

**Router On  
A Stick**  
*CIT 167*  
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I First set up the network according to the diagram. I then, Configured the Ip address, subnet masks, and default gateways for the PCs according the chart. I then, configured the Switch and router according to the handout.

Successfully able to ping PC3 from PC1.

```
C:\>ping 172.17.30.10

Pinging 172.17.30.10 with 32 bytes of data:

Reply from 172.17.30.10: bytes=32 time=1ms TTL=127
Reply from 172.17.30.10: bytes=32 time=1ms TTL=127
Reply from 172.17.30.10: bytes=32 time=1ms TTL=127
Reply from 172.17.30.10: bytes=32 time<1ms TTL=127

Ping statistics for 172.17.30.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

The diagram illustrates a network topology. On the left, a PC labeled 'PC-PT PC1' is connected to a switch labeled '2960-24TT S1'. The switch is connected to a router labeled '1941 R1'. The router is then connected to another PC labeled 'PC-PT PC3' on the right. All connections are shown as straight lines with green triangle markers at the endpoints, indicating active links.

Figure 1: Successful network setup