

Computer Networks LAB

1. Identify and demonstrate the basic commands used in networking such as ipconfig, ping, tracert, nslookup, etc.
2. Apply knowledge of different types of network cables and connectors to establish physical connections in a network setup.
3. Configure IP addresses (IPv4 and IPv6) on network devices including PCs, routers, and switches.
4. Analyze and design a local area network (LAN) using switches and bridges.
5. Explain the functionality and configuration of Windows Defender Firewall for network security.
6. Identify and troubleshoot common networking issues related to I/O boxes and fix them accordingly.
7. Design and implement a Virtual Private Network (VPN) using Packet Tracer to establish secure remote connections between network devices.