



THREAT INTELLIGENCE LAB

(CS-5202)

Yara Rule

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Problem Statement

In this lab you need to create a Yara rule out of any malware family. you can download samples from <https://github.com/InQuest/malware-samples>.

do following task in lab

1. Create a Yara rule with .yara for selected malware.
2. Create a report with following details.
 - description of malware
 - description of Yara patterns (why have u chosen the pattern and why you think the pattern cannot occurs in clean file)
3. Create a folder (with ur id _presiding with ur name) which contains following
 - created Yara rule
 - report
 - the samples chosen
4. Upload the created folder on git hub repo
5. Share the link

Malware Selected

Malware Sample Name: 2018-05-KPOT

Sample Location: [malware-samples/2018-05-KPOT](https://github.com/InQuest/malware-samples/tree/master/2018-05-KPOT) at master · InQuest/malware-samples · GitHub

Files Present:

- 36dcd40aee6a42b8733ec3390501502824f570a23640c2c78a788805164f77ce
- 67f8302a2fd28d15f62d6d20d748bfe350334e5353cbdef112bd1f8231b5599d

Virus Total Links

- <https://www.virustotal.com/gui/file/36dcd40aee6a42b8733ec3390501502824f570a23640c2c78a788805164f77ce/detection>
- <https://www.virustotal.com/gui/file/67f8302a2fd28d15f62d6d20d748bfe350334e5353cbdef112bd1f8231b5599d/detection>

Yara Rule

rule lab3exe

{

meta:

Description = "Simple YARA rule to detect 2018-05-KPOT"

Author = "Pradeesh Kumar.R (MT20ACS523)"

Date = "2021-08-27"

strings:

\$str01 = "http://%s" wide ascii

\$str02 = "https://%S/a/%S" wide ascii

\$str03 = "HTTP Server URL" wide ascii

\$str04 = "password-check" wide ascii

\$str05 = "*.wallet" wide ascii

\$str06 = "*.rdp" wide ascii



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\$sr01 = "9087654356.exe" wide ascii

\$reg01 = /(SMTP|POP3|IMAP)\s(User|Password|Port|Server)/ wide ascii

\$reg02 = /(HttpWeb|Web|Get)(Request|Response|Client)/ wide ascii

condition:

all of (\$str*)

or all of (\$sr*)

and 1 of (\$reg*)

}

Description of Malware

Both the files are PE32 executable (GUI) Intel 80386, for MS Windows. KPOT Stealer is a “stealer” malware that focuses on exfiltrating account information and other data from web browsers, instant messengers, email, VPN, RDP, FTP, cryptocurrency, and gaming software.

Description of Yara Patterns

- \$str01 and \$str02 references a URL pattern in http and https
- \$str03 references HTTP Server URL
- \$str04 references to checking passwords
- \$str05 references to .WALLET file belongs to the category of Data Files used in operating systems such as Windows 11, 10, Windows 7, Windows 8 / 8.1, Windows Vista, Windows XP. A WALLET file is a file encrypted by the CryptoMix, or CrypMix, virus, which is ransomware utilized by cybercriminals. It contains a user's file, such as a . PDF or . DOCX file, encrypted with AES encryption by the virus.
- \$str06 references to RDP files mostly belong to Remote Desktop Connection by Microsoft Corporation. An .RDP file contains all of the information for a connection to a terminal server, including the options settings that were configured when the file was saved.
- \$sr01 references a malicious exe file present in the sample
- \$reg01 references to username, password, port 587 (SMTP – sending mails), 995 (POP3 – receiving mails) and 143 (IMAP - to retrieve email messages from a mail server) and server
- \$reg02 references to request and respond data from a host server

Github Repository Location

[CS-5202-Threat-intelligence/Lab3 at main · PradeeshKumar-NIIT/CS-5202-Threat-intelligence \(github.com\)](https://github.com/PradeeshKumar-NIIT/CS-5202-Threat-intelligence-Lab3)

Conclusion

The malware is statically analyzed and yara rules has been created for the selected (KPOT V2) malware.



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References

- [1] Free Automated Malware Analysis Service - powered by Falcon Sandbox - Viewing online file analysis results for '36dcd40aee6a42b8733ec3390501502824f570a23640c2c78a788805164f77ce' (hybrid-analysis.com)
- [2] Free Automated Malware Analysis Service - powered by Falcon Sandbox - Viewing online file analysis results for '67f8302a2fd28d15f62d6d20d748bfe350334e5353cbdef112bd1f8231b5599d' (hybrid-analysis.com)
- [3] Use Ghidra to decrypt strings of KpotStealer malware – nullteilerfrei
- [4] Sha256: 36dcd40aee6a42b8733ec3390501502824f570a23640c2c78a788805164f77ce - AlienVault - Open Threat Exchange
- [5] Sha256: 67f8302a2fd28d15f62d6d20d748bfe350334e5353cbdef112bd1f8231b5599d - AlienVault - Open Threat Exchange