

6.6 IP Configuration

As you study this section, answer the following questions:

- What service is used to automatically assign TCP/IP configuration information to hosts?
- When assigning IP addresses to hosts, which portions of the configuration must match values used by other hosts in the same subnet?
- A router has two network interfaces, each connected to a different subnet. When configuring the default gateway value on a host, which IP address would you use?
- What capability does the DNS server address provide? What would happen if the computer was not configured to use a DNS server?

In this section, you will learn to:

- Configure TCP/IP settings
- Configure alternate TCP/IP settings

Key terms for this section include the following:

Term	Definition
IP address	A set of numbers that identifies both the logical host and the logical network addresses.
Subnet mask	A portion of an IP address that identifies which portion of the IP address is the network address and which portion is the host address.
Default gateway	An access point on an IP router that identifies the router to which communications for remote networks are sent.
Domain Name System (DNS) server	A server used to resolve host names to IP addresses.
Hostname	The logical name of the local system.
Static addressing	Manually configuring IP addresses for stations.
Dynamic Host Configuration Protocol (DHCP) server	A server that assigns IP address and other configuration to hosts to ensure error-free host configuration.
Automatic Private IP Addressing (APIPA)	Link-local addressing. If DHCP server cannot be reached, the host will assign itself an IP address.
Alternate IP configuration	An alternate static configuration assigned to host in case of DHCP failure.

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

Exam	Objective
TestOut PC Pro	2.4 Configure PC networking

	2.4.1 Configure client IP addressing, DNS, and DHCP
CompTIA 220-1001	<p>2.6 Explain common network configuration concepts</p> <ul style="list-style-type: none">IP addressing<ul style="list-style-type: none">StaticDynamicAPIPALink localSubnet maskGatewayIPv4 vs. IPv6DNS
CompTIA 220-1002	<p>1.6 Given a scenario, use Microsoft Windows Control Panel utilities</p> <ul style="list-style-type: none">Network and Sharing Center <p>1.8 Given a scenario, configure Microsoft Windows networking on a client/desktop</p> <ul style="list-style-type: none">Configuring an alternative IP address in Windows<ul style="list-style-type: none">IP addressingSubnet maskDNSGateway

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