



**CMP-3**

## Malicious DHCP Starvation Attack - SPECTRE

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Dynamic Host Configuration Protocol is a method for assigning Internet Protocol (IP) addresses permanently or to individual computers in an organization's network. DHCP lets a network administrator supervise and distribute IP addresses from a central point and automatically sends a new IP address when a computer is plugged into a different place in the network. DHCP is an unauthenticated protocol :

When connecting to a network, the user is not required to provide credentials in order to obtain a lease.

Malicious users with physical access to the DHCP-enabled network can instigate a denial-of-service attack on DHCP servers by requesting many leases from the server, thereby reducing the number of leases that are available to other DHCP clients.