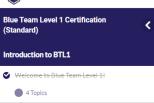
29% COMPLETE 85/287 Steps < Previous Topic Next Topic >



SECURITY FUNDAMENTALS DOMAIN

1 Topic

Lab and Forum Access

Soft Skills

7 Topics

Security Controls

5 Topics | 1 Quiz

Networking 101

6 Topics | 1 Quiz

Management Principles

4 Topics | 1 Quiz

PHISHING ANALYSIS DOMAIN

PA1) Introduction to Emails and Phishing

7 Topics | 1 Quiz

PA2) Types of Phishing Emails

■ 10 Topics | 2 Quizzes

12 Topics | 2 Quizzes

A PA4) Investigating a Phishing Email

8 Topics | 2 Quizzes

PA5) Analysing URLs, Attachments, and

8 Topics | 1 Quiz

Section Introduction, Analysing Artifacts

✓ Visualization Tools

⋖ URL Reputation Tools

❤ File Reputation Tools

Malware Sandboxing

(Video] Manual Artifact Analysis Artifact Analysis With PhishTool

Activity) End of Section Review, Analysing

C PA6) Taking Defensive Actions

12 Topics | 1 Quiz

O PA7) Report Writing

7 Topics | 1 Quiz

O PA8) Phishing Response Challenge

3 Topics | 1 Quiz

THREAT INTELLIGENCE DOMAIN

TI1) Introduction to Threat Intelligence

7 Topics

TI2) Threat Actors & APTs

6 Topics | 2 Quizzes

TI3) Operational Threat Intelligence

7 Topics | 1 Quiz

File Reputation Tools

Blue Team Level 1 Certification (Standard) > PA5) Analysing URLs, Attachments, and Artifacts > Fil... COMPLETE

Phishing Analysis FILE REPUTATION TOOLS



In this lesson, we will show you a couple of the many online services where you can upload suspicious attachments or their associated hashes in order to see their reputation within the security community. The tools we will cover are; VirusTotal and Talos File Reputation. This is a quick way to be able to identify if a file has been marked as malicious by the security community, without having to conduct a full analysis. It is extremely important to remember that if something is not being identified as malicious by online reputation tools, it does not mean it is safe. We're sure you've heard of the phrase "innocent until proven guilty" – we need to use the opposite here. Assume that these files are malicious until you can prove it is safe to run.

VIRUSTOTAL

 $Virus Total\ is\ an\ incredible\ platform\ where\ you\ can\ upload\ files,\ search\ for\ IP\ addresses,\ domains,\ URLs,\ and\ other\ platform\ where\ you\ can\ upload\ files,\ search\ for\ IP\ addresses,\ domains,\ URLs,\ and\ other\ platform\ platform\$ artifacts to retrieve a community-generated reputation value, and to see which security vendors have identified the searched artifact as malicious

The feature we're interested in is the file upload function, where you can upload any kind of file to see more information about it.



e suspicious files and URLs to detect types of malware



In this example, we're going to upload an old piece of malware, which we know will be detected by a number of security vendors - this will allow you to see what malicious files look like once they've been submitted for analysis. In the below screenshot you can see that 63/72 vendors have detected this file to be malicious. In the top bar, it tells us that the file size is 402.33 KB and is a .exe file. If you upload a file that has even a few engines/vendors in red, then the file is most likely malicious in nature and defensive measures should be put in place (we'll cover this later).



114) lactical Threat Intelligence
7 Topics 1 Quiz
TI5) Strategic Threat Intelligence
5 Topics 1 Quiz
TI6) Malware and Global Campaigns
6 Topics 1 Quiz
DIGITAL FORENSICS DOMAIN
DF1) Introduction to Digital Forensics
5 Topics
DF2) Forensics Fundamentals
■ 10 Topics 5 Quizzes
DF3) Digital Evidence Collection
8 Topics 1 Quiz
 DF4) Windows Investigations
3 Topics 3 Quizzes
O DF5) Linux Investigations
4 Topics 2 Quizzes
O DF6) Volatility
3 Topics 1 Quiz
O DF7) Autopsy
4Topics 1 Quiz
SECURITY INFORMATION AND EVENT
MANAGEMENT DOMAIN
SI1) Introduction to SIEM
7 Topics 1 Quiz
SI2) Logging
6 Topics 2 Quizzes
SI3) Aggregation
2 Topics 1 Quiz
SI4) Correlation
6 Topics 1 Quiz
SI5) Using Splunk
5 Topics 2 Quizzes
INCIDENT RESPONSE DOMAIN
IR1) Introduction to Incident Response
8 Topics 1 Quiz
IR2) Preparation Phase
10 Topics 2 Quizzes
IR3) Detection and Analysis Phase
7 Topics 4 Quizzes
IR4) Containment, Eradication, and Recovery
Phase
5 Topics 1 Quiz
IR5) Lessons Learned and Reporting
● 7 Topics
○ IR6) MITRE ATT&CK
13 Topics 2 Quizzes
BTL1 EXAM
Exam Preparation
Using RDP and SSH
How to Start Your Exam

AegisLab	1 Trojan:Win32:KillProc.4lc	AhnLab-V3	1 Trojan/Win32.Generic.C2457510
Alibaba	1 Trojan:Win32/KillProc.de77fafd	ALYac	(1) Gen:Variant.Johnnie.97338
Antiy-AVL	1 Trojan/Win32 AGeneric	SecureAge APEX	① Malicious
Arcabit	① Trojan Johnnie D17C3A	Avast	(1) Win32-Malware-gen
AVG	Win32 Malware-gen	Avira (no cloud)	① TR/Crypt.XPACK.Gen
BitDefender	Gen: Variant. Johnnie. 97338	BitDefenderTheta	① Gen.NN ZexaF.34104.zuZ@aqb60fii
Bkav	(1) W32 AlDetectVM malware2	CAT-QuickHeal	1 Trojan.IGENERIC
Comodo	① Malware@#11jo4yb7z4m1u	CrowdStrike Falcon	() Win/malicious_confidence_100% (W)
Cybereason	① Malicious.72e166	Cylance	① Unsafe
Cyren	W32/Agent.AYT.genlEldorado	DrlWeb	1 Trojan Siggen 8.20721
Emsisoft	() Gen: Variant Johnnie. 97338 (B)	Endgame	Malicious (high Confidence)
eScan	Gen: Variant Johnnie. 97338	ESET-NOD32	A Variant Of Win32/Agent.VQU
F-Prot	W32/Agent.AYT.genlEldorado	F-Secure	1 Trojan:TR/Crypt:XPACK:Gen
FireEye	① Generic.mg.0c4374d72e166f15	Fortinet	① W32/Agent.VQUItr
GData	() Gen: Variant Johnnie. 97338	Ikarus	1 Trojan Win32 Agent
Jiangmin	1 Trojan Generic crivas	K7AntiVirus	① Trojan (00497c8b1)
K7GW	① Trojan (00497c8b1)	Kaspersky	HEUR: Trojan, Win32, Kill Proc. gen
Malwarebytes	1 Trojan Dropper	MAX	① Malware (ai Score=100)

It's important to remember that VirusTotal isn't a one-stop shop. A file that isn't flagging as malicious in VirusTotal could still be malicious – it just means that it hasn't been detected by security vendors yet. Whilst VT can give a good indicator as to the reputation of the file or other artifacts, further investigation should still be conducted to ensure that the file either is malicious or safe.

TALOS FILE REPUTATION

This service, offered by Cisco, allows us to search for SHA256 strings against their reputation database to determine if it has been classed as malicious by their products; AMP, FirePower, ClamAV, and open-source Snort product lines. This database of information is called the "Talos File Reputation system".

In the previous lesson, I covered how to retrieve file hashes in both Windows and Linux operating systems. So I'll generate a SHA256 hash using PowerShell on my Windows host, and plug that into Talos File Reputation. I'm using the same piece of malware that I submitted to VirusTotal, so we're expecting to see that it is recognized as malicious straight away.

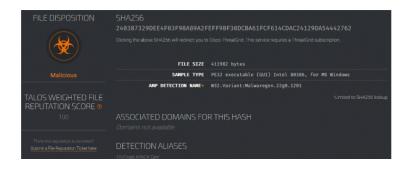


Using PowerShell on Windows to get the SHA256 hash using the "get-filehash" command with the "-algorithm sha256" switch.



Using Linux Command Line to get the SHA256 hash using the "sha256sum" command.

Now that we've retrieved the SHA256 hash value we can upload it to TFR to check the reputation of the file. The results clearly show that this file is malicious, with a score of 100 (left side). We are also provided with the file size, the type of file, the name used for detection, and other aliases used to track this specific piece of malware.





CONCLUSION

When investigating a phishing email that has an attachment, you should always include the reputation checks you performed in your report. In organizations with a dedicated security team, it is highly likely that they will have their own internal tools for sandboxing files that provide more accurate reputations cores, such as McAfee's Advanced Threat Defence (ATD). We will cover exactly how you should include this in your report in a future lesson.

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