

6.9 Network Utilities

As you study this section, answer the following questions:

- What are the similarities and differences between **ping** and **tracert**?
- When would you use **tracert** instead of **tracert**?
- What information can you get from the **netstat** command?
- Which utilities can be used to perform remote management of servers?
- What is the difference between the **ifconfig** and **iwconfig** commands?
- Why should you use SSH over Telnet?

In this section, you will learn to:

- Explore configuration information
- Use **ifconfig**

Key terms for this section include the following:

Term	Definition
Ipconfig	A Windows command that displays IP configuration information for network adapters.
Ifconfig	A Windows and Linux command that displays the installed network interfaces and the current configuration settings for each interface.
Ping	A command that sends an ICMP echo request/reply packet to a remote host.
Tracert/traceroute	A command similar to ping that also shows the path between the two devices. Use tracert on Windows and tracert on Linux and Mac OS.
Nslookup	A command that resolves the IP address of the specified hostname.
Netstat	A command that displays IP-related statistics.
Nbtstat	A command that diagnoses issues regarding NetBIOS over TCP/IP.
Telnet	A remote server management network protocol.
Secure Shell (SSH)	A protocol similar to Telnet that also encrypts all communications and is much more secure.

This section helps you prepare for the following certification exam objectives:

Exam	Objective
TestOut PC Pro	2.4 Configure PC networking 2.4.4 Use network utilities

	<p>4.3 Troubleshoot networking</p> <p>4.3.2 Use networking utilities to view, test, and troubleshoot network configuration, communication, and connectivity issues</p>
CompTIA 220-1002	<p>1.4 Given a scenario, use appropriate Microsoft command line tools</p> <ul style="list-style-type: none">▪ ipconfig▪ ping▪ tracert▪ netstat▪ nslookup <p>1.9 Given a scenario, use features and tools of the Mac OS and Linux client/desktop operating systems</p> <ul style="list-style-type: none">▪ Basic Linux commands<ul style="list-style-type: none">▪ iwconfig/ifconfig <p>2.5 Compare and contrast social engineering, threats, and vulnerabilities</p> <ul style="list-style-type: none">▪ DoS

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