

## DHCP and Address Assignment Pools Overview

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The address-assignment pool feature supports subscriber management functionality by enabling you to create address pools that can be shared by different client applications. For example, multiple client applications, such as DHCP, can use an address-assignment pool to provide addresses for their particular clients. Client applications can acquire addresses for either authenticated or unauthenticated clients.

Address-assignment pools support both dynamic and static address assignment. In dynamic address assignment, a client is automatically assigned an address from the address-assignment pool. In static address assignment, you reserve an address that is then always used by a particular client. Addresses that are reserved for static assignment are removed from the dynamic address pool and cannot be assigned to other clients.

Address-assignment pools support named address ranges, which are subsets of the overall address range. A client application can use named ranges to manage address assignment based on client-specific criteria. For example, you might create a named range that is based on a specific DHCP option 82 value. Then, when a DHCP client request matches the specified option 82 value, an address from the specified range is assigned to the client.

**Related Topics** ■ [Configuring Address-Assignment Pools](#)

