Task 1: Learn Network Security Concepts

Network Threats:

Virus:

A malicious program that attaches to files and replicates itself to spread. Often damages or corrupts files.

Worm:

Self-replicating software that spreads across networks without user intervention, often consuming bandwidth or overloading systems.

Trojan:

A type of malware disguised as legitimate software that enables unauthorized access or control once installed.

Phishing:

A social engineering attack that tricks users into revealing personal or sensitive information via deceptive emails or websites.

Basic Security Concepts:

Firewall:

A hardware or software security system that monitors and controls incoming and outgoing network traffic based on predetermined rules. Protects against unauthorized access.

Encryption:

The process of converting data into a coded format to prevent unauthorized access. Ensures confidentiality during data transmission or storage.

Secure Network Configuration:

Involves best practices like changing default passwords, disabling unused ports, and using WPA2/WPA3 for Wi-Fi security to reduce vulnerabilities.