

USB to serial: install the appropriate driver for your OS before connecting the convertor.
Drivers are in folder "2303 all driver" on the CD. Remark: does not work for Windows 8(.1).



Your laptop:
Assign static address Ethernet: 10.0.0.2/255.0.0.0

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address: 10 . 0 . 0 . 2

Subnet mask: 255 . 0 . 0 . 0

Default gateway: . . .

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server: . . .

Alternative DNS server: . . .

Validate settings upon exit

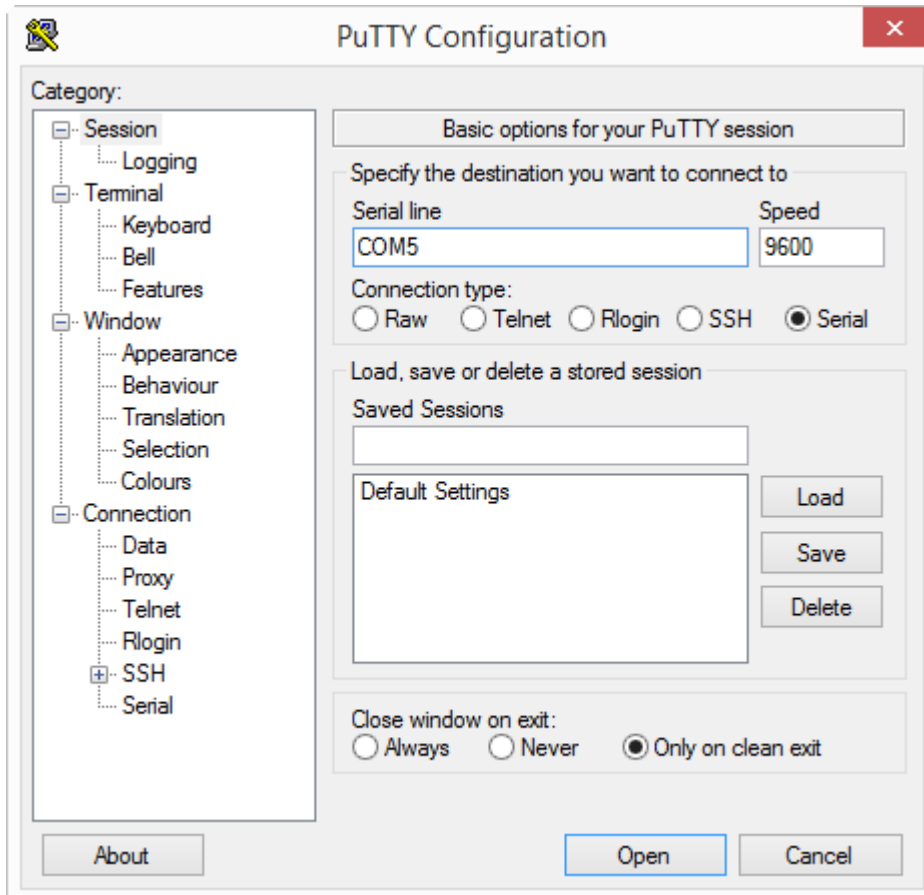
Advanced...

OK Cancel

- Connect white network cable to FastEthernet 0/0 connector
- Connect white network cable to your laptop's Ethernet port
- Connect blue console cable to CONSOLE connector
- Connect blue console cable to USB-to-serial adapter



Launch Putty, serial mode, select COM? Port (look in device manager)



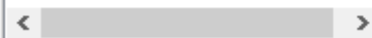
Computer Management

File Action View Help

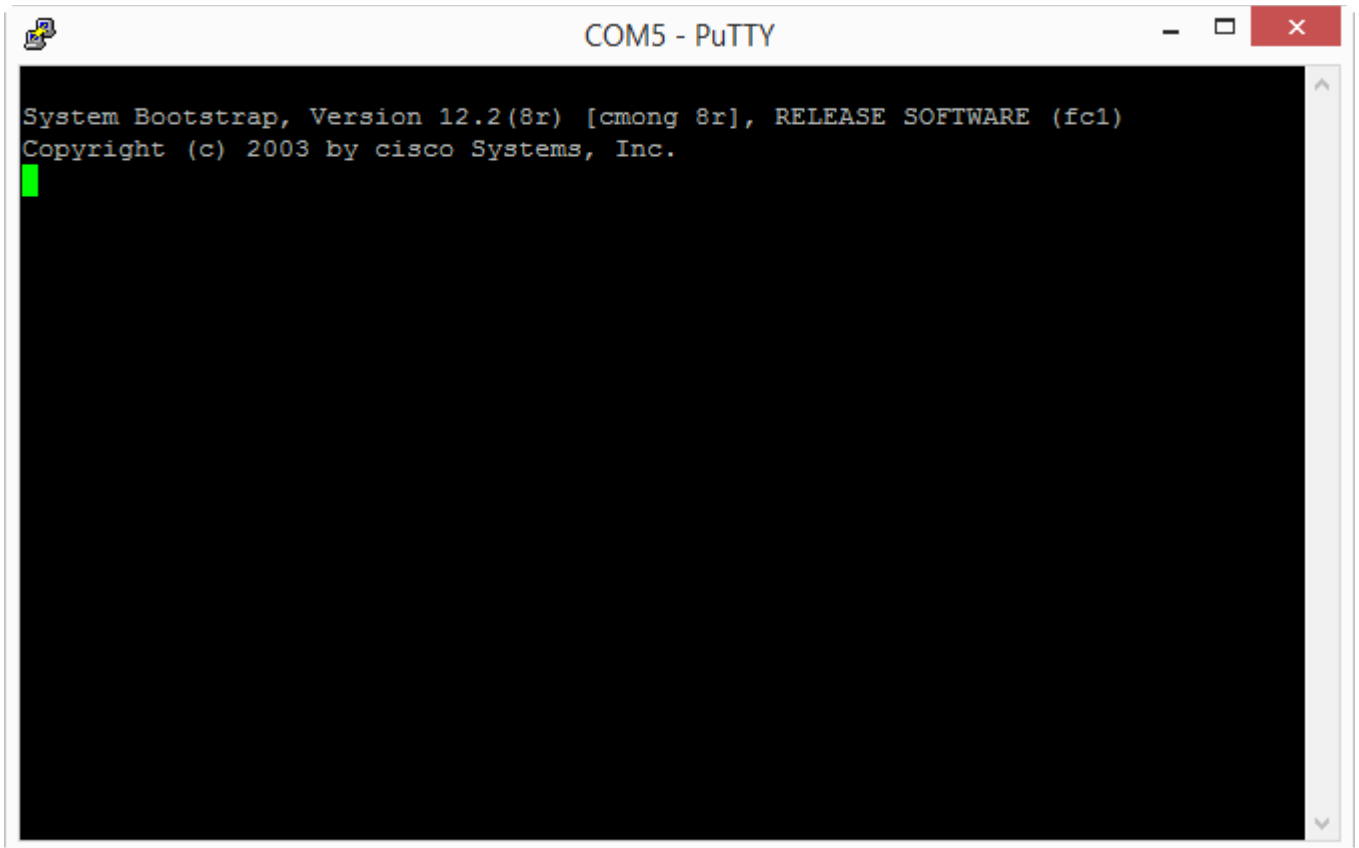


- Computer Management (Local)
- System Tools
 - Task Scheduler
 - Event Viewer
 - Shared Folders
 - Performance
 - Device Manager
- Storage
 - Disk Management
- Services and Applications

- RC2014
 - Audio inputs and outputs
 - Batteries
 - Biometric devices
 - Bluetooth
 - Computer
 - Disk drives
 - Display adapters
 - DVD/CD-ROM drives
 - Human Interface Devices
 - IDE ATA/ATAPI controllers
 - Imaging devices
 - Keyboards
 - Memory technology devices
 - Mice and other pointing devices
 - Monitors
 - Network adapters
 - Ports (COM & LPT)
 - Prolific USB-to-Serial Comm Port (COM5)
 - Print queues
 - Processors
 - Sensors
 - Software devices
 - Sound, video and game controllers
 - Storage controllers
 - System devices
 - Universal Serial Bus controllers

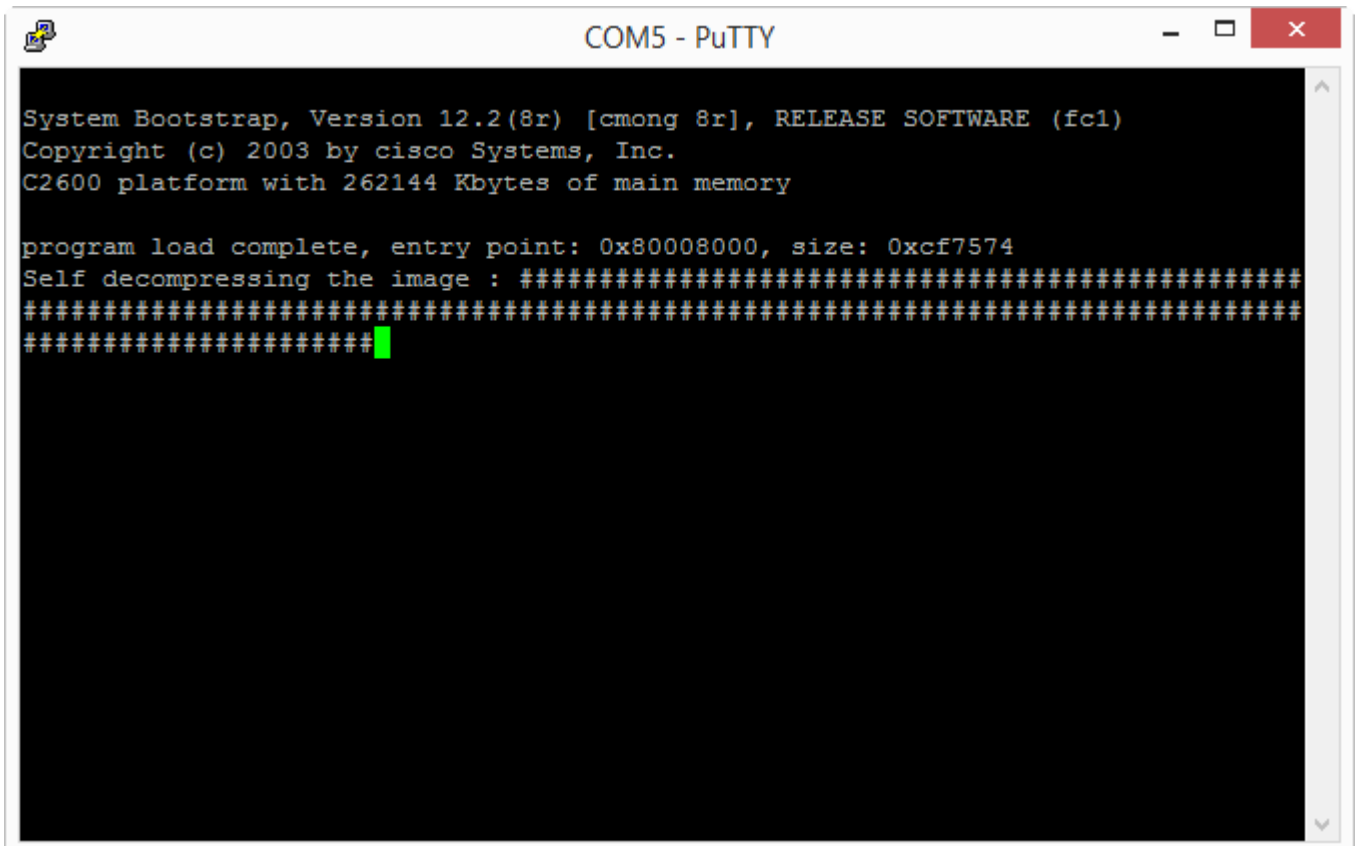


Power on the router.



```
System Bootstrap, Version 12.2(8r) [cmong 8r], RELEASE SOFTWARE (fc1)
Copyright (c) 2003 by cisco Systems, Inc.
█
```

Wait a couple of minutes (3:06) until the router is up and running.



```
System Bootstrap, Version 12.2(8r) [cmong 8r], RELEASE SOFTWARE (fc1)
Copyright (c) 2003 by cisco Systems, Inc.
C2600 platform with 262144 Kbytes of main memory

program load complete, entry point: 0x80008000, size: 0xcf7574
Self decompressing the image : #####
#####
#####
█
```

You will then be able to type the RETURN-key and see Router> prompt.

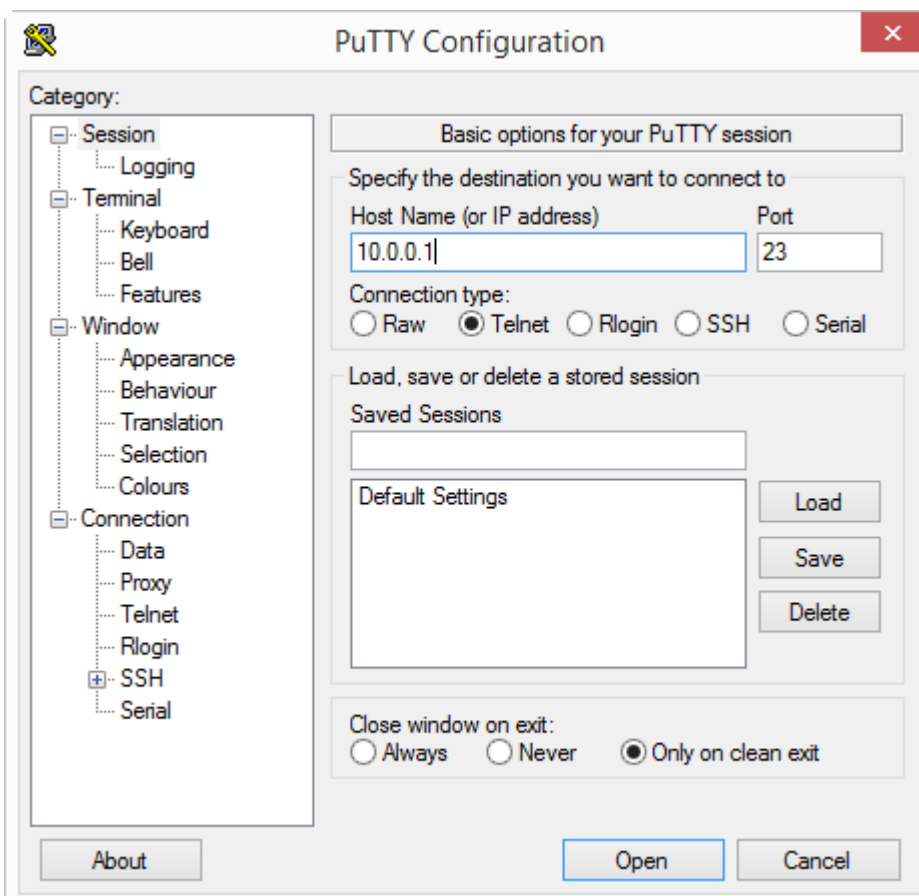
```
49152K bytes of processor board System flash (Read/Write)

Slot is empty or does not support clock participate
WIC slot is empty or does not support clock participate

Press RETURN to get started!

*Mar  1 00:00:17.684: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
00:00:18: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
00:00:19: %SYS-5-CONFIG_I: Configured from memory by console
00:00:20: %SYS-5-RESTART: System restarted --
Cisco IOS Software, C2600 Software (C2600-IPBASEK9-M), Version 12.4(17a), RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 07-Nov-07 12:40 by prod_rel_team
00:00:20: %SNMP-5-COLDSTART: SNMP agent on host Router is undergoing a cold start
Router>
Router>
```

With Putty, telnet into 10.0.0.1





```
Type password cisco
Type enable
Type the wrong password: krick
Type the correct password: cisco
show region
show version (+ space)
show processes (+ couple of spaces)
show running-config (+ couple of spaces)
show memory (+ couple of spaces, then CTRL-C, CTRL-C)
ping 10.0.0.1
ping 10.0.0.2
firewall
ping 10.0.0.2
start tftpd32
write core
10.0.0.2
<RETURN>
```

This will take around 19:58. Use this time to install Python (if not yet installed).

```
move files Router-coreiomem and Router-core to workshop folder.
naft-gfe.py Router-coreiomem.pcap Router-coreiomem
naft-gfe.py Router-core.pcap Router-core
windump -r Router-core.pcap
windump -r Router-coreiomem.pcap
naft-icd.py cwstrings Router-core
naft-icd.py regions Router-core
naft-icd.py heap Router-core
naft-icd.py -r heap Router-core
```



```
naft-icd.py frames Router-core Router-coreiomem Router-coreiomem-2.pcap
naft-icd.py history Router-core
naft-icd.py events Router-core
naft-icd.py -rf "TTY data" heap Router-core
naft-icd.py -rsf "TTY data" heap Router-core
```

```
show flash
```

```
copy flash:c2600-ipbasek9-mz.124-17a.bin tftp
10.0.0.2
<RETURN>
```

```
move c2600-ipbasek9-mz.124-17a.bin to workhop folder
copy flash:c2600-ipbasek9-mz.124-17a-verify.bin tftp
10.0.0.2
<RETURN>
```

```
move c2600-ipbasek9-mz.124-17a-verify.bin to workhop folder
```

```
naft-icd.py checktext Router-core c2600-ipbasek9-mz.124-17a.bin
naft-icd.py checktext Router-core c2600-ipbasek9-mz.124-17a-verify.bin
```

```
naft-ii.py c2600-ipbasek9-mz.124-17a.bin
naft-ii.py c2600-ipbasek9-mz.124-17a-verify.bin
```