DanaBot Lab

Created	@August 18, 2025 3:19 PM

Scenario

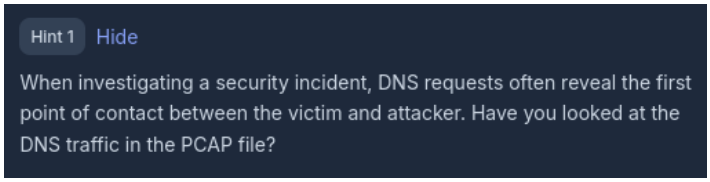
The SOC team has detected suspicious activity in the network traffic, revealing that a machine has been compromised. Sensitive company information has been stolen. Your task is to use Network Capture (PCAP) files and Threat Intelligence to investigate the incident and determine how the breach occurred.

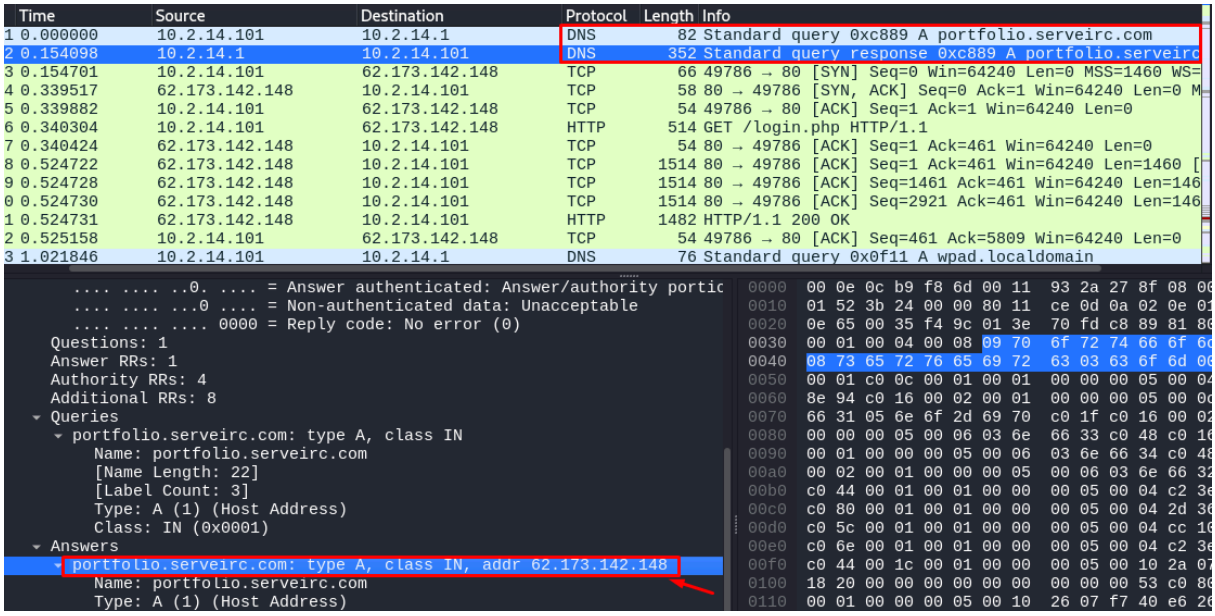
Introduction

In this lab, we delve into a network forensics investigation to analyze a cyber attack involving the `Dana Bot` malware. The `SOC` (Security Operations Center) team has identified suspicious activity within network traffic, which reveals that a machine in the network has been compromised. This breach has led to the exfiltration of sensitive company data. As a cybersecurity analyst, your objective is to investigate the incident using a `PCAP` (Packet Capture) file and associated threat intelligence to uncover how the compromise occurred and to identify key details about the attack.The lab focuses on dissecting the tactics, techniques, and procedures (TTPs) used by the attacker,including reconnaissance, initial access, execution, and persistence. You will utilize `Wireshark` to extract and analyze critical network artifacts, such as malicious files and communication with external servers. By deobfuscating JavaScript code and examining related artifacts, you will uncover how the malware gained a foothold in the network, executed additional payloads, and maintained its presence. This lab provides a comprehensive opportunity to practice real-world forensic skills and gain deeper insights into detecting and responding to sophisticated malware attacks.

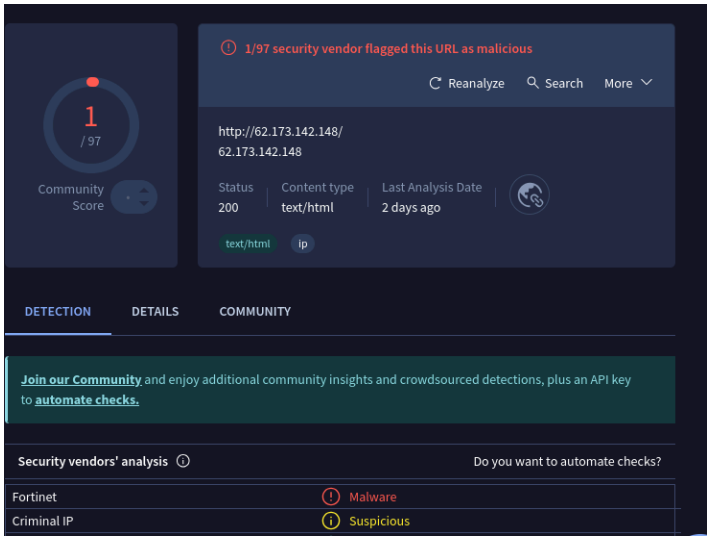
Initial Analysis

Q1 Which IP address was used by the attacker during the initial access?



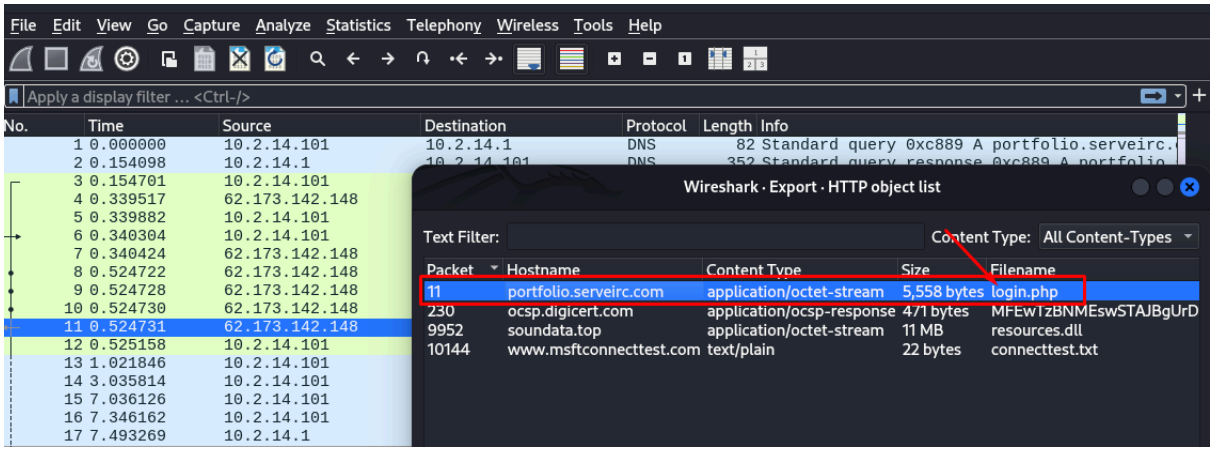


By analyzing the PCAP file, we see a DNS request made to `portfolio.serveirc.com`.In fact paste dns ip into Virustotal to verifies if its a malicious vendor

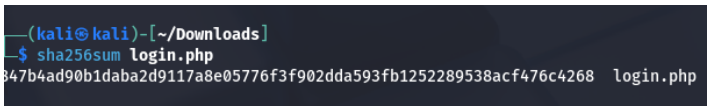


Q2 What is the name of the malicious file used for initial access?

To begin investigating the incident involving the Dana Bot malware, we start by analyzing the network capture file using Wireshark. The main goal is to identify the malicious file used for initial access. We first start by examining the files in Wireshark's HTTP object export feature. This is accessible by navigating to `File → Export Objects → HTTP`.



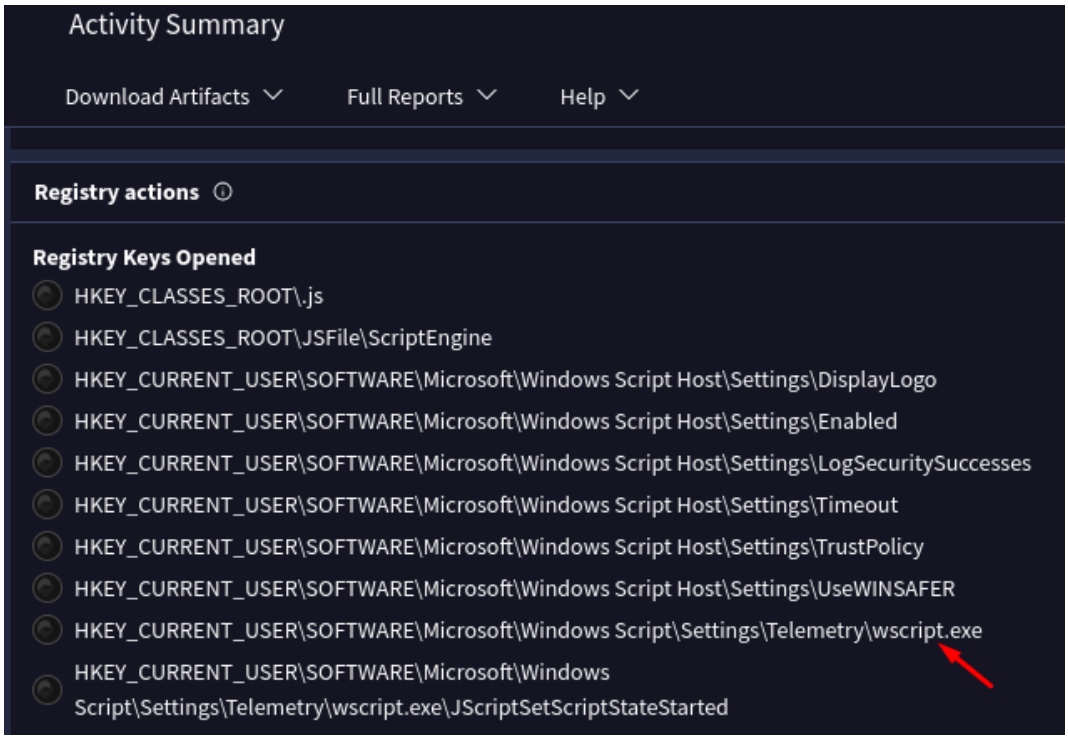
Q3 What is the SHA-256 hash of the malicious file used for initial access?



The SHA-256 hash of the malicious file used for initial access can be computed using the following bash command.

```
sha256sum login.php
```

Resulting in the hashvalue: `847b4ad90b1bda2d9117ae05776f3f902dda593fb15222895938acf476c4268`.
Use this filehash to check in VirusTotal: Click on Behaviour and scroll down to registry actions section



Q5 What is the file extension of the second malicious file utilized by the attacker?

As can be seen from the previous analysis, the second file which was downloaded by the obfuscated script is `resources.dll` and has a `.dll` extension

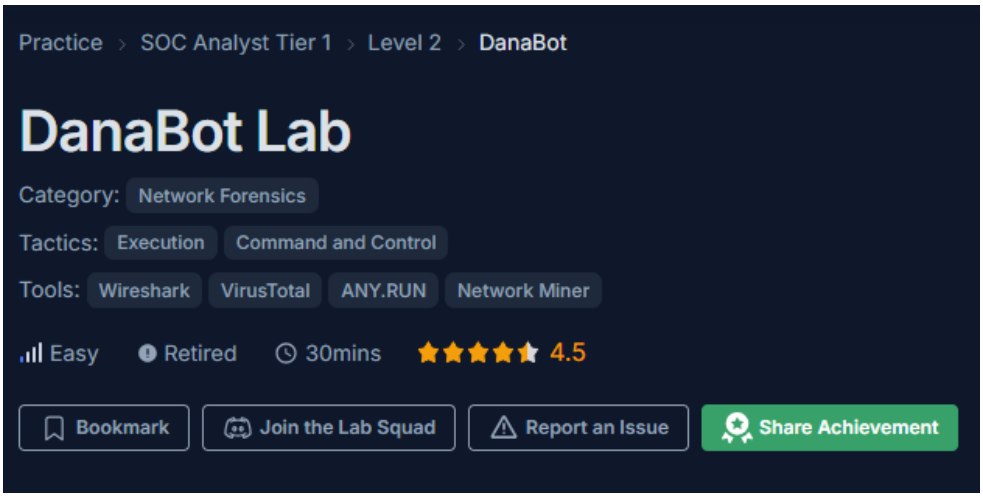
Q6 What is the MD5 hash of the second malicious file?

extract file from wireshark then use command md5sum t

Conclusion

This is one of a very useful Challenge that I get to refresh my skills using Wireshark tool pcap analysis, Hashing understanding and Virustotal Research in findings IoCs.

Simply the website was already infected with trojan to spread to other devices.


Practice › SOC Analyst Tier 1 › Level 2 › DanaBot
DanaBot Lab
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Tactics: Execution Command and Control
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