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#### *Introduction to Linux - A Hands on Guide*

This guide was created as an overview of the Linux Operating System, geared toward new users as an exploration tour and getting started guide, with exercises at the end of each chapter. For more advanced trainees it can be a desktop reference, and a collection of the base knowledge needed to proceed with system and network administration. This book contains many real life examples derived from the author's experience as a Linux system and network administrator, trainer and consultant. They hope these examples will help you to get a better understanding of the Linux system and that you feel encouraged to try out things on your own.

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#### ted\_chou12

Registered Aug 2010  
 Location Zhongli, Taoyuan  
 Posts 430  
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## bluetooth how to, hcitool, obexftp, rfcomm

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Posted 03-03-2013 at 08:05 AM by [ted\\_chou12](#)

Hi, I am trying to figure out how to connect a phone by bluetooth thru terminal. I am just posting my progress here:  
 First! I Don't know how Ive got it working, but there must be something that I have

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done correctly to ensure the connection was successfully made. Secondly, this is going to be a mess and you are warned. Third, there is really not much info on this and quite a lot of them are specific issues rather than guides. I will make this as helpful and informative as I can:

Ensure that you have these installed:

Code:

```
root:# slapt-get --search blue
bluedevil-1.2.2-i586-1v170 [inst=no]:
bluefish-2.0.2-i586-1v170 [inst=no]:
bluefish-2.2.3-i586-2v170 [inst=no]:
bluegriffon-1.4-i586-1v170 [inst=no]:
blueman-1.23-i586-1v170 [inst=yes]: b
bluez-4.91-i486-1 [inst=no]: bluez (B
bluez-4.99-i586-1v170 [inst=yes]: blu
bluez-firmware-1.2-i486-1 [inst=yes]:
bluez-hcidump-2.0-i486-1 [inst=yes]:
bluez-libs-3.29-i586-1v170 [inst=yes]
deskmenu-1.4.5-i586-1v170 [inst=no]:
filelight-1.9.0-i586-1v170 [inst=no]:
libbluedevil-1.9.1-i586-1v170 [inst=n
mate-bluetooth-1.4.0-i586-1v170 [inst
obexd-0.47-i586-1v170 [inst=no]: obex
winefish-1.3.3-i586-9v170 [inst=no]:
obexftp-0.23-i486-5 [inst=yes]: obexf
```

Secondly use hcitool to discover devices:

Code:

```
root:# hcitool scan
Scanning ...
50:56:63:A6:5E:06 HTC C
```

Now use sdptool to show available services:

Code:

```
sdptool (connected)
Profile Descriptor List:
"" (0x1134)
Version: 0x0100

Service Name: Network service
Service Description: Network servi
Service RecHandle: 0x10008
Service Class ID List:
"Network Access Point" (0x1116)
Protocol Descriptor List:
"L2CAP" (0x0100)
PSM: 15
"BNEP" (0x000f)
Version: 0x0100
SEQ16: 800 806
Language Base Attr List:
code_ISO639: 0x656e
encoding: 0x6a
base_offset: 0x100
Profile Descriptor List:
"Network Access Point" (0x1116)
Version: 0x0100

Service Name: OBEX File Transfer
Service RecHandle: 0x1000a
```

```
Service Class ID List:
  UUID 128: 00001106-0000-1000-800
Protocol Descriptor List:
  "L2CAP" (0x0100)
  "RFCOMM" (0x0003)
    Channel: 16
  "OBEX" (0x0008)
```

Pay special attention to the channel, rfcomm.  
add

Code:

```
rfcomm0 {
    # Automatically bind the device
    bind yes;

    # Bluetooth address of the device
    device 50:56:63:A6:5E:06;

    # RFCOMM channel for the connection
    channel 16;

    # Description of the connection
    comment "OBEX File Transfer";
}
```

to your /etc/bluetooth/rfcomm.conf and  
restart your bluetooth service.  
now rfcomm should give an output similar to  
this:

Code:

```
server://home/ted
root:# rfcomm
rfcomm0: 50:56:63:A6:5E:06 channel 16
```

if not, then this must have worked:

Code:

```
root:# rfcomm bind hci0 50:56:63:A6:5E:06
```

Then rfcomm again.  
Try restarting bluetooth service again.  
Now use obexftp to access the device  
directories:

Code:

```
root:# obexftp -b 50:56:63:A6:5E:06 -
Browsing 50:56:63:A6:5E:06 ...
Connecting..done
Tried to connect for 43ms
Receiving "/"... Sending ""...done
Disconnecting..done
```

Ted

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if you lack "OBEX File Transfer" or something like "OBEX FTP", ANND you are using an android fone, you could try downloading bluetooth file transfer by searching for "OBEX" in googleplay. And the service appears as:

Code:

```
Service Name: OBEX FTP
Service RecHandle: 0x10007
Service Class ID List:
  UUID 128: 00001106-0000-1000-8000-00001101
Protocol Descriptor List:
  "L2CAP" (0x0100)
  "RFCOMM" (0x0003)
  Channel: 30
```

Posted 03-03-2013 at 09:33 AM by [ted\\_chou12](#) 

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