

JOESandbox Cloud BASIC



ID: 501942

Sample Name: Fra FAC-ES101-2107-03806.doc.exe

Cookbook: default.jbs

Time: 12:44:11

Date: 13/10/2021

Version: 33.0.0 White Diamond


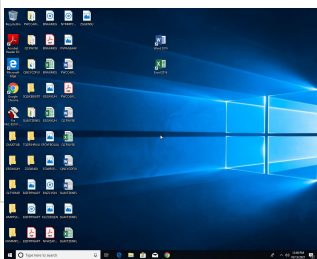
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Windows Analysis Report Fra FAC-ES101-2107-03806.d...

Overview

General Information

Sample Name:	Fra FAC-ES101-2107-03806.doc.exe
Analysis ID:	501942
MD5:	18b804e21a3c1c...
SHA1:	9622e70cd6db56..
SHA256:	cbc14388711803..
Tags:	exe
Infos:	
Most interesting Screenshot:	

Detection

MALICIOUS

SUSPICIOUS

CLEAN

UNKNOWN

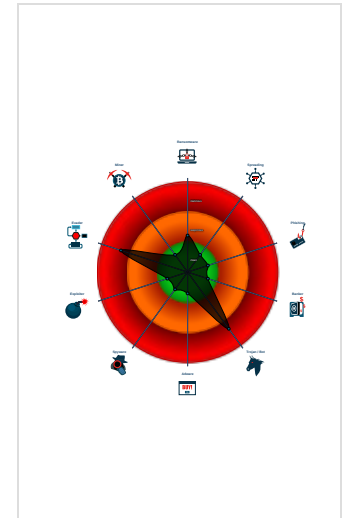
GuLoader

Score:	80
Range:	0 - 100
Whitelisted:	false
Confidence:	100%


Signatures

- Found malware configuration
- Multi AV Scanner detection for subm...
- Yara detected GuLoader
- Tries to detect virtualization through...
- C2 URLs / IPs found in malware con...
- Found potential dummy code loops (...)
- Uses an obfuscated file name to hid...
- Uses 32bit PE files
- Sample file is different than original ...
- Contains functionality to read the PEB
- Uses code obfuscation techniques (...)
- Detected potential crypto function

Classification



Process Tree

- System is w10x64
-  Fra FAC-ES101-2107-03806.doc.exe (PID: 812 cmdline: 'C:\Users\user\Desktop\Fra FAC-ES101-2107-03806.doc.exe' MD5: 18B804E21A3C1C80C195E7D20DC38477)
- cleanup

Malware Configuration

Threatname: GuLoader

```
{  
  "Payload URL": "https://drive.google.com/uc?export=downlo"  
}
```

Yara Overview

Memory Dumps

Source	Rule	Description	Author	Strings
00000000.00000002.781926944.000000000212 0000.00000040.00000001.sdmp	JoeSecurity_GuLoader_2	Yara detected GuLoader	Joe Security	

Sigma Overview

No Sigma rule has matched

Jbx Signature Overview

Click to jump to signature section

AV Detection:



Found malware configuration

Multi AV Scanner detection for submitted file

Networking:



C2 URLs / IPs found in malware configuration

Data Obfuscation:



Yara detected GuLoader

Hooking and other Techniques for Hiding and Protection:



Uses an obfuscated file name to hide its real file extension (double extension)

Malware Analysis System Evasion:



Tries to detect virtualization through RDTS time measurements

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	Reputation
Valid Accounts	Windows Management Instrumentation	Path Interception	Process Injection 1	Masquerading 1	OS Credential Dumping	Security Software Discovery 2 1	Remote Services	Archive Collected Data 1	Exfiltration Over Other Network Medium	Encrypted Channel 1	Eavesdrop on Insecure Network Communication	Reputation
Default Accounts	Scheduled Task/Job	Boot or Logon Initialization Scripts	Boot or Logon Initialization Scripts	Virtualization/Sandbox Evasion 1 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	Reputation
Domain Accounts	At (Linux)	Logon Script (Windows)	Logon Script (Windows)	Process Injection 1	Security Account Manager	Process Discovery 1	SMB/Windows Admin Shares	Data from Network Shared Drive	Automated Exfiltration	Steganography	Exploit SS7 to Track Device Location	OS
Local Accounts	At (Windows)	Logon Script (Mac)	Logon Script (Mac)	Obfuscated Files or Information 1 1	NTDS	System Information Discovery 1 1	Distributed Component Object Model	Input Capture	Scheduled Transfer	Protocol Impersonation	SIM Card Swap	OS

Behavior Graph

Legend:

-  Process
-  Signature
-  Created File
-  DNS/IP Info
-  Is Dropped
-  Is Windows Process
-  Number of created Registry Values
-  Number of created Files
-  Visual Basic
-  Delphi
-  Java
-  .Net C# or VB.NET
-  C, C++ or other language
-  Is malicious
-  Internet

Behavior Graph

ID: 501942
 Sample: Fra FAC-ES101-2107-03806.doc.exe
 Startdate: 13/10/2021
 Architecture: WINDOWS
 Score: 80

Found malware configuration

Multi AV Scanner detection for submitted file

Yara detected GuLoader

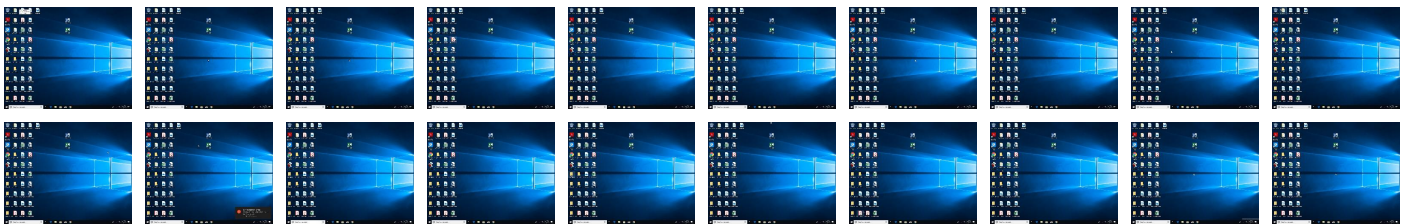
4 other sig

Fra FAC-ES101-2107-03806.doc.exe

Screenshots

Thumbnails

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





Antivirus, Machine Learning and Genetic Malware Detection

Initial Sample

Source	Detection	Scanner	Label	Link
Fra FAC-ES101-2107-03806.doc.exe	51%	Virusotal		Browse
Fra FAC-ES101-2107-03806.doc.exe	34%	Metadefender		Browse
Fra FAC-ES101-2107-03806.doc.exe	54%	ReversingLabs	Win32.Trojan.AgentTesla	

Dropped Files

No Antivirus matches

Unpacked PE Files

No Antivirus matches

Domains

No Antivirus matches

URLs

No Antivirus matches

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:	501942
Start date:	13.10.2021
Start time:	12:44:11
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 7m 21s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	Fra FAC-ES101-2107-03806.doc.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:	28
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:	<ul style="list-style-type: none">• HCA enabled• EGA enabled• HDC enabled• AMSI enabled
Analysis Mode:	default
Analysis stop reason:	Timeout
Detection:	MAL
Classification:	mal80.troj.evad.winEXE@1/0@0/0
EGA Information:	Failed
HDC Information:	<ul style="list-style-type: none">• Successful, ratio: 19.7% (good quality ratio 11.9%)• Quality average: 39.4%• Quality standard deviation: 37.5%
HCA Information:	Failed
Cookbook Comments:	<ul style="list-style-type: none">• Adjust boot time• Enable AMSI• Found application associated with file extension: .exe• Override analysis time to 240s for sample files taking high CPU consumption
Warnings:	Show All

Simulations

Behavior and APIs

No simulations

Joe Sandbox View / Context

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):	5.81188292947866
TrID:	<ul style="list-style-type: none">Win32 Executable (generic) a (10002005/4) 99.15%Win32 Executable Microsoft Visual Basic 6 (82127/2) 0.81%Generic Win/DOS Executable (2004/3) 0.02%DOS Executable Generic (2002/1) 0.02%Autodesk FLIC Image File (extensions: flc, fli, cel) (7/3) 0.00%
File name:	Fra FAC-ES101-2107-03806.doc.exe
File size:	102400
MD5:	18b804e21a3c1c80c195e7d20dc38477
SHA1:	9622e70cd6db56de3488e99cd18c5f51e54afb64
SHA256:	cbc14388711803d5a3f90396d4d33c9b3da952c37a5d919daed329cbd487c1b4
SHA512:	21eade10fb00f4ef5356025ce037983b2e220835345b4bd141f1063367da309390caa83d9d822177bf5c3ef900c311a12aff2f9731787f0afb4c6f35576ffec
SSDEEP:	1536:tFD8AJkfjAx20HgXeyTftunugia21jbnD:tfeUxxAZnn/n
File Content Preview:	MZ.....@.....!..L.!Th is program cannot be run in DOS mode...\$......i.....*.....Rich.....PE..L..(KY..... P...0.....X.....@.....

File Icon



Icon Hash:

69e1c892f664c884

Static PE Info

General	
Entrypoint:	0x401378
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:	0x594BF828 [Thu Jun 22 17:02:32 2017 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:	669316531b5190f02843878b6ed87394

Entrypoint Preview

Data Directories

Sections


Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.text	0x1000	0x14588	0x15000	False	0.496163504464	data	6.24678665883	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.data	0x16000	0xd0c	0x1000	False	0.00634765625	data	0.0	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.rsrc	0x17000	0x1cb2	0x2000	False	0.348510742188	data	3.76228374891	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ

Resources

Imports

Version Infos

Possible Origin

Language of compilation system	Country where language is spoken	Map
English	United States	

Network Behavior

No network behavior found

Code Manipulations

Statistics

System Behavior

Analysis Process: Fra FAC-ES101-2107-03806.doc.exe PID: 812 Parent PID: 852

General

Start time:	12:45:11
Start date:	13/10/2021
Path:	C:\Users\user\Desktop\Fra FAC-ES101-2107-03806.doc.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\Fra FAC-ES101-2107-03806.doc.exe'
Imagebase:	0x400000
File size:	102400 bytes
MD5 hash:	18B804E21A3C1C80C195E7D20DC38477
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	Visual Basic
Yara matches:	<ul style="list-style-type: none">Rule: JoeSecurity_GuLoader_2, Description: Yara detected GuLoader, Source: 00000000.00000002.781926944.000000002120000.00000040.00000001.sdmp, Author: Joe Security
Reputation:	low

File Activities

Show Windows behavior

Disassembly

Code Analysis