



**ID:** 483639

Sample Name: Halkbank02.exe

Cookbook: default.jbs Time: 10:37:01

**Date:** 15/09/2021

Version: 33.0.0 White Diamond

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# Windows Analysis Report Halkbank02.exe

### **Overview**

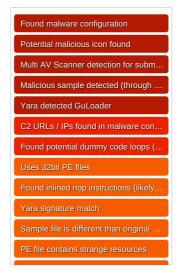




### **Detection**



### **Signatures**



### Classification



### ■ System is w10x64

- 📮 Halkbank02.exe (PID: 6396 cmdline: 'C:\Users\user\Desktop\Halkbank02.exe' MD5: A4CB6740C9195C5579ACEF4F7C8E40C7)
- cleanup

# **Malware Configuration**

### Threatname: GuLoader

```
"Payload URL": "https://drive.google.com/uc?export=download&id=1l"
```

# **Yara Overview**

### **Memory Dumps**

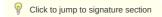
Source	Rule	Description	Author	Strings
00000001.00000002.775767651.0000000002BD 0000.00000040.00000001.sdmp	JoeSecurity_GuLoader_2	Yara detected GuLoader	Joe Security	
00000001.00000002.772950247.000000000041 0000.00000020.00020000.sdmp	LokiBot_Dropper_Packed_ R11_Feb18	Auto-generated rule - file scan copy.pdf.r11	Florian Roth	0x450:\$s1: C:\Program Files (x86)\Microsoft Visual Studio\VB98\VB6.OLB
0000001.0000000.247791172.000000000041 0000.00000020.00020000.sdmp	LokiBot_Dropper_Packed_ R11_Feb18	Auto-generated rule - file scan copy.pdf.r11	Florian Roth	0x450:\$s1: C:\Program Files (x86)\Microsoft Visual Studio\VB98\VB6.OLB

# Sigma Overview

No Sigma rule has matched

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# **Jbx Signature Overview**



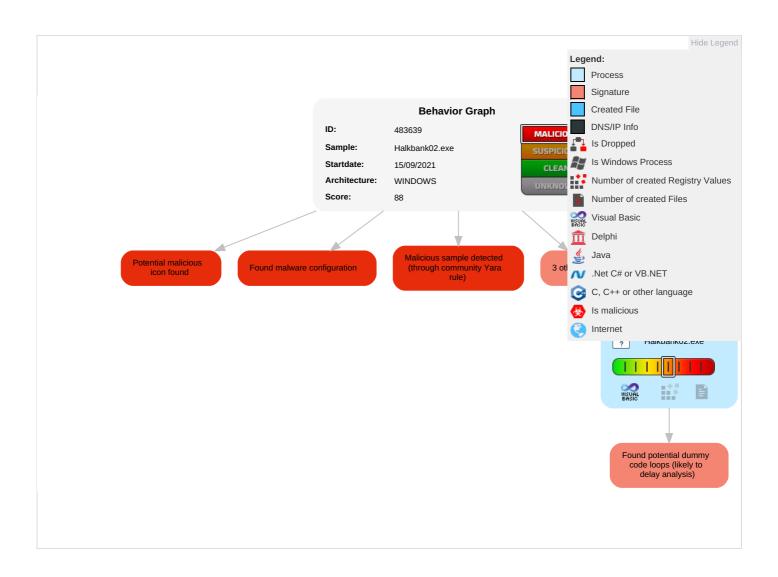
# AV Detection: Found malware configuration Multi AV Scanner detection for submitted file Networking: C2 URLs / IPs found in malware configuration System Summary: Potential malicious icon found Malicious sample detected (through community Yara rule) Data Obfuscation: Yara detected GuLoader Anti Debugging: Found potential dummy code loops (likely to delay analysis)

# Mitre Att&ck Matrix

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects
Valid Accounts	Windows Management Instrumentation	Path Interception	Process Injection 1		OS Credential Dumping	Security Software Discovery 1 1	Remote Services	Archive Collected Data 1	Exfiltration Over Other Network Medium	Encrypted Channel 1	Eavesdrop on Insecure Network Communication
Default Accounts	Scheduled Task/Job	Boot or Logon Initialization Scripts	Boot or Logon Initialization Scripts	Process Injection 1	LSASS Memory	Virtualization/Sandbox Evasion 1 1	Remote Desktop Protocol	Data from Removable Media	Exfiltration Over Bluetooth	Application Layer Protocol 1	Exploit SS7 to Redirect Phone Calls/SMS
Domain Accounts	At (Linux)	Logon Script (Windows)	Logon Script (Windows)	Obfuscated Files or Information 2	Security Account Manager	Process Discovery 1	SMB/Windows Admin Shares	Data from Network Shared Drive	Automated Exfiltration	Steganography	Exploit SS7 to Track Device Location
Local Accounts	At (Windows)	Logon Script (Mac)	Logon Script (Mac)	Binary Padding	NTDS	System Information Discovery 1	Distributed Component Object Model	Input Capture	Scheduled Transfer	Protocol Impersonation	SIM Card Swap

# **Behavior Graph**

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### **Screenshots**

### **Thumbnails**

This section contains all screenshots as thumbnails, including those not shown in the slideshow.



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# **Antivirus, Machine Learning and Genetic Malware Detection Initial Sample** Detection Label Link Source Scanner Halkbank02.exe 16% ReversingLabs Win32.Trojan.Mucc **Dropped Files** No Antivirus matches **Unpacked PE Files** No Antivirus matches **Domains** No Antivirus matches **URLs** No Antivirus matches

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# **Domains and IPs**

### **Contacted Domains**

No contacted domains info

### **Contacted IPs**

No contacted IP infos

# **General Information**

Joe Sandbox Version:	33.0.0 White Diamond
Analysis ID:	483639
Start date:	15.09.2021
Start time:	10:37:01
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 8m 19s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	Halkbank02.exe
Cookbook file name:	default.jbs
Analysis system description:	Windows 10 64 bit v1803 with Office Professional Plus 2016, Chrome 85, IE 11, Adobe Reader DC 19, Java 8 Update 211
Number of analysed new started processes analysed:	30
Number of new started drivers analysed:	0
Number of existing processes analysed:	0
Number of existing drivers analysed:	0
Number of injected processes analysed:	0
Technologies:	HCA enabled  EGA enabled  HDC enabled  AMSI enabled
Analysis Mode:	default
Analysis stop reason:	Timeout
Detection:	MAL
Classification:	mal88.rans.troj.evad.winEXE@1/0@0/0
EGA Information:	Failed
HDC Information:	<ul> <li>Successful, ratio: 5.7% (good quality ratio 3%)</li> <li>Quality average: 27.7%</li> <li>Quality standard deviation: 26.8%</li> </ul>
HCA Information:	Failed
Cookbook Comments:	<ul> <li>Adjust boot time</li> <li>Enable AMSI</li> <li>Found application associated with file extension: .exe</li> <li>Override analysis time to 240s for sample files taking high CPU consumption</li> </ul>
Warnings:	Show All

# **Simulations**

### **Behavior and APIs**

No simulations

# Joe Sandbox View / Context

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IPs	

No context

### **Domains**

No context

### **ASN**

No context

### **JA3 Fingerprints**

No context

# **Dropped Files**

No context

# **Created / dropped Files**

No created / dropped files found

# Static File Info

General	
File type:	PE32 executable (GUI) Intel 80386, for MS Windows
Entropy (8bit):	5.903422169790693
TrID:	<ul> <li>Win32 Executable (generic) a (10002005/4) 99.15%</li> <li>Win32 Executable Microsoft Visual Basic 6 (82127/2) 0.81%</li> <li>Generic Win/DOS Executable (2004/3) 0.02%</li> <li>DOS Executable Generic (2002/1) 0.02%</li> <li>Autodesk FLIC Image File (extensions: flc, fli, cel) (7/3) 0.00%</li> </ul>
File name:	Halkbank02.exe
File size:	114688
MD5:	a4cb6740c9195c5579acef4f7c8e40c7
SHA1:	54abe0f828d828d5ff840b989fb5f010395961f6
SHA256:	f1b1abf0182c865a3521d659cbc4bd86a4b00b0e4be954 8a1d3b5ff46a3efc8
SHA512:	454837e72cab7fb74b1997a9cb65f00f4f61f2c20df207af2 bc68bb14b64b05bc335b7a5ee453872f39b0e4d2608d1d 430355411784e810c631c2a48913e3de8
SSDEEP:	1536:eCTH2yl2XRexuS7oM7AS9GvCxrJodHrRdgGpVE Py6mgjd+:e62dAwSsO9GvCxrJ6HbrVBPy6jU
File Content Preview:	MZ@

# File Icon



Icon Hash: 20047c7c70f0e004

### Static PE Info

General
Entrypoint:

0x401500

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General	
Entrypoint Section:	.text
Digitally signed:	false
Imagebase:	0x400000
Subsystem:	windows gui
Image File Characteristics:	LOCAL_SYMS_STRIPPED, 32BIT_MACHINE, EXECUTABLE_IMAGE, LINE_NUMS_STRIPPED, RELOCS_STRIPPED
DLL Characteristics:	
Time Stamp:	0x5677657B [Mon Dec 21 02:35:39 2015 UTC]
TLS Callbacks:	
CLR (.Net) Version:	
OS Version Major:	4
OS Version Minor:	0
File Version Major:	4
File Version Minor:	0
Subsystem Version Major:	4
Subsystem Version Minor:	0
Import Hash:	4907098a5ecd4cf1549046838d3d7c44

### **Entrypoint Preview**

### **Data Directories**

### Sections

Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.text	0x1000	0x15dc4	0x16000	False	0.537486683239	data	6.51159061582	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.data	0x17000	0xa34	0x1000	False	0.00634765625	data	0.0	IMAGE_SCN_CNT_INITIALIZED_DA TA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.rsrc	0x18000	0x31be	0x4000	False	0.143920898438	data	2.81606437364	IMAGE_SCN_CNT_INITIALIZED_DA TA, IMAGE_SCN_MEM_READ

### Resources

## Imports

### **Version Infos**

# Possible Origin

Language of compilation system	Country where language is spoken	Мар
English	United States	
Chinese	Taiwan	

# **Network Behavior**

No network behavior found

# **Code Manipulations**

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# **Statistics**

# **System Behavior**

# Analysis Process: Halkbank02.exe PID: 6396 Parent PID: 3232

### General

Start time:	10:38:01
Start date:	15/09/2021
Path:	C:\Users\user\Desktop\Halkbank02.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\Halkbank02.exe'
Imagebase:	0x400000
File size:	114688 bytes
MD5 hash:	A4CB6740C9195C5579ACEF4F7C8E40C7
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	Visual Basic
Yara matches:	Rule: JoeSecurity_GuLoader_2, Description: Yara detected GuLoader, Source: 00000001.00000002.775767651.0000000002BD0000.00000040.00000001.sdmp, Author: Joe Security  Rule: LokiBot_Dropper_Packed_R11_Feb18, Description: Auto-generated rule - file scan copy.pdf.r11, Source: 00000001.00000002.772950247.000000000410000.00000020.00020000.sdmp, Author: Florian Roth  Rule: LokiBot_Dropper_Packed_R11_Feb18, Description: Auto-generated rule - file scan copy.pdf.r11, Source: 00000001.00000000.247791172.0000000000410000.00000020.00020000.sdmp, Author: Florian Roth
Reputation:	low

File Activities Show Windows behavior

# Disassembly

# **Code Analysis**

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