**Question:** You suspect there might be an issue with your network connection. How can you check if your computer is able to communicate with a remote server using Windows Command Prompt?

Scenario 2: **Question:** Your network seems slow, and you want to identify which devices are consuming the most bandwidth. How can you list all the active connections on your Windows machine?

Scenario 3: **Question:** You suspect that a specific port on a remote server might be closed. How can you test if a port is open using Windows Command Prompt?

Scenario 4: **Question:** You need to check the DNS resolution of a domain. How can you verify if your Windows machine can resolve a domain name to an IP address?

Scenario 5: **Question:** You want to test the connectivity between two computers on the same local network. How can you check if one computer can reach another?

Scenario 6: **Question:** Your network connection occasionally drops, and you suspect it might be due to a DHCP issue. How can you check the DHCP lease information on your Windows machine?

Scenario 7: **Question:** You want to test the speed of your internet connection using Windows Command Prompt. How can you measure the network speed?

Scenario 8: **Question:** You suspect there might be a network issue with a specific website. How can you check the route your data takes to reach that website?

Scenario 9: **Question:** You want to check if a specific port is listening on your Windows machine. How can you verify this using Command Prompt?

**Answer:** Utilize the netstat command with the -a option. For instance, type netstat -a | find "8080" to check if port 8080 is listening.

Scenario 10: **Question:** Your computer is unable to obtain an IP address automatically from the DHCP server. How can you manually release and renew the IP address using Windows Command Prompt?