

Case Study:

Investigate a Suspicious File Hash

Scenario:

You are a level one security operations center (SOC) analyst at a financial services company. You have received an alert about a suspicious file being downloaded on an employee's computer.

You investigate this alert and discover that the employee received an email containing an attachment. The attachment was a password-protected spreadsheet file. The spreadsheet's password was provided in the email. The employee downloaded the file, then entered the password to open the file. When the employee opened the file, a malicious payload was then executed on their computer.

You retrieve the malicious file and create a SHA256 hash of the file. You might recall from a previous course that a hash function is an algorithm that produces a code that can't be decrypted. Hashing is a cryptographic method used to uniquely identify malware, acting as the file's unique fingerprint.

Now that you have the file hash, you will use VirusTotal to uncover additional IoCs that are associated with the file.

54e6ea47eb04634d3e87fd7787e2136ccfbcc80ade34f246a12cf93bab527feb

57
/ 71

Community Score

57 security vendors and 2 sandboxes flagged this file as malicious

ReanalyzeSimilarMore

54e6ea47eb04634d3e87fd7787e2136ccfbcc80ade34f246a12cf93bab527feb

Size430.00 KB

Last Analysis Date16 hours ago

peexe

runtime-modules

detect-debug-environment

long-sleeps

direct-cpu-clock-access

checks-user-input

spreader

DETECTION

DETAILS

RELATIONS

BEHAVIOR

COMMUNITY21+

Join the VT Community and enjoy additional community insights and crowdsourced detections, plus an API key to automate checks.

Popular threat labeltrojan:fragtor/fragtor

Threat categoriestrojan

Family labelstrojanfragtorbusyice

Security vendors' analysis

Do you want to automate checks?

AhnLab-V3	Malware/Win32.Generic.C4209910	Alibaba	Backdoor:Win32/Flagpro.59f5de24
ALYac	Trojan.Agent.Flagpro	Antiy-AVL	Trojan(APT)/Win32.Blacktech
Arcabit	Trojan.Fragtor.D5A915	Avast	Win32:Malware-gen
AVG	Win32:Malware-gen	Avira (no cloud)	HEUR/AGEN.1312459
BitDefender	Gen-Variant.Fragtor.370965	BitDefenderTheta	Gen:NN.ZexaF.36722.AuO@a0ISWfH
Bkav Pro	W32.AIDetect/Malware	CrowdStrike Falcon	Win/malicious_confidence_100% (W)
Cybereason	Malicious.70dbec	Cylance	Unsafe
Cynet	Malicious (score: 100)	DeepInSight	MALICIOUS
DrWeb	BackDoor.Flagpro.1	Elastic	Malicious (high Confidence)
Emsisoft	Gen-Variant.Fragtor.370965 (B)	eScan	Gen-Variant.Fragtor.370965

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ESET-NOD32	A Variant Of Win32/FlagPro.B	F-Secure	Heuristic.HEUR/AGEN.1312459
Fortinet	W32/Generic.BFRLItr	GData	Gen-Variant.Fragtor.370965
Google	Detected	Gridinsoft (no cloud)	Trojan.Win32.Agent.oa/s1
Ikarus	Trojan.Win32.Flagpro	Jiangmin	Trojan.Generic.gidky
K7AntiVirus	Trojan (0058ca8e1)	K7GW	Trojan (0058ca8e1)
Kaspersky	HEUR:Backdoor:Win32.Flagpro.gen	Lionic	Trojan.Win32.Flagpro.mlc
Malwarebytes	Malware.AI.1952109164	MAX	Malware (ai Score=100)
MaxSecure	Trojan.Malware.7164915.susgen	McAfee	GenericRXBH-KX1287D612E29B7
McAfee-GW-Edition	GenericRXBH-KX1287D612E29B7	Microsoft	Trojan.Win32/Kryptik/MSR
Panda	TrjGd5da.A	Rising	Backdoor.Flagpro@.13138 (TFE-S-3Y1Z3O...
Sangfor Engine Zero	Trojan.Win32.FlagPro.B	SecureAge	Malicious
Sophos	Mal/Generic-R	Symantec	ML.Attribute.HighConfidence
Tencent	Malware.Win32.Generic.115db2bc	Trapmine	Malicious.moderate.ml.score
Trellix (FireEye)	Gen-Variant.Fragtor.370965	TrendMicro	Backdoor:Win32.BUSYICE.ZYU
TrendMicro-HouseCall	Backdoor:Win32.BUSYICE.ZYU	VBA32	Trojan.Ymacco
VIPRE	Gen-Variant.Fragtor.370965	ViRobot	Trojan.Win32.S.Agent.440320.DX
Webroot	W32.Malware.Gen	Xcitem	Malware@#259qws4j27nr
Yandex	Trojan.Igent.by4Ngq.2	Zillya	Trojan.Generic.Win32.1231445
ZonaAlarm by Check Point	HEUR:Backdoor:Win32.Flagpro.gen	Zenoss (Static ML)	Undetected

Sophos	Mal/Generic-R	Symantec	ML.Attribute.HighConfidence
Tencent	Malware.Win32.Gen:irc.115db2bc	Trapmine	Malicious.moderate.ml.score
Trellix (FireEye)	Gen-Variant.Fragtor.370965	TrendMicro	Backdoor.Win32.BUSYICE.ZYUJ
TrendMicro-HouseCall	Backdoor.Win32.BUSYICE.ZYUJ	VBA32	Trojan.Ymacco
VIPRE	Gen-Variant.Fragtor.370965	ViRobot	Trojan.Win32.S.Agent.440320.DX
Webroot	W32.Malware.Gen	Xcitium	Malware@#259qsws4j27nr
Yandex	Trojan.Igent.ly4Ngq.2	Zillya	Trojan.Generic.Win32.1231445
ZoneAlarm by Check Point	HEUR.Backdoor.Win32.Flagpro.gen	Acronis (Static ML)	Undetected
Baidu	Undetected	ClamAV	Undetected
CMC	Undetected	Cyren	Undetected
NANO-Antivirus	Undetected	Palo Alto Networks	Undetected
QuickHeal	Undetected	SentinelOne (Static ML)	Undetected
SUPERAntiSpyware	Undetected	TACHYON	Undetected
TEHTRIS	Undetected	ViriT	Undetected
Zoner	Undetected	Avast-Mobile	Unable to process file type
BitDefenderFalx	Unable to process file type	Symantec Mobile Insight	Unable to process file type
Trustlook	Unable to process file type		

The file hash has been reported as malicious by over 50 vendors. Upon further investigation, this file hash is known as the malware Flagpro, which has been commonly used by the advanced threat actor BlackTech.

