

6.7 IP Version 6

As you study this section, answer the following questions:

- What is the primary reason for developing IPv6?
- How many hexadecimal numbers are in an IPv6 address?
- What do you add to an IPv6 address when you remove one or more quartets with all 0's?
- What information is included within the IPv6 address *prefix*?
- How many numbers are used for the interface ID?

Key terms for this section include the following:

Term	Definition
IPv6	It was developed because IPv4 addresses have been exhausted. The address is a 128-bit binary number.
Prefix	It's the first 64 bits of the IPv6 address.
Interface ID	It's the last 64 bits of the IPv6 address.

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