7.3 SOHO Configuration

As you study this section, answer the following questions:

- In a SOHO network, which types of devices are typically used to connect the location to the internet?
- What function does enabling NAT on the router provide for a SOHO network?
- What is the difference between a public IP address and a private IP address? What are the private IP address ranges?
- What are the advantages of turning off SSID broadcasting?
- What is the purpose of MAC address filtering?
- Once DHCP is disabled on a wireless access point, what three elements would an attacker have to configure to be able to connect?
- What guidelines should you consider when selecting the location of the access point to ensure the signal strength and network access?

In this section, you will learn to:

- Configure a wireless infrastructure

Key terms for this section include the following:

Term	Definition
Small home/home office network (SOHO)	A small office/home office network.
Network Address Translation (NAT)	A method for remapping one IP address space into another by modifying network address information in packets' IP headers while they are in transit.
Wi-Fi protected setup (WPS)	A network security standard for wireless home networks/
Home network	A profile designed for networks in which you know and trust every device.
Work network	A profile designed to be used in a SOHO.
Public Network	A profile designed for use on unknown networks.

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

Exam	Objective
TestOut PC Pro	2.4 Configure PC networking 2.4.3 Configure wired and wireless networking for a SOHO
CompTIA 220-1001	1.5 Given a scenario, connect and configure accessories and ports of other mobile devices.

- Connection types
    - Wired

2.3 Given a scenario, install and configure a basic wired/wireless SOHO network.

- Access point settings
- NIC configuration
    - Wired
    - Wireless

- End-user device configuration
- IP addressing
- Firewall settings

- DMZ
- Port forwarding
- NAT
- UPnP
- Whitelist/blacklist

- QoS
- Wireless settings

- QoS

2.4 Compare and contrast wireless networking protocols.

- Channels

- 1–11

CompTIA 220-1002	1.8 Given a scenario, configure Microsoft Windows networking on a client/desktop. - Home vs. Work vs. Public network settings