

# **Ethical Hacking Assignment (3)**

## **Q) Assignment\_3 What is the difference between ACK Scan (-sA) and Firewall Scan 2 (-PN)?**

**-sA (ACK Scan):** This is a scan type. Its purpose is to map firewall rules by determining if ports are filtered (blocked by a firewall) or unfiltered (reachable). It can't tell if a port is actually open or closed.

**-PN (No Ping):** This is a host discovery option. It tells Nmap to skip the "ping" check and just assume the target is online. You use this when a firewall blocks the initial ping, which would otherwise make Nmap think the host is "down" and not scan it.

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