

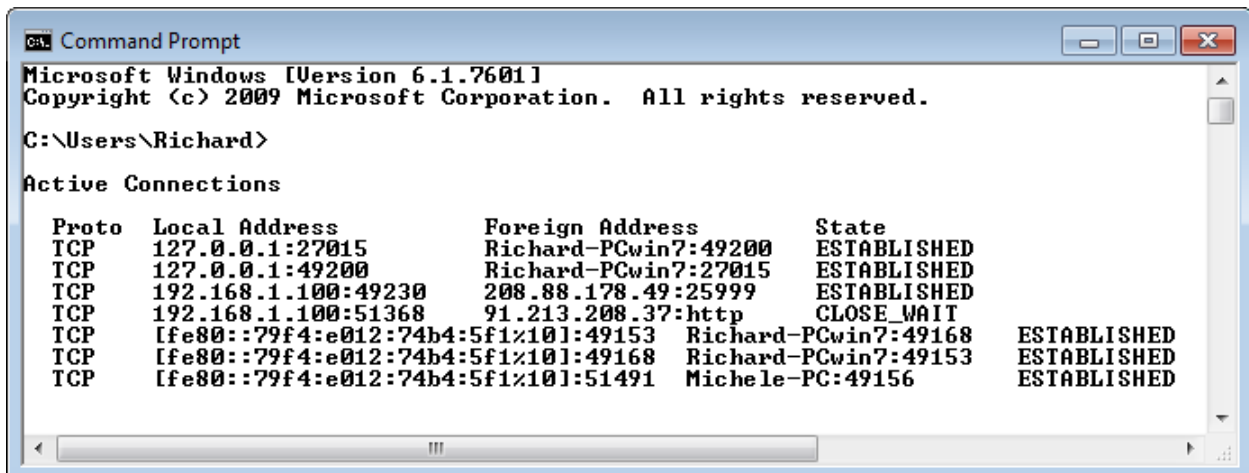
CompTIA Network+ Domain 5 Study Guide

5.0 Network Tools

Network Tools domain comprises approximately 12 % or 12 question on the CompTIA Network+ Certification Exam. You must be very familiar with network tools and be prepared to answer scenario-type questions relating to troubleshooting and network support. There is a corresponding practice test for Domain 5 located at www.RMRoberts.com.

5.1 Given a scenario, select the appropriate command line interface tool and interpret the output to verify functionality.

For each of the utilities listed below, provide a brief description of when you would most likely use that particular utility and what information would be revealed. Also make a screen capture of each utility so that you can identify by result which utility generated the screen display. For example, you should be able to identify which utility issued from the command prompt generated the following screen.



```
Microsoft Windows [Version 6.1.7601]
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C:\Users\Richard>
Active Connections

Proto Local Address           Foreign Address         State
TCP   127.0.0.1:27015          Richard-PCwin7:49200   ESTABLISHED
TCP   127.0.0.1:49200        Richard-PCwin7:27015   ESTABLISHED
TCP   192.168.1.100:49230    208.88.178.49:25999   ESTABLISHED
TCP   192.168.1.100:51368    91.213.208.37:http     CLOSE_WAIT
TCP   [fe80::79f4:e012:74b4:5f1%10]:49153 Richard-PCwin7:49168   ESTABLISHED
TCP   [fe80::79f4:e012:74b4:5f1%10]:49168 Richard-PCwin7:49153   ESTABLISHED
TCP   [fe80::79f4:e012:74b4:5f1%10]:51491 Michele-PC:49156       ESTABLISHED
```

- Traceroute
- Ipconfig
- Ifconfig
- Ping
- Arp ping
- Arp

- Nslookup
- Hostname
- Dig
- Mtr
- Route
- Nbtstat
- Netstat

5.2 Explain the purpose of network scanners

- Packet sniffers
- Intrusion detection software
- Intrusion prevention software
- Port scanners

5.3 Given a scenario, utilize the appropriate hardware tools

- Cable testers
- Protocol analyzer
- Certifiers
- TDR
- OTDR
- Multimeter
- Toner probe

- Butt set
- Punch down tool
- Cable stripper
- Snips
- Voltage event recorder
- Temperature monitor

This study guide has been provided by www.RMRoberts.com and may be used in your classroom to prepare your students for the CompTIA Network+ exam.