

Purpose

Process

Tools

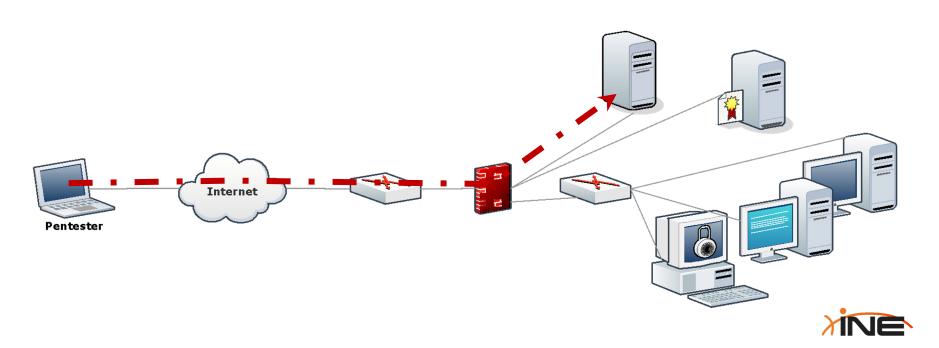
Port Scanning

Purpose

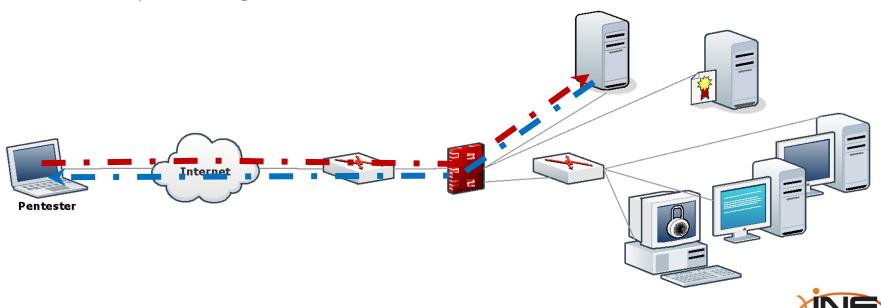
- + Identify OperatingSystem
- + Identify Services

- + Revealed by Signatures
- + Revealed by Services

+ Send **requests**



- + Examine response
- + Compare to **signature** database



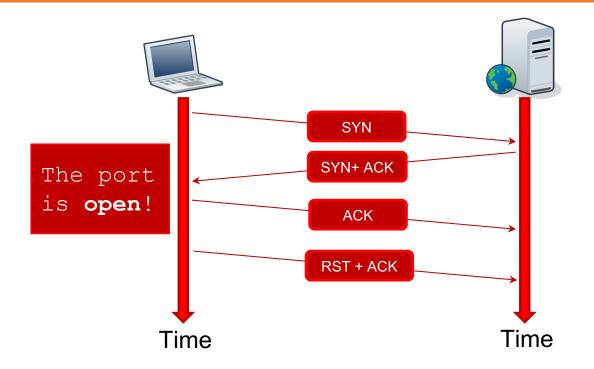
IP Address	OS	Confidence
200.200.3.1	PAN-OS	85%
200.200.3.10	Linux 3.7	100%
200.200.3.78	Linux 2.6.19 – 2.6.36	90%
200.200.4.12	Windows 7 SP1	100%
200.200.4.16	Windows 7 SP1	75%
200.200.4.18	FreeBSD	85%
200.200.4.19	HP-OS	78%



Scanning for Services

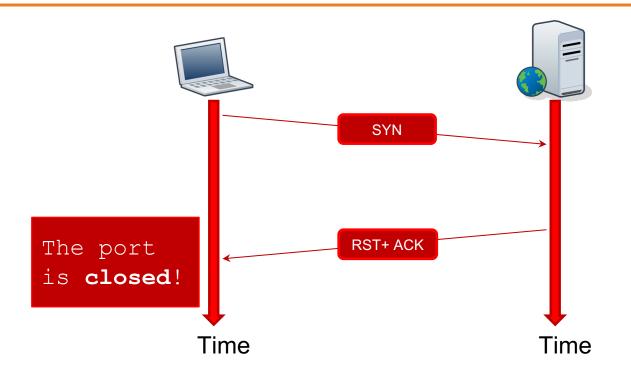
- + Try to connect to ports
- + Check for responses

Connect to TCP



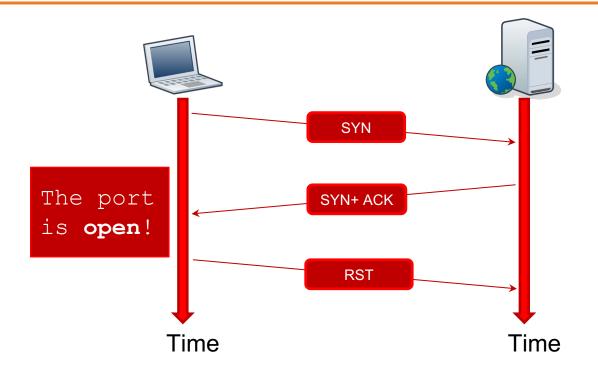


Connect to TCP



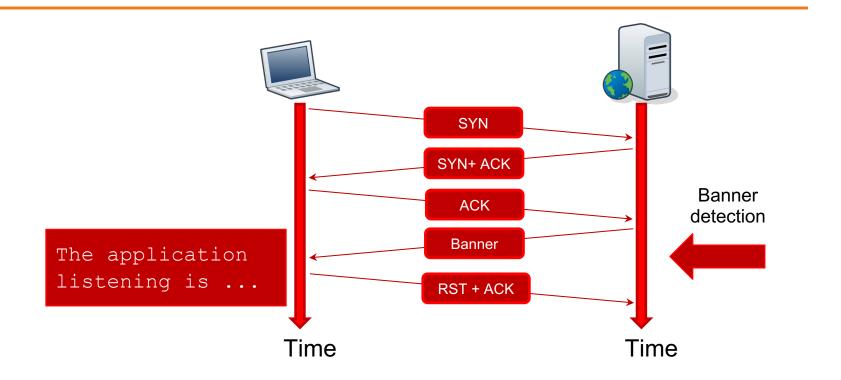


Connect to TCP - "Stealthy"





Connect to TCP - Service Version



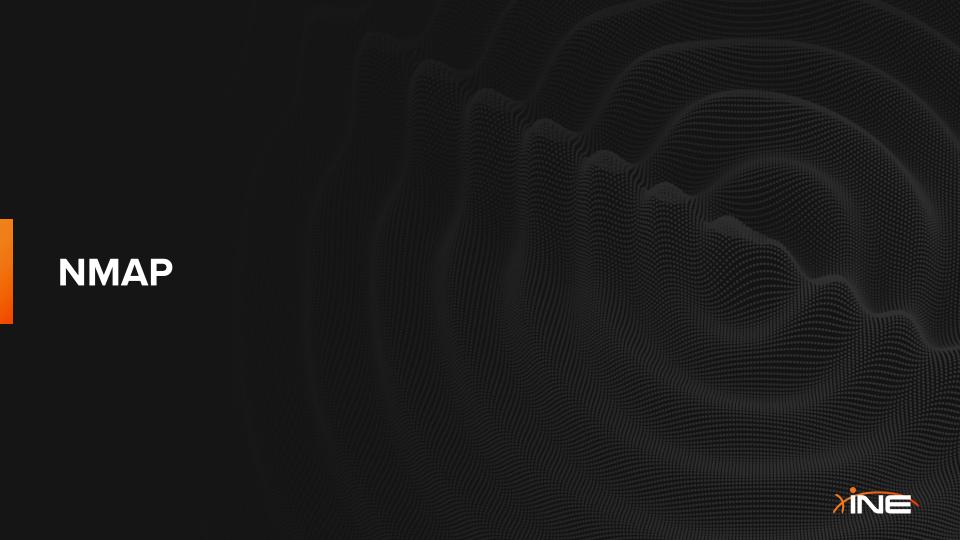


Connect to UDP

+ Slower

+ Open|filtered

+ Can be sped up



Other tools

- + Zenmap GUI NMAP
- + NMAP Automator
- + Masscan
- + Rustscan
- + Autorecon