Solution Guide: Alert - FTP File Extraction

The goal of this activity was to reinforce concepts related to network security monitoring and the NSM Detection stage processes of Collection and Analysis.

- Use the following attack profile provided by your junior analyst to complete this exercise.
 - O Destination port: 21
 - O Destination IP: 130.89.149.129 (server)
 - Source IP: 192.168.10.128 (victim)
- 1. From the Squil analyst console, perform a query by IP against the destination IP 130.89.149.129, and bring up the Event Query window.
- 2. Using the information presented in the Event Query window, highlight the alert that contains the IP 130.89.149.129, and answer the following questions:
 - In the Packet Data window, what was the FTP server response and what type of file was downloaded?
 - Response: RETR . File type: .exe or executable
 - What Snort rule triggered this alert?
 - alert tcp \$HOME_NET any -> \$EXTERNAL_NET 21
 - What is the Snort message?
 - ET INFO .exe File requested over FTP
 - What is the direction of traffic flow indicated by this alert?
 - Outbound from \$HOME_NET
 - o Looking at the DNS resolution information contained in the IP Resolution Window, in what country is the victim located?
 - The Netherlands
- 3. Switch from Squil to NetworkMiner, select the Parameters tab, and answer the following questions.
 - What username and password did the attacker use to log into the system?
 - Username: anonymous
 - Password: IEUser@
 - Was the login successful?
 - Yes
 - $\circ\;$ What is the name of the file the attacker tried to install on the victim's machine?
 - mirc635.exe
 - What the file transfer successful?
 - No
- 4. In NetworkMiner, click on the **Hosts (2)** tab, right-click the IP 130.89.149.129, and select **Expand All**. Answer the following questions.
 - What is the MAC or hardware address of the server's network interface card (NIC)?
 - 00:18:39:F7:3E:D2
 - What is the vendor of the NIC for the server's machine?
 - Cisco-Lynksys
 - What is the MAC or hardware address of the victim's machine?
 - 00:0C:29:9C:AA:25
 - What is the vendor of the NIC for the victim's machine?
 - VMware

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- What operating system is the victim is using?
 - Windows
- o Looking at the Host Details portion of the server window, what URL did the attacker connect to in order to begin the file transfer?
 - ftp.snt.utwente.nl
- 5. Using the Chromium browser built into Security Onion, visit www.virustotal.com and perform a search against the URL that you discovered.
 - How many virus engine matches come back?
 - Zero
 - o Is this URL malicious?
 - No

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