Lab 10-2-2: Testing and Monitoring our SCADA HoneyPot

Lab Requirement

- Ubuntu Machine (Honeypot already setup)
- Kali Linux Machine

Step #1 Scan with nmap

```
(root najd)-[/home/najd]

#nmap -A -Pn -p1-1000 192.168.1.161

Starting Nmap 7.92 (https://nmap.org 22-02-08 11:03 EST

Nmap scan report for 192.168.1.161

Host is up (0.0000080s latency).

All 1000 scanned ports on 192.168.1.161 are in ignored states.

Not shown: 1000 closed tcp ports (reset)

Too many fingerprints match this host to give specific OS details

Network Distance: 0 hops

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/

Nmap done: 1 IP address (1 host up) scanned in 2.05 seconds
```

Step #2 Metasploit Scan on the Honeypot

```
msf6 auxiliary(scanner/scada/modbusdetect) > exploit
[*] 192.168.1.161:502 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/scada/modbusdetec) > use auxiliary/scanner/scada/modbus_findunitid
msf6 auxiliary(scanner/scada/modbus_findunitid) > show options
                                                itic) > show options
msf6 auxiliary(s
Module options (auxiliary/scanner/scada/modbus_findunitid):
 Name
            Current Setting Required Description
 BENICE 1
                     yes Seconds to sleep between StationID-probes, just for beeing nice
 RHOSTS
                     yes The target host(s), see https://github.com/rapid7/metasploit-fr
                    amework/wiki/Using-Metasploit
 RPORT 502
                     yes The target port (TCP)
                     yes Timeout for the network probe, 0 means no timeout
 TIMEOUT 2
                      yes ModBus Unit Identifier scan from value [1..254]
yes ModBus Unit Identifier scan to value [UNIT_ID_FROM..254]
 UNIT_ID_FROM 1
 UNIT_ID_TO 254
msf6 auxiliary(scanner/scada/modbus_findunitic) > set rhosts 192.168.1.161
rhosts => 192.168.1.161
msf6 auxiliary(scanner/scada/modbus_findunitid >
```

```
Auxiliary module execution completed
msf6 auxiliary(scanner/scada/modbus_findunitic) > set rhosts 192.168.1.166
rhosts => 192.168.1.166
msf6 auxiliary(scanner/scada/modbus_findunitid) > exploit
[*] Running module against 192.168.1.166
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 1
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 2
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 3
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 4
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 5
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 6
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 7
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 8
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 9
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 10
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 11
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 12
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 13
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 14
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 15
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 16
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 17
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 18
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 19
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 20
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 21
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 22
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 23
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 24
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 25
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 26
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 27
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 28
[+] 192.168.1.166:502 - Received: correct MODBUS/TCP from stationID 29
```

