Telnet is an early network protocol and command-line utility used to establish a virtual terminal session with a remote computer over a TCP/IP network, allowing users to interact with the remote system's command line. While historically used for accessing remote servers, its lack of encryption makes it insecure for transmitting sensitive data and has led to its replacement by more secure protocols like [SSH](https://www.google.com/search?sca_esv=48766ecc3616e8f9&sxsrf=AE3TifNrmJr3BJiWxKjVOqwzL0MjX9mBHA%3A1755969169254&q=SSH&sa=X&ved=2ahUKEwjXrcf0tqGPAxXiSGwGHex6DMYQxccNegQIHxAB&mstk=AUtExfD38DPWdaGe9R006a8Dntwn9S9n5xTkt0PoIG3_kx1HpTvO6ygdfxVUAsHCntBigVDdp52gyRXz33CKb-tjSeyptg2D2bYZVjM6vO5lbv6xVienwKz1YsHOSZHC_e3ZJDMU58eazEfUQAZTBmAI0LCcPLMHH3vgekCsnA9K5C0PcVxTwlKAA_t7maYw9dIWKcEum0zCnQExue5yFlfkYs-LCUL-qSbzS-kAhjr8pkpYnsHzJnAQctUkSu9hY9qSqLPb5TGxqSYE4jVxkXtK4Wu9&csui=3). However, Telnet remains useful for testing network connectivity to specific TCP ports and for managing certain legacy network devices.

How Telnet Works

1. 1. **Client-Server Model**:

A Telnet client initiates a connection to a Telnet server on a remote computer.

1. 2. **TCP/IP**:

The connection is established over the Transmission Control Protocol/Internet Protocol (TCP/IP), typically on TCP port 23.

1. 3. **Virtual Terminal**:

Once connected, the client and server establish a virtual terminal, enabling the client to send commands to the remote system and receive text-based output.

What tool do we use to interact with the operating system in order to issue commands via the command line, such as the one to start our VPN connection? It's also known as a console or shell.

What service do we use to form our VPN connection into HTB labs?

What tool do we use to test our connection to the target with an ICMP echo request?

What is the name of the most common tool for finding open ports on a target?

What service do we identify on port 23/tcp during our scans?

What username is able to log into the target over telnet with a blank password?