## Task 1: Scan Your Local Network for Open Ports

## **Objective**: Learn to discover open ports on devices in your local network to understand network exposure.

 Step 1:installing nmap in kali linux by using "command:sudo apt install nmap"

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Step 2:identify our local ip\_address by using "command:if\_config"

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• Step 3:Run: nmap -sS 192.168.12.129 to perform TCP SYN scan

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• Step 4: Optionally analyze packet capture with Wireshark.

