**Week 2: Network Commands & Tools**

**Objective:** Learn essential networking commands and tools.

**Task#04: Identify and explain each open port and its associated service.**

**Solution:**

Based on the Nmap scan output provided, the only open port identified on the machine at 192.168.213.128 is:

* **Port 22/tcp - Service: SSH (Secure Shell)**
  + **Explanation:** SSH is a cryptographic network protocol that allows secure remote access to a computer. When port 22 is open and running the SSH service, it means that the Kali Linux VM is configured to accept incoming secure shell connections. This allows users to remotely log in to the Kali machine via a command-line interface, execute commands, and transfer files securely over an encrypted connection. It's a fundamental service for managing Linux servers and is often enabled for remote administration and penetration testing activities.

