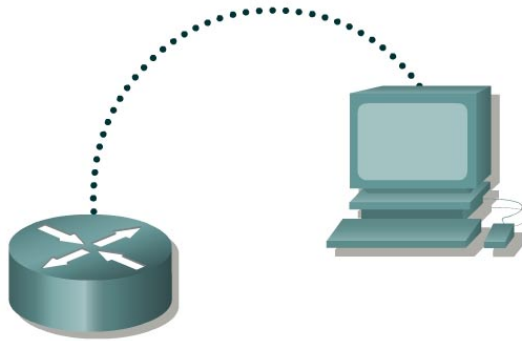


Lab 2.2.4 Establishing a Console Session with HyperTerminal



Straight-through cable	—————
Serial cable	————— <del> </del>
Console (Rollover)	
Crossover cable	- - - - -

Objective

- Connect a router and workstation using a console cable.
- Configure HyperTerminal to establish a console session with the router.

Background/Preparation

HyperTerminal is a simple Windows-based terminal emulation program that can be used to connect to the console port on the router. A PC with HyperTerminal provides a keyboard and monitor for the router. Connecting to the console port with a rollover cable and using HyperTerminal is the most basic way to access a router for checking or changing its configuration.

Set up a network similar to the one in the diagram. Any router that meets the interface requirements may be used. Possible routers include 800, 1600, 1700, 2500, 2600 routers, or a combination. The following resources will be required:

- Workstation with a serial interface and HyperTerminal
- Cisco Router
- Console (rollover) cable for connecting the workstation to the router

Step 1 Basic Router Configuration

- Connect a rollover cable to the console port on the router and the other end to the PC with a DB-9 or DB-25 adapter to a COM port. This should be completed prior to powering on any devices.

Step 2 Start HyperTerminal program

- a. Turn on the computer and router.
- b. From the Windows taskbar, locate the HyperTerminal program:
Start > Programs > Accessories > Communications > Hyper Terminal

Step 3 Name the HyperTerminal Session

- a. At the “Connection Description” popup, enter a name in the connection *Name:* field and select **OK**.



Step 4 Specify the computers connecting interface

- a. At the “Connect To” popup, use the drop down arrow in the *Connect using:* field to select **COM1** and select **OK**.



Step 5 Specify the interface connection properties

- a. At the “COM1 Properties” popup, use the drop down arrows to select:

Bits per second: **9600**

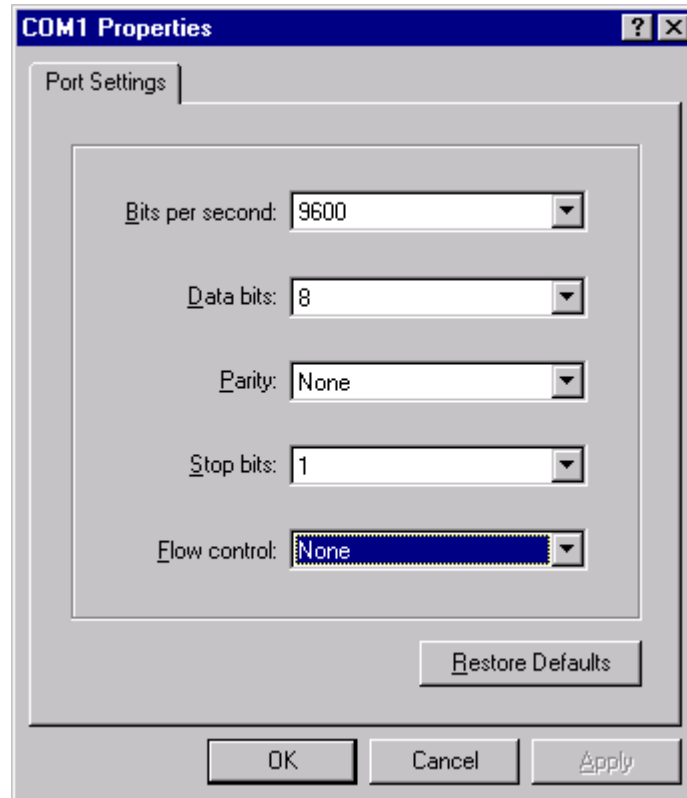
Data bits: **8**

Parity: **None**

Stop bits: **1**

Flow control: **None**

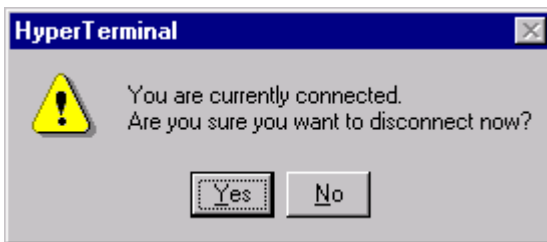
Then select **OK**.



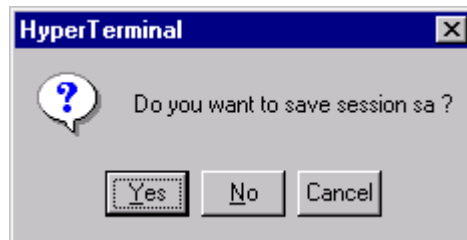
- b. When the HyperTerminal session window comes up, turn on the router. If the router is already on, press the **Enter** key. There should be a response from the router.
If there is, then the connection has been successfully completed.
- c. Record in the engineering journal the correct procedure for establishing a console session with the router.

Step 6 Closing the session

- a. To end the console session from a HyperTerminal session, select:
File > Exit
- b. When the HyperTerminal disconnect warning popup appears, select **Yes**.

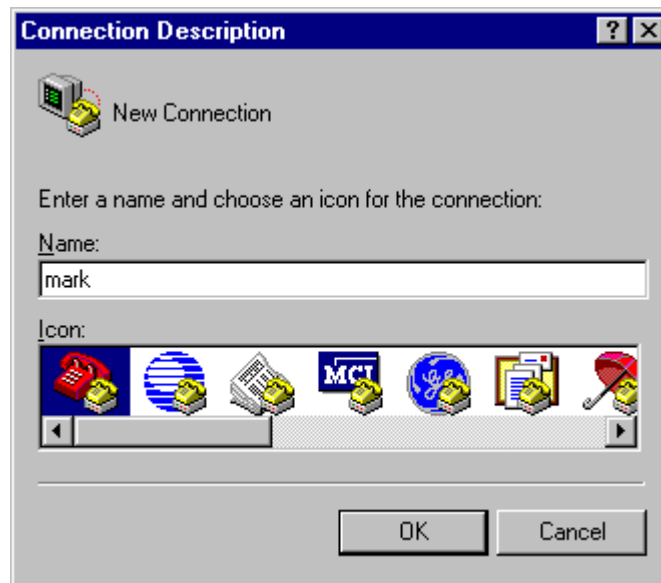


- c. The computer will then ask if the session is to be saved. Select **Yes**.



Step 7 Reopen the HyperTerminal connection, as shown in Step 2

- a. At the "Connection Description" popup, select **Cancel**.



- b. To open the saved console session from HyperTerminal, select:

File > Open

The saved session will now appear and by double-clicking on the name, the connection will open without reconfiguring it each time.

Step 8 Terminating the HyperTerminal session

- Close HyperTerminal.
- Shut down the router.

Upon completion of the previous steps, logoff by typing **exit**. Turn the router off.