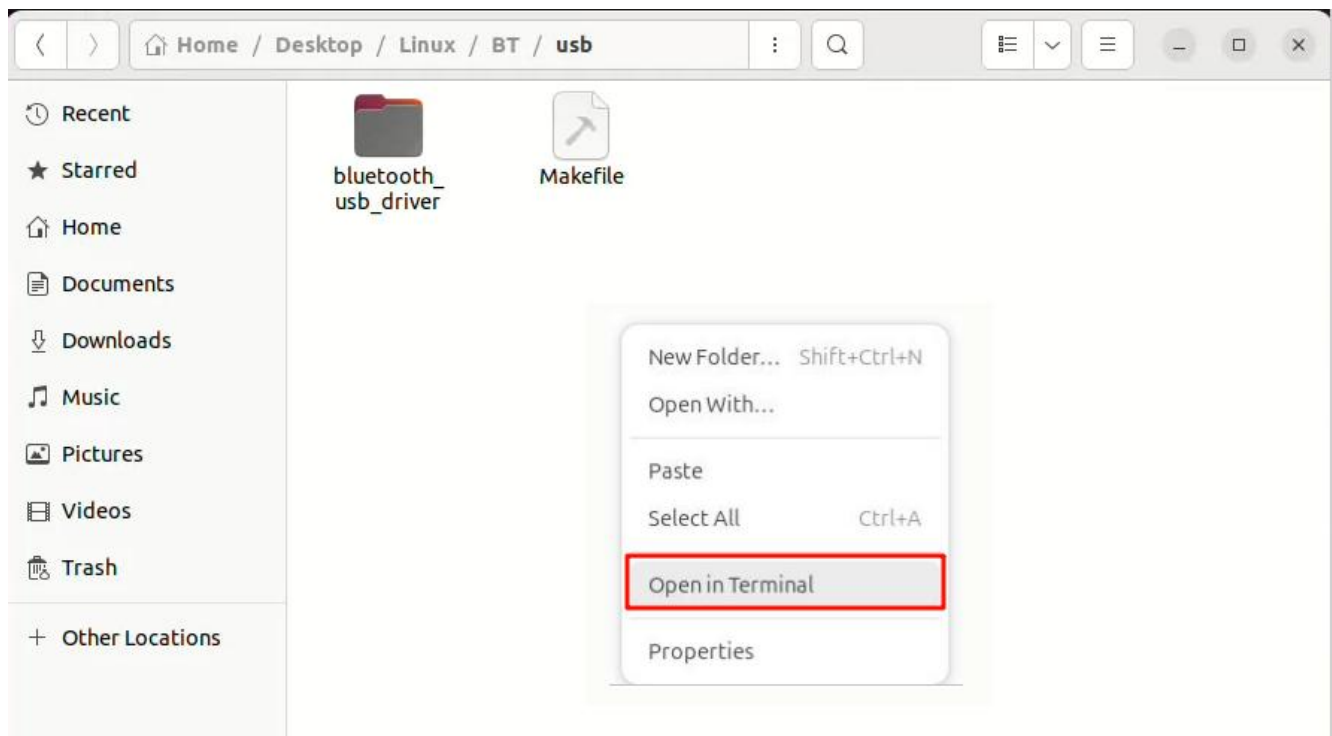


1、安装驱动

1、将下载的驱动解压后依次打开Linux驱动中的“BT→usb”文件夹，鼠标右击空白的地方，选择“Open in Terminal”，如下图



2、输入 su root 命令，切换到root用户，此时需要输入root用户对应的密码。

```
cyril@Latia:~/Desktop/Linux/BT/usb$ su root
Password:
root@Latia:/home/cyril/Desktop/Linux/BT/usb#
```

3、输入 make install 命令，安装蓝牙驱动程序。

```
root@Latia:/home/cyril/Desktop/Linux/BT/usb# make install
rmmod btusb
mv /lib/modules/5.15.0-25-generic/kernel/drivers/bluetooth/btusb.ko /lib/modules/5.15.0-25-generic/kernel/drivers/bluetooth/btusb_bak
rmmod rtk_btusb
rmmod: ERROR: Module rtk_btusb is not currently loaded
make: [Makefile:9: install] Error 1 (ignored)
make -C ./bluetooth_usb_driver
make[1]: Entering directory '/home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver'
make -C /lib/modules/5.15.0-25-generic/build M=/home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver modules
make[2]: Entering directory '/usr/src/linux-headers-5.15.0-25-generic'
warning: the compiler differs from the one used to build the kernel
The kernel was built by: gcc (Ubuntu 11.2.0-19ubuntu1) 11.2.0
You are using: gcc (Ubuntu 11.4.0-1ubuntu1~22.04) 11.4.0
CC [M] /home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver/rtk_coex.o
CC [M] /home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver/rtk_misc.o
CC [M] /home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver/rtk_bt.o
LD [M] /home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver/rtk_btusb.o
MODPOST /home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver/Module.symvers
CC [M] /home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver/rtk_btusb.mod.o
LD [M] /home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver/rtk_btusb.ko
BTF [M] /home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver/rtk_btusb.ko
Skipping BTF generation for /home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver/rtk_btusb.ko due to unavailability of vmlinux
make[2]: Leaving directory '/usr/src/linux-headers-5.15.0-25-generic'
make[1]: Leaving directory '/home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver'
cp -f ./bluetooth_usb_driver/rtk_btusb.ko /lib/modules/5.15.0-25-generic/kernel/drivers/bluetooth/rtk_btusb.ko
depmod -a 5.15.0-25-generic
make -C ./bluetooth_usb_driver clean
make[1]: Entering directory '/home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver'
rm -rf *.o *.mod.c *.mod.o *.ko *.symvers *.order *.a
make[1]: Leaving directory '/home/cyril/Desktop/Linux/BT/usb/bluetooth_usb_driver'
echo "install rtk_btusb success!"
install rtk_btusb success!
root@Latia:/home/cyril/Desktop/Linux/BT/usb#
```

4、输入 `ls /lib/modules/$(uname -r)/kernel/drivers/bluetooth/rtk_btusb.ko` 命令，检查是否生成 `rtk_btusb.ko` 驱动文件，如下图

```
root@Latia:/home/cyril/Desktop/Linux/BT/usb# ls /lib/modules/$(uname -r)/kernel/drivers/bluetooth/rtk_btusb.ko
/lib/modules/5.15.0-25-generic/kernel/drivers/bluetooth/rtk_btusb.ko
root@Latia:/home/cyril/Desktop/Linux/BT/usb#
```

5、输入 `cp ../rtkbt-firmware/lib/firmware/rtl8851bu_fw /lib/firmware/` 命令，拷贝文件。

```
root@Latia:/home/cyril/Desktop/Linux/BT/usb# cp ../rtkbt-firmware/lib/firmware/rtl8851bu_fw /lib/firmware/
root@Latia:/home/cyril/Desktop/Linux/BT/usb#
```

输入 `cp ../rtkbt-firmware/lib/firmware/rtl8851bu_config /lib/firmware/` 命令，拷贝文件。

```
root@Latia:/home/cyril/Desktop/Linux/BT/usb# cp ../rtkbt-firmware/lib/firmware/rtl8851bu_config /lib/firmware/
root@Latia:/home/cyril/Desktop/Linux/BT/usb#
```

6、输入 `modprobe bluetooth` 命令，加载内核中的蓝牙模块。

```
root@Latia:/home/cyril/Desktop/Linux/BT/usb# modprobe bluetooth
root@Latia:/home/cyril/Desktop/Linux/BT/usb#
```

输入 `modprobe rtk_btusb` 命令，加载产品的蓝牙驱动。

```
root@Latia:/home/cyril/Desktop/Linux/BT/usb# modprobe rtk_btusb
root@Latia:/home/cyril/Desktop/Linux/BT/usb#
```

7、输入 `lsmod | grep rtk_btusb` 命令，查看蓝牙驱动是否加载起来。

```
root@Latia:/home/cyril/Desktop/Linux/BT/usb# lsmod | grep rtk_btusb
rtk_btusb          77824 0
bluetooth          688128 15 btrtl,btintel,btbcm,bnep,rtk_btusb,rfcomm
root@Latia:/home/cyril/Desktop/Linux/BT/usb#
```

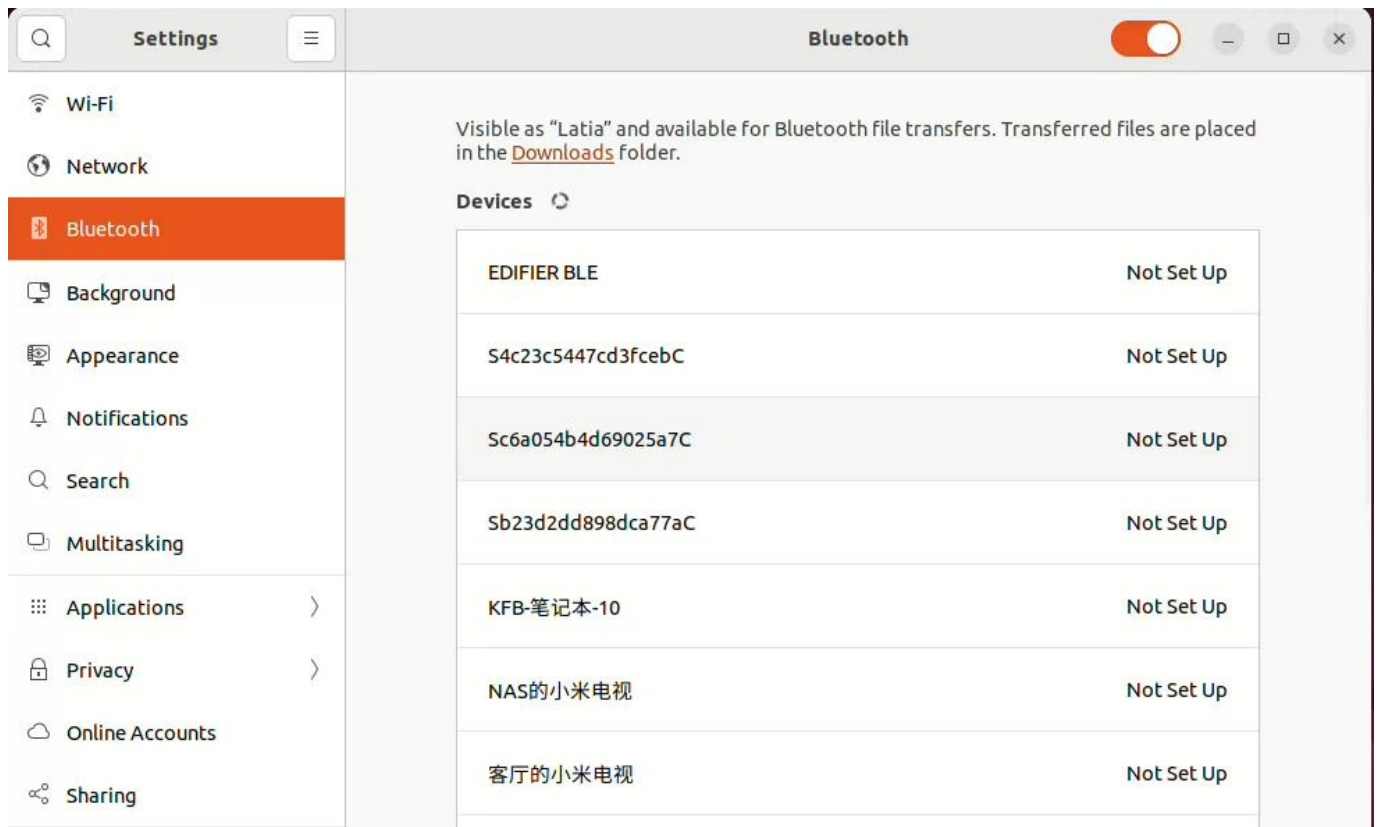
二、使用蓝牙

1、把网卡连接到电脑上，输入命令 `hciconfig` 查看蓝牙是否被Linux系统识别到。以hci开头的名称代表蓝牙设备，如下图。也可以将网卡拔掉后输入 `hciconfig` 命令，再插上后输入 `hciconfig` 命令，通过对比锁定蓝牙。

```
root@Latia:/home/cyril/Desktop/Linux/BT/usb# hciconfig
hci0: Type: Primary Bus: USB
      BD Address: 00:00:00:00:00:00 ACL MTU: 0:0 SCO MTU: 0:0
      DOWN
      RX bytes:0 acl:0 sco:0 events:0 errors:0
      TX bytes:0 acl:0 sco:0 commands:0 errors:0
root@Latia:/home/cyril/Desktop/Linux/BT/usb#
```

如果正常识别到蓝牙，可以搜索并连接蓝牙设备后使用。

图形化界面，可以在设置中找到蓝牙，启用后搜索并连接蓝牙设备后即可使用。



三、卸载驱动

如果不需要再在这台电脑上使用蓝牙，可以按照如下步骤将驱动程序卸载掉。

参考安装驱动步骤1和2，打开终端并切换到root用户，输入 `make uninstall` 命令。

```
root@Latia:/home/cyril/Desktop/Linux/BT/usb# make uninstall
mv -n /lib/modules/5.15.0-25-generic/kernel/drivers/bluetooth/btusb_bak /lib/modules/5.15.0-25-generic/kernel/dr
rmmod rtk_btusb
rm -f /lib/modules/5.15.0-25-generic/kernel/drivers/bluetooth/rtk_btusb.ko
depmod -a 5.15.0-25-generic
echo "uninstall rtk_btusb success!"
uninstall rtk_btusb success!
root@Latia:/home/cyril/Desktop/Linux/BT/usb#
```