**Steps to Scan Open Ports Using Nmap in Kali Linux**

1. **Opened Terminal in Kali Linux.**
2. **Checked if nmap is installed:**

bash

nmap --version

1. **Installed nmap using APT (if not already installed):**

bash

sudo apt install nmap

1. **Found the system's IP address:**

bash

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 **Performed a basic Nmap scan on localhost:**

bash

sudo nmap 127.0.0.1

 **No ports were open initially.**

 **Started Apache2 web server to open port 80:**

bash

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sudo service apache2 start

 **Ran an aggressive Nmap scan to detect open ports and services:**

Bash

sudo nmap -A 127.0.0.1

 **Observed that port 80 was open with Apache running (http service detected).**



