]  
  
(默认协议: TCP):1  
  
V2Ray 传输协议 = TCP  
-----  
请输入 V2Ray 端口 [1-65535]  
(默认端口: 64533):  
  
V2Ray 端口 = 64533  
-----
```

The next step is asking whether you'd like to install an ad blocker. This is a personal choice, but do note that it can affect performance. For a more barebones experience, we're going to enter **N**.

```
root@5f47b43f21989b0001343e60: ~  
File Edit View Search Terminal Help  
32. QUIC_wireguard_dynamicPort  
  
备注1: 含有 [dynamicPort] 的即启用动态端口..  
备注2: [utp | srtp | wechat-video | dtls | wireguard] 分别伪装成 [BT下载 | 视频通话 | 微信视频通话 | DTLS 1.2 数据包 | WireGuard 数据包]  
  
(默认协议: TCP):1  
  
V2Ray 传输协议 = TCP  
-----  
请输入 V2Ray 端口 [1-65535]  
(默认端口: 64533):  
  
V2Ray 端口 = 64533  
-----  
  
是否开启广告拦截(会影响性能) [Y/N]  
(默认 [N]):N
```

You can now choose whether to install Shadowsocks. Again, this depends on your use-case, but we're going to enter **N** for no.

```
root@5f47b43f21989b0001343e60: ~  
File Edit View Search Terminal Help  
  
V2Ray 传输协议 = TCP  
-----  
请输入 V2Ray 端口 [1-65535]  
(默认端口: 64533):  
  
V2Ray 端口 = 64533  
-----  
  
是否开启广告拦截(会影响性能) [Y/N]  
(默认 [N]):N  
  
广告拦截 = 关闭  
-----  
  
是否配置 Shadowsocks [Y/N]  
(默认 [N]): N
```

Finally, press **Enter** to confirm the installation. V2Ray will take a little while to download and install everything, placing the following config files to run it as a service:

- systemd: `etc/systemd/system/v2ray.service`
- SysV: `/etc/init.d/v2ray`

On successful install, it will display the configuration options you chose, followed my the commands to get your vray url and qr code, like so:

```
root@5f47b43f21989b0001343e60: ~  
File Edit View Search Terminal Help  
地址 (Address) = 45.61.139.134  
端口 (Port) = 64533  
用户 ID (User ID / UUID) = bd1ec2a3-1774-4343-8229-458f5884cb48  
额外 ID (Alter Id) = 233  
传输协议 (Network) = tcp  
伪装类型 (header type) = none  
----- END -----  
V2Ray 客户端使用教程: https://233v2.com/post/4/  
提示: 输入 v2ray url 可生成 vmess URL 链接 / 输入 v2ray qr 可生成二维码链接  
免被墙..推荐使用JMS: https://getjms.com  
root@5f47b43f21989b0001343e60:~#
```

With installation complete, you can edit `/etc/init.d/v2ray` via:

```
sudo nano /etc/init.d/v2ray
```

Change the config files to suit your preferences, using the [configuration section](#) of the official wiki for guidance and read our protocol explanation below.

You can then type `service v2ray start` to start v2ray.

## V2Ray Protocols Explained

Unlike Shadowsocks, V2ray supports numerous protocols, both inbound and outbound. As mentioned previously, VMess is chief among them, providing an inbound and output proxy for use in encrypted communications. However, there's also the following to consider:

- **Blackhole:** A protocol for outbound connections that blocks all connections with pre-defined responses. Despite V2Ray's functionality as an anti-censorship tool, this can be used with routing to block access to certain websites where necessary.
- **Dockodemo-door:** Dockodemo-door passes inbound connections to a specified destination, and as such can be used as a transparent proxy.
- **Freedom:** Passes all outbound TCP and UDP connections to their intended destinations. Typically used in instances where you want to sent traffic to its true destination.
- **HTTP:** A very common inbound protocol for distributed information systems.
- **MT Proto:** Used for Telegram, a privacy-focused chat app. A pair of inbound and outbound proxies can be used via V2Ray to build a proxy for a telegram server.
- **Shadowsocks:** A previously mentioned protocol that provides a secure proxy based on SOCKS5.

- **Socks:** The standard SOCKS protocol, with support for SOCKS5, SOCKS4, and SOCKS 4.A.

Each of V2Ray's protocols can be configured to the user's liking, with users able to specify in Blackhole's config the responses that will be blocked, for example.

### How to add a client to V2Ray

With V2Ray set up on your VPS, you can begin adding other devices, known as clients, to the connection. The process to do so depends on your device, but there are apps for Windows, MacOS, Android, iOS, Free BSD, and more. You can find them here:

- **V2Ray Windows:**

- **V2RayW** : <https://github.com/Cenmrev/V2RayW>
- **Clash for Windows** :  
[https://github.com/Fndroid/clash\\_for\\_windows\\_pkg](https://github.com/Fndroid/clash_for_windows_pkg)
- **Qv2ray** : <https://github.com/Qv2ray/Qv2ray>

- **V2Ray Mac:**

- **V2RayX** : <https://github.com/Cenmrev/V2RayX>
- **V2RayU** : <https://github.com/yanue/V2rayU>
- **ClashX** : <https://github.com/yichengchen/clashX>

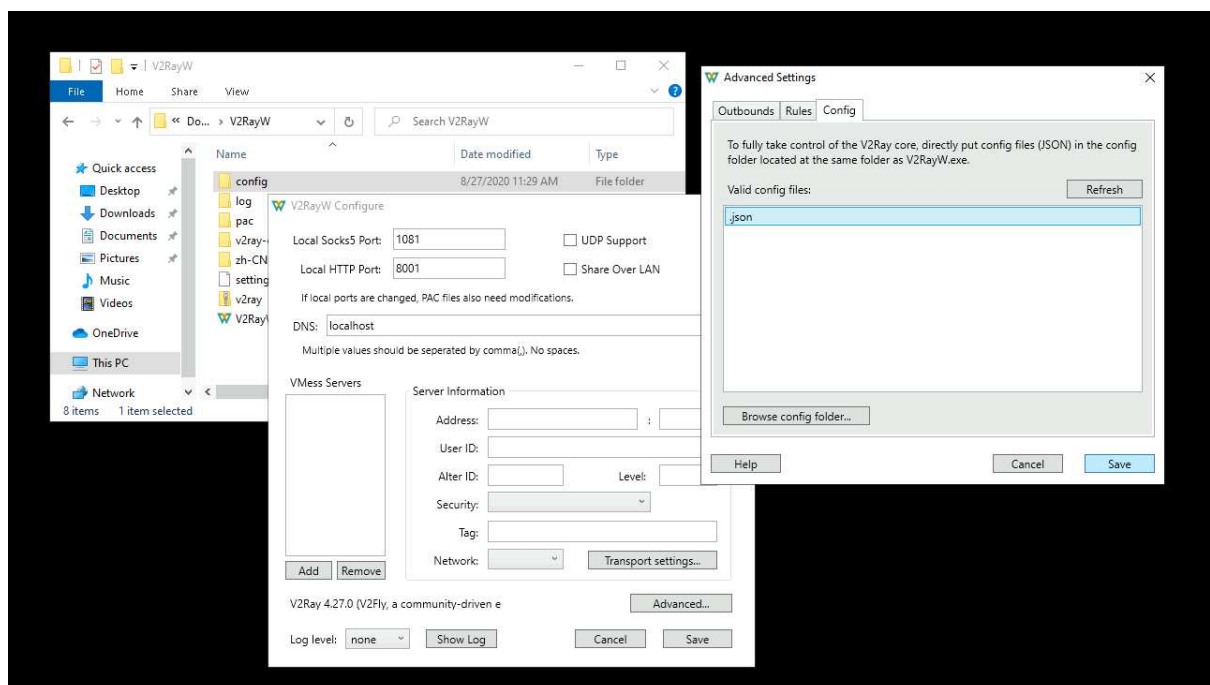
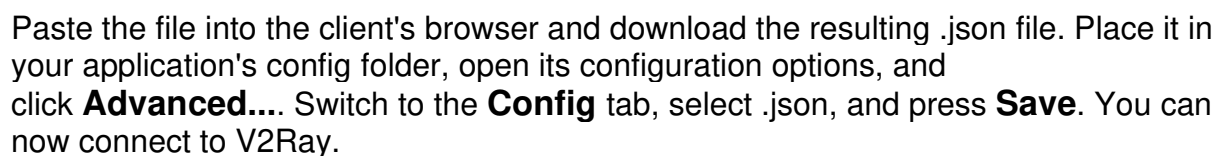
- **V2Ray Android:**

- **BifrostV** :
- **V2RayNG** :  
<https://play.google.com/store/apps/details?id=com.v2ray.ang>

- **V2Ray iOS:**

- **Kitsunebi** : <https://apps.apple.com/us/app/kitsunebi-proxy-utility/id1446584073>
- **i2Ray** : <https://apps.apple.com/us/app/i2ray/id1445270056>

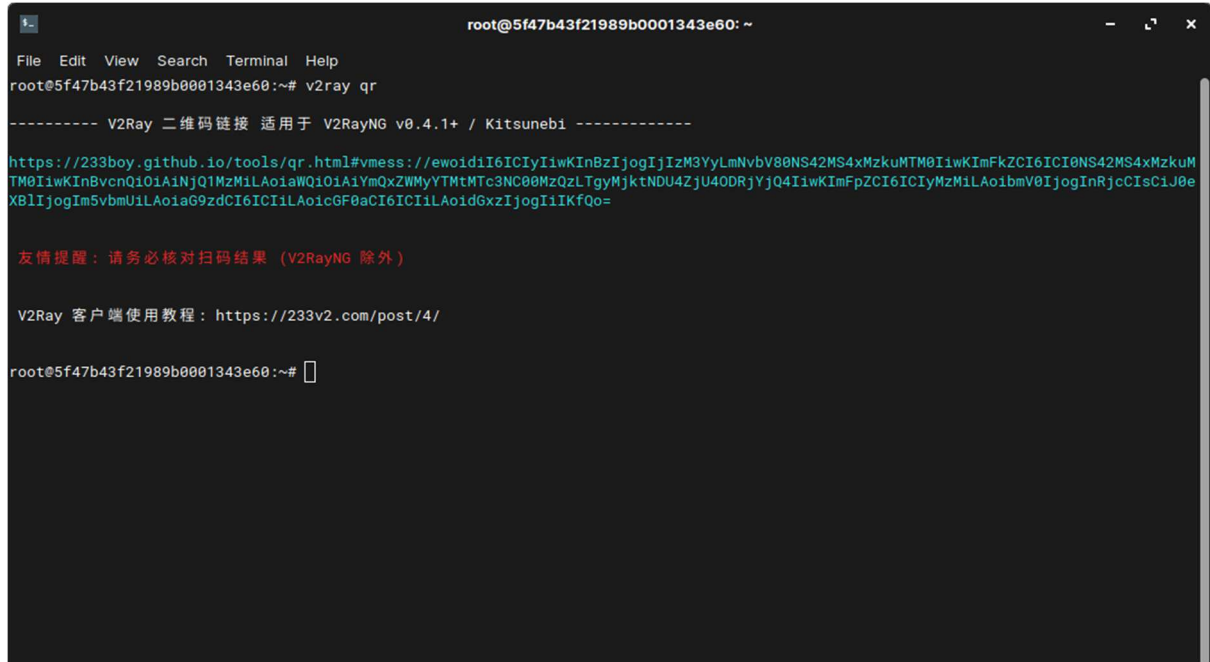
To import your config on a Windows client, instead type `v2ray link`. Copy the link and send it to the client somehow - whether via email or a messaging service.





## Connecting on Mobile

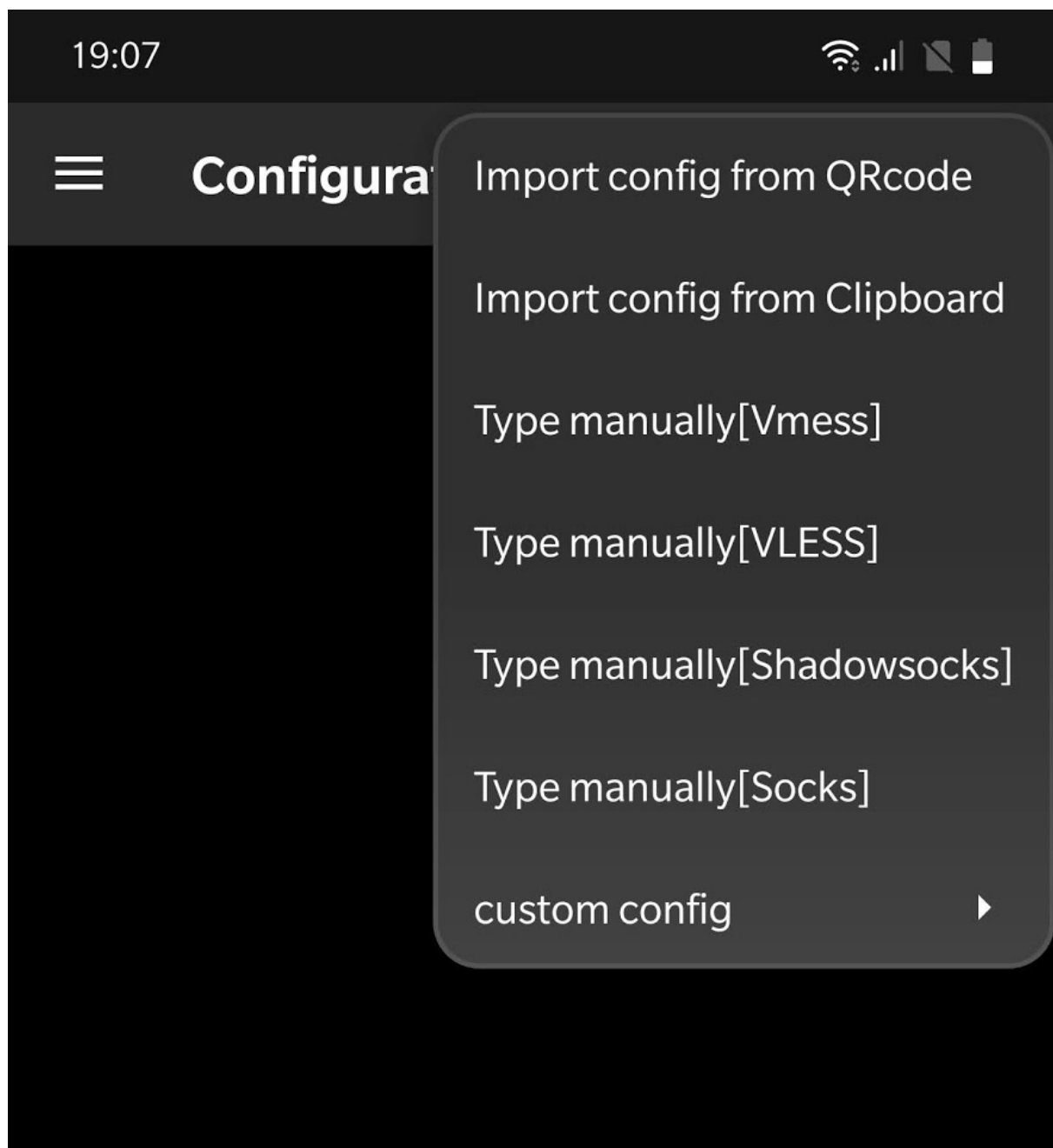
Most V2Ray apps on mobile support QR code scanning to quickly import the configuration parameters from your server. To view this code, type `v2ray qr` when it's running and click the link it outputs.



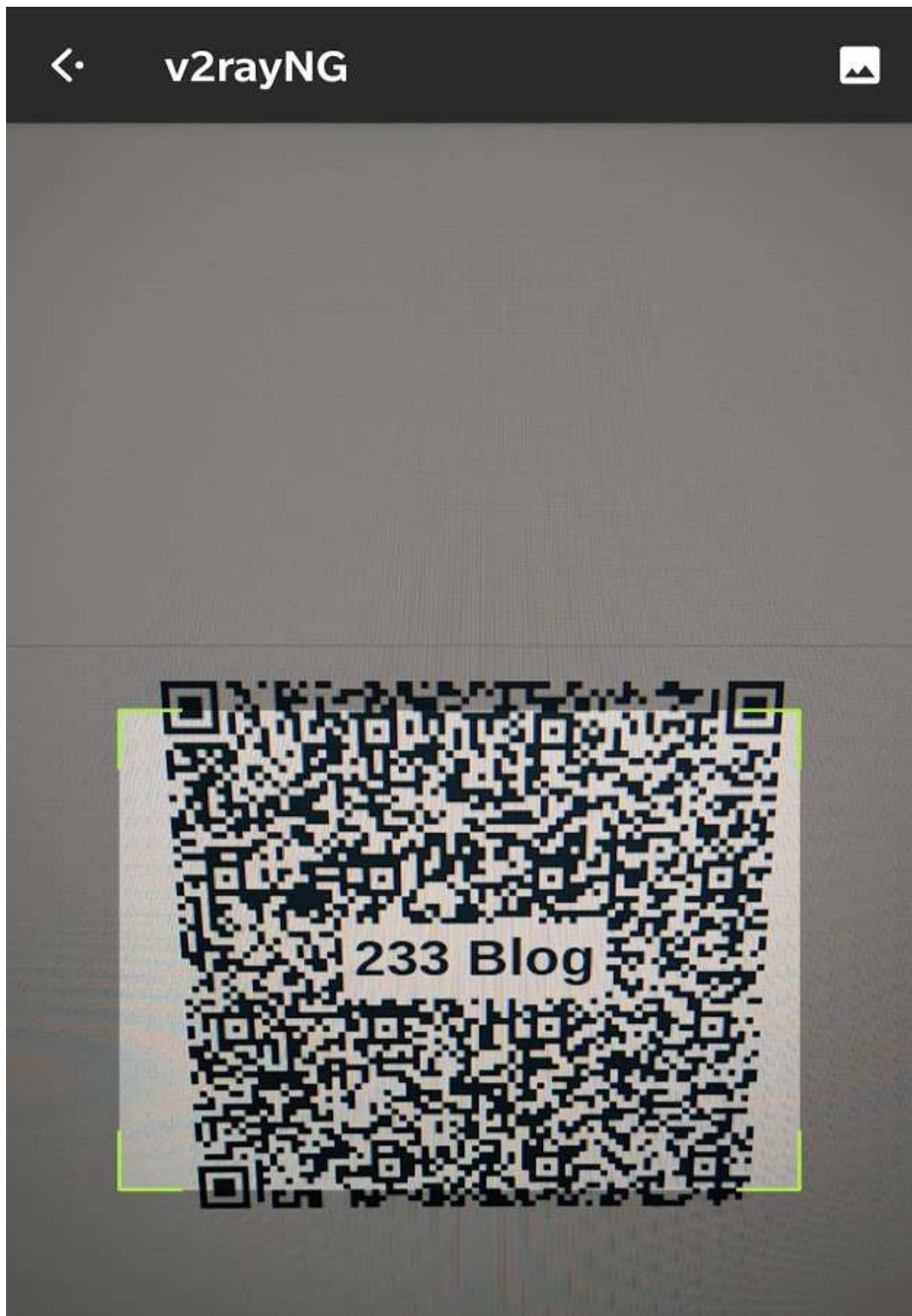
```
root@5f47b43f21989b0001343e60: ~  
File Edit View Search Terminal Help  
root@5f47b43f21989b0001343e60:~# v2ray qr  
  
----- V2Ray 二维码链接 适用于 V2RayNG v0.4.1+ / Kitsunebl -----  
  
https://233boy.github.io/tools/qr.html#vmess://ewoidiI6ICiYIiwKInBzIjogIjIzM3YyLmNvbV80NS42MS4xMzkuMTM0IiwKImFkZCI6ICI0NS42MS4xMzkuMTM0IiwKInBvcnQiOiAiNjQ1MzMlLAoiaWQiOiAiYmQxZWMyYTMtMTc3NC00MzQzLTgyMjktNDU4ZjU4ODRjYjQ4IiwKImFpZCI6ICIyMzMlLAoibmV0IjogInRjcCIscjJ0eXB8lIjogIm5vbmUiLAoiaG9zdCI6ICIiLAoicGF0aCI6ICIiLAoidGxzIjogIiIKfQo=  
  
友情提醒：请务必核对扫码结果（V2RayNG 除外）  
  
V2Ray 客户端使用教程：https://233v2.com/post/4/  
  
root@5f47b43f21989b0001343e60:~#
```

In your V2Ray app (in this case v2rayNG) click the plus icon in the top-right, then **Import config from QRcode**.





Point your phone's camera at the QR code on your screen until it imports.



Press the connection button to enable V2Ray on your device.