	Nmap QuickStart Guide	insecure.org
What is Nmap?	Port Scanning	Service Scans
Nmap is the world's most popular port scanner which has additional capabilities added over time. Created by Gordon "Fyodor" Lyon in 1997, Nmap runs on most operating systems. A GUI version named Zenmap is also available.	Scan a Single Host – Default TCP Ports Example: nmap 192.168.1.5  Scan a Single Host – Default UDP Ports Example: nmap -sU 192.168.1.5	Service scans can be used to determine the actual service/application running on an open port. Returned information can be used for determining the potential existence of vulnerabilities.
You can find Nmap at insecure.org.  WARNING	Scan a Single Host – All TCP ports Example: nmap 192.168.1.5 -p-	Conduct a Service Scan on Default TCP Ports Ex: nmap -sV 192.168.1.5
Port scanning can have unintended consequences	Scan a TCP Specific Port on a Single Host	The Nmap Scripting Engine (NSE)
in network environments, particularly in ICS/OT networks. Ensure you have authorization and	Example: <b>nmap 192.168.1.5 -p 80</b>	The Nmap Scripting Engine (NSE) provides additional capabilities beyond port scanning and
understand the potential ramifications of scanning a particular network before doing so.	Scan a UDP Specific Port on a Single Host Example: nmap -sU 192.168.1.5 -p 161	service detection. Scripts can be written in LUA and stored in the Nmap /scripts folder.
Finding Hosts	Default TCD Dart Coan On All Heats on Submat	
Ping Sweep – Find hosts with ICMP responses Example: nmap -sP 192.168.1.0/24	Default TCP Port Scan On All Hosts on Subnet Example: nmap 192.168.1.0/24	Conduct a Script Scan with Default Scripts Ex: nmap -sV -sC 192.168.1.5
ARP Scan – Find hosts with ARP broadcasts Example: nmap -PR 192.168.1.0/24	Display Only Open Ports (No Closed/Filtered) Example: nmap 192.168.1.0/24 -p 80open	Conduct a Script Scan with Only a Specific Script Ex: nmap 192.168.1.5 -p 21script ftp-anon
DNS Lookup – Lookup hostnames by IP Example: nmap -sL 192.168.1.0/24	Exclude Hosts from a Network Scan Example: nmap 192.168.1.0/24exclude 192.168.1.132	Conduct a Script Scan with All Related Scripts Ex: nmap 192.168.1.5 -p 21script "ftp*"
Performance Settings	192.100.1.132	Nmap Output
Nmap allows for performance tuning using the -T switch. The speed at which Nmap scans targets can be adjusted. The faster the scan, the more	OS Fingerprinting Example: nmap -O 192.168.1.5	Nmap can save its output in several formats.  -oN: Normal text format
you risk bringing down a network or being	Scan a Host List from Text File	-oX: XML format
discovered with network security monitoring.	Example: nmap -iL hosts.txt	-oG: Grepable format
-T0 (Paranoid) -T3 (Normal / Default)	Almon "Doos it All" (o.g. north coming and arrive	-oA: All three of the above at one time -oS: s  <rlpt format<="" k ddi3="" td=""></rlpt>
-T1 (Sneaky) -T4 (Aggressive)	Nmap "Does it All" (e.g., port, service and script scans, OS fingerprinting and traceroute)	os. Sperior industrial
-T2 (Polite) -T5 (Insane)	Example: nmap -A 192.168.1.5	Ex: nmap 192.168.1.0/24 -oN results.txt