

Application Layer Remote Communication Protocols

- Telnet
- Secure Shell (SSH)
- Remote Desktop Protocol (RDP)



Telnet

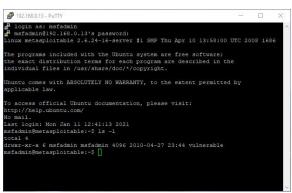
Port: 23 Transport Layer Protocol: TCP

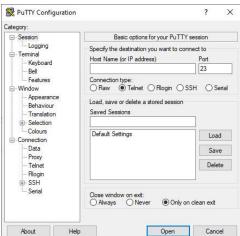
- Legacy protocol used to "insecurely" connect to a remote host
 - Data is transferred in clear text, so it's considered insecure
 - Largely replaced by SSH

Today it's primarily used to access managed network devices, such as routers via a

serial connection

Use TCP Port 23 by default



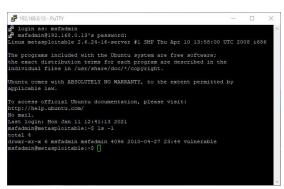


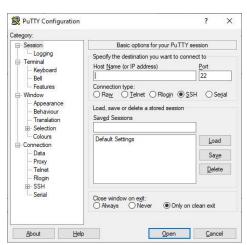


Secure Shell (SSH)

Port: 22 Transport Layer Protocol: TCP

- A cryptographic protocol that's used to securely connect to a remote host
 - Utilizes a terminal console
 - Typically Unix and Linux Machines, but also available on Windows and Mac OS
- Encrypts data with public key infrastructure (PKI), making it secure
 - Considered secure replacement for Telnet
- Uses TCP port 22 by default







Remote Desktop Protocol (RDP)

Port: 3389 Transport Layer Protocol: TCP

A Microsoft protocol that allows users to remotely connect to, view, and control a remote computer from a Windows desktop.

- Built into the Microsoft operating system.
- Uses TCP port 3389 by default

