

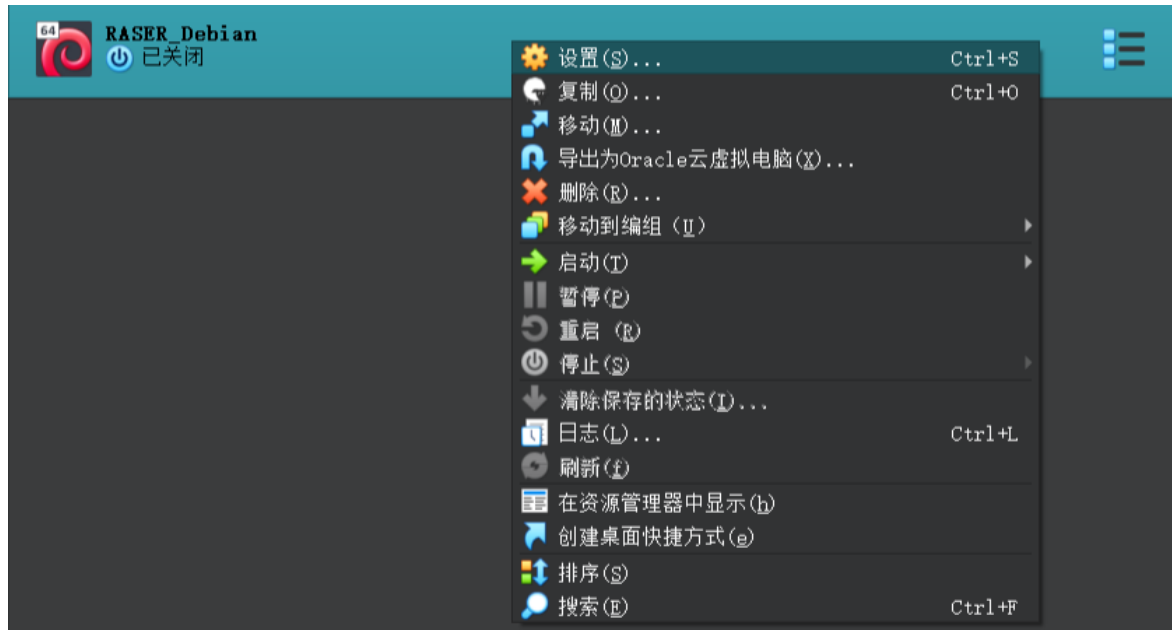
解决虚拟机网络问题

➤ 存在的问题

- 虚拟机“桥接网卡”网络设置在校园网下无法使用
 - 连接手机热点需要消耗流量或者仍然无法连接
- 虚拟机“桥接网卡”网络设置下，Windows电脑切换不同网络后，虚拟机IP地址会发生变化，VSCode连接虚拟机时每次都需要修改相应变化后的IP地址

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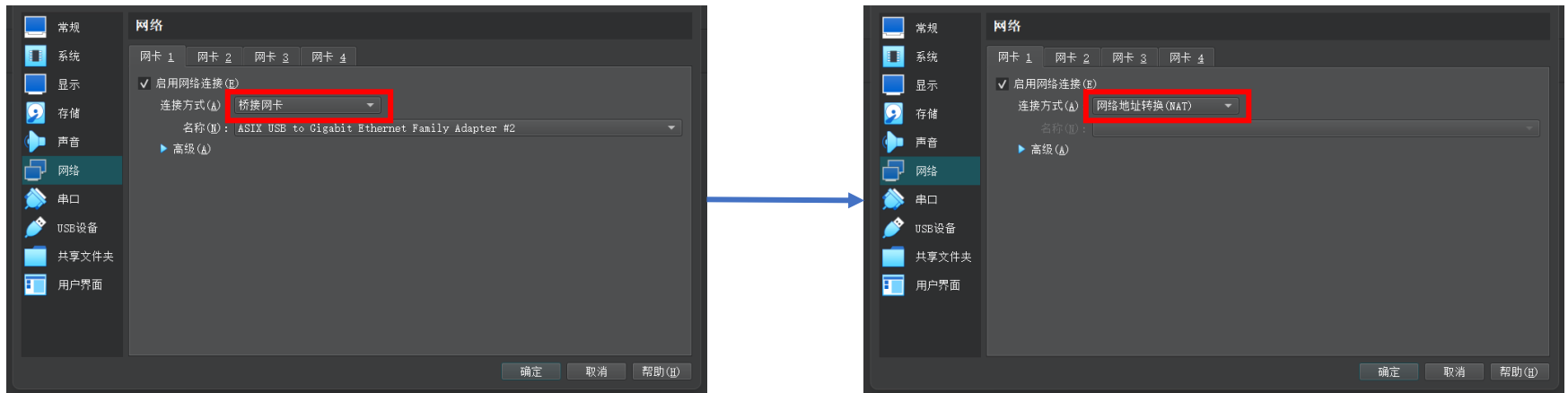
1. 右键打开虚拟机设置



2. 点击设置弹窗左侧的“网络”按钮

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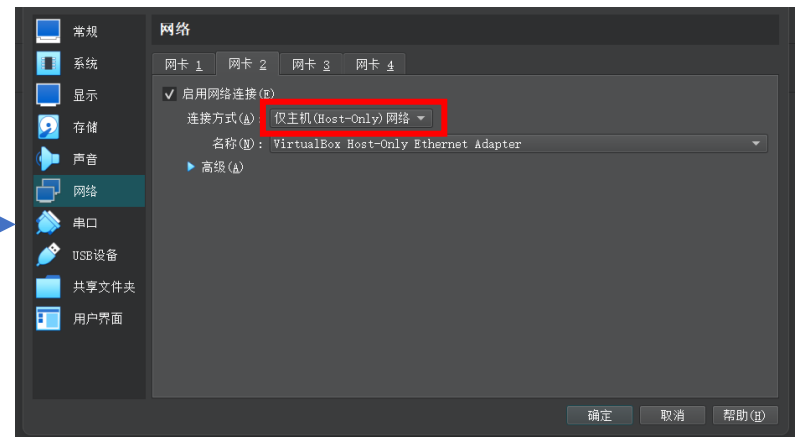
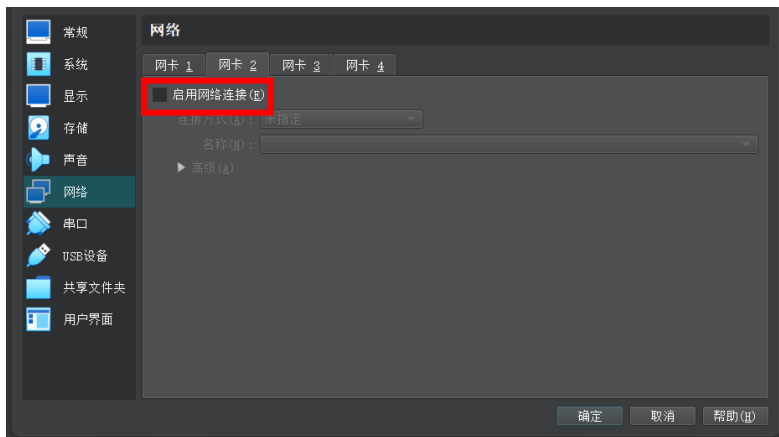
3. 将“网卡1”的“连接方式”从“桥接网卡”改为“网络地址转换(NAT)”



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4. 勾选“网卡2”中的“启动网络连接”

5. “连接方式”选择“仅主机(Host-Only)网络”



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6. 启动虚拟机

7. 命令行输入 `ip addr show` 查看虚拟机网络接口和相应的IP地址

8. 查询得到名为 `enp0s8` 的网络接口未获取IP地址

```
raser@debian:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:8f:ea:40 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3
        valid_lft 86329sec preferred_lft 86329sec
    inet6 fe80::a00:27ff:fe8f:ea40/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 08:00:27:0f:bc:64 brd ff:ff:ff:ff:ff:ff
raser@debian:~$
```

9. 命令行输入以下命令

- `sudo sh -c 'echo "allow-hotplug enp0s8" >> /etc/network/interfaces'`
 - `sudo`命令需要输入raser用户密码 raser
- `sudo sh -c 'echo "iface enp0s8 inet dhcp" >> /etc/network/interfaces'`

```
raser@debian:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:8f:ea:40 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3
        valid_lft 86329sec preferred_lft 86329sec
    inet6 fe80::a00:27ff:fe8f:ea40/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 08:00:27:0f:bc:64 brd ff:ff:ff:ff:ff:ff
raser@debian:~$ sudo sh -c 'echo "allow-hotplug enp0s8" >> /etc/network/interfaces'
[sudo] password for raser:
raser@debian:~$ sudo sh -c 'echo "iface enp0s8 inet dhcp" >> /etc/network/interfaces'
raser@debian:~$ _
```

10. 命令行输入 `sudo dhclient enp0s8` 向DHCP服务器请求IP地址

11. 命令行输入 `ip addr show` 查看网络接口 `enp0s8` 的IP地址

- `192.168.56.XXX` 即为Windows电脑和VSCode与虚拟机连接时需要用到的IP地址

```
raser@debian:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:8f:ea:40 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3
        valid_lft 86384sec preferred_lft 86384sec
    inet6 fe80::a00:27ff:fe8f:ea40/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:0f:bc:64 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.104/24 brd 192.168.56.255 scope global dynamic enp0s8
        valid_lft 584sec preferred_lft 584sec
    inet6 fe80::a00:27ff:fe0f:bc64/64 scope link
        valid_lft forever preferred_lft forever
raser@debian:~$
```