Joe Sandbox Cloud BASIC

ID: 491482
Sample Name: Unreal.exe
Cookbook: default.jbs
Time: 16:21:30
Date: 27/09/2021
Version: 33.0.0 White Diamond

Table of Contents

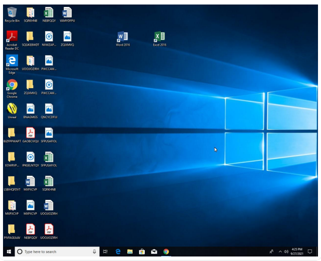
Windows Analysis Report Unreal.exe

Overview

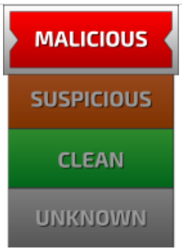
General Information

Sample Name:	Unreal.exe
Analysis ID:	491482
MD5:	35a93d1f2edc044.
SHA1:	c29f2524ae4bd23.
SHA256:	88d3b3a6564e25..
Tags:	exe
Infos:	

Most interesting Screenshot:



Detection



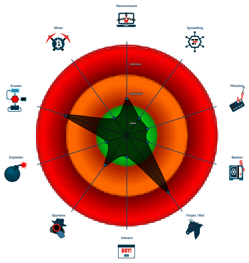
GuLoader

Score:	76
Range:	0 - 100
Whitelisted:	false
Confidence:	100%

Signatures

- Found malware configuration
- Multi AV Scanner detection for subm…
- Yara detected GuLoader
- C2 URLs / IPs found in malware con…
- Found potential dummy code loops (…
- Machine Learning detection for samp…
- Creates a DirectInput object (often fo…
- Uses 32bit PE files
- PE file contains strange resources
- Contains functionality to read the PEB
- Uses code obfuscation techniques (…
- Detected potential crypto function
- Contains functionality to call native f…
- Program does not show much activi…

Classification



Process Tree

- **System is w10x64**
- Unreal.exe (PID: 1424 cmdline: 'C:\Users\user\Desktop\Unreal.exe' MD5: 35A93D1F2EDC044B3D8289ABFEB17A43)
- **cleanup**

Malware Configuration

Threatname: GuLoader

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

Yara Overview

Memory Dumps

Source	Rule	Description	Author	Strings
00000001.00000002.1194764231.0000000002C00000.00000040.00000001.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

Machine Learning detection for sample

Networking:

C2 URLs / IPs found in malware configuration

Data Obfuscation:

Yara detected GuLoader

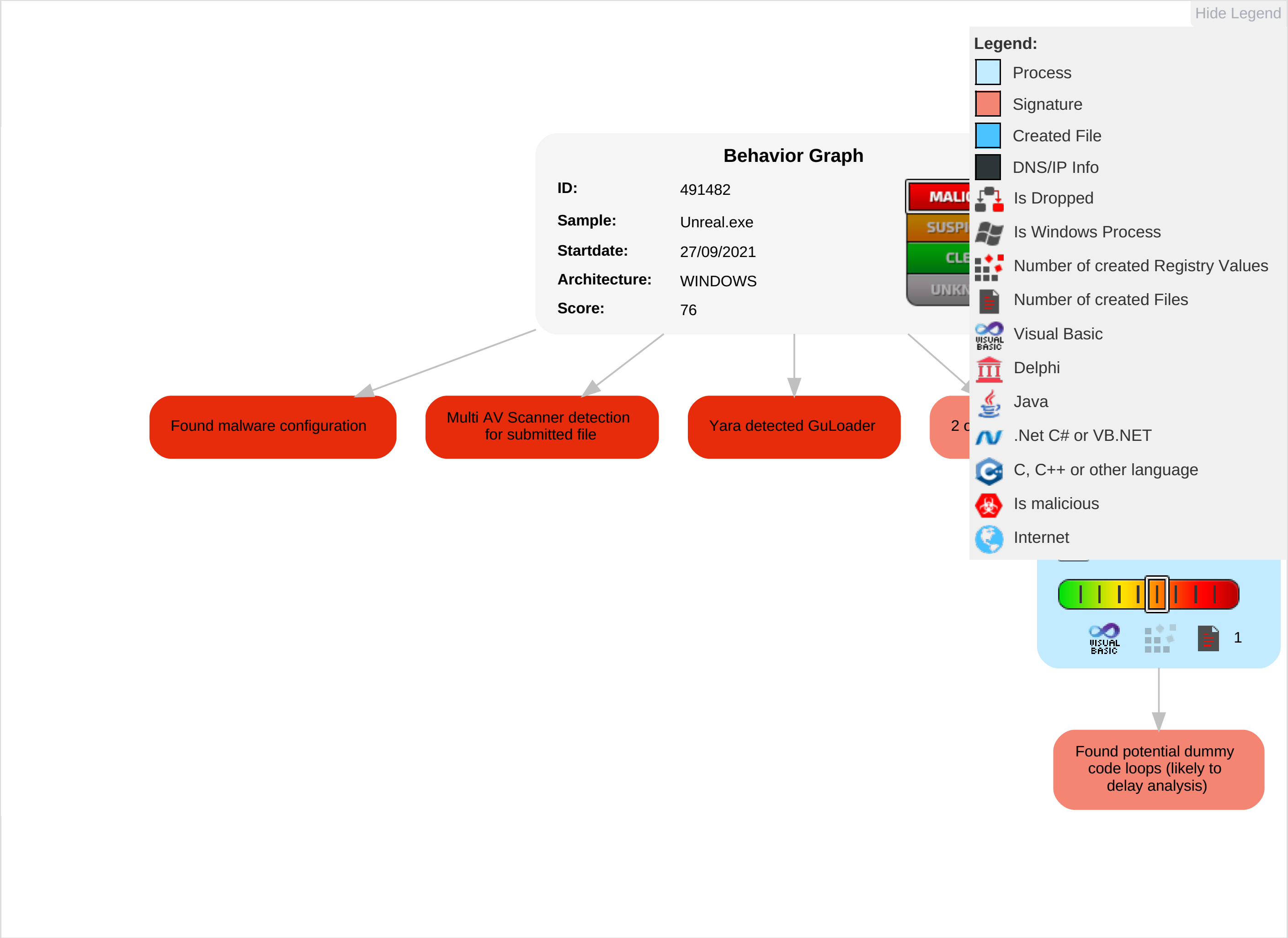
Anti Debugging:

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	Re Se Ef
Valid Accounts	Windows Management Instrumentation	Path Interception	Process Injection 1	Virtualization/Sandbox Evasion 1 1	Input Capture 1	Security Software Discovery 1 1	Remote Services	Input Capture 1	Exfiltration Over Other Network Medium	Encrypted Channel 1	Eavesdrop on Insecure Network Communication	Re Tr W Au
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	Archive Collected Data 1	Exfiltration Over Bluetooth	Application Layer Protocol 1	Exploit SS7 to Redirect Phone Calls/SMS	Re W W Au
Domain Accounts	At (Linux)	Logon Script (Windows)	Logon Script (Windows)	Obfuscated Files or Information 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	Ol De Cl Ba
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



Hide Legend

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

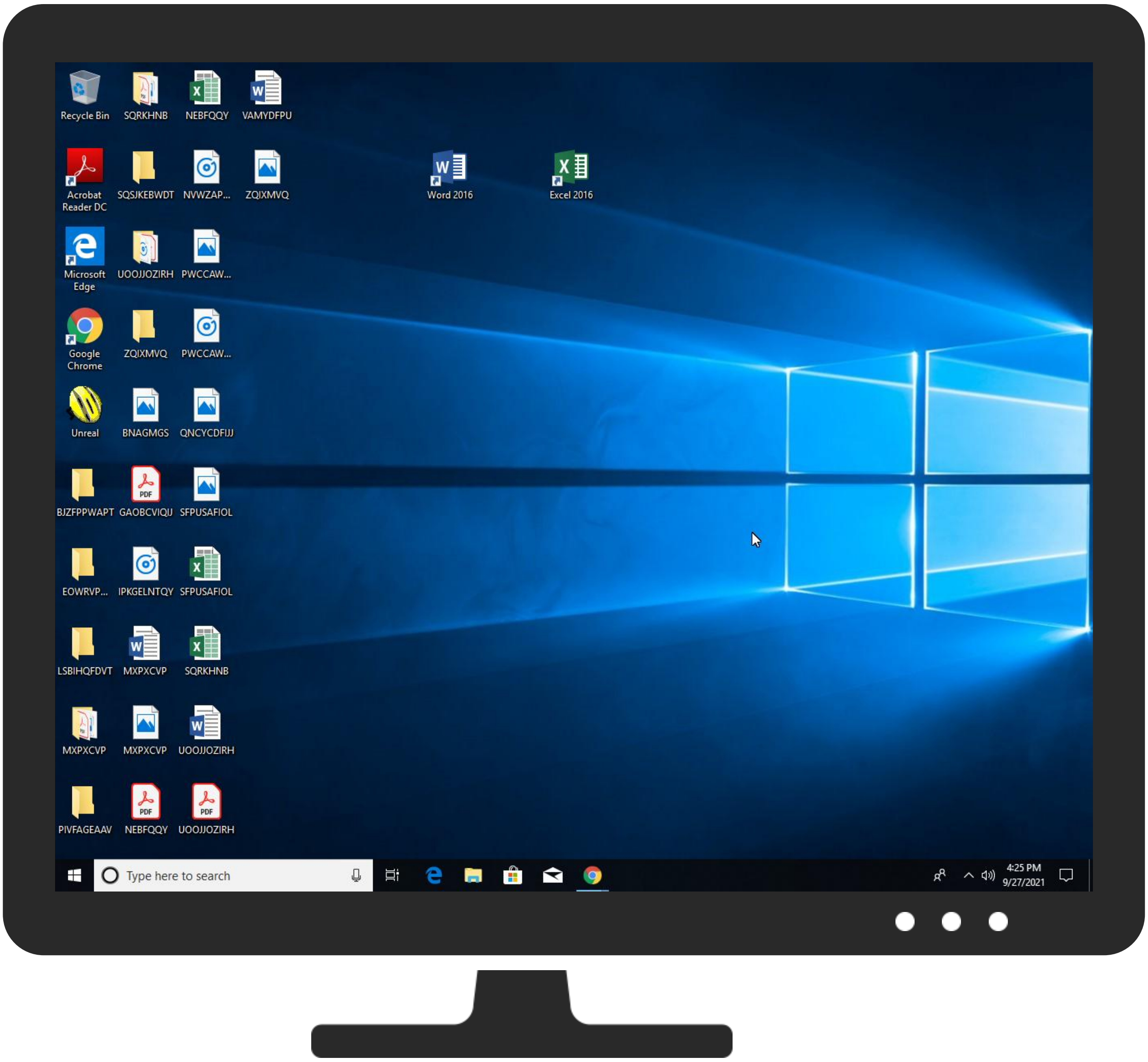
ID:	491482
Sample:	Unreal.exe
Startdate:	27/09/2021
Architecture:	WINDOWS
Score:	76

MALI
SUSPI
CLE
UNKN
Found malware configuration
Multi AV Scanner detection for submitted file
Yara detected GuLoader
2 c
VISUAL BASIC
1
Found potential dummy code loops (likely to delay analysis)

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
Unreal.exe	13%	ReversingLabs	Win32.Trojan.Ursu	
Unreal.exe	100%	Joe Sandbox ML		

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:	491482
Start date:	27.09.2021
Start time:	16:21:30
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 7m 27s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	Unreal.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:	15
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:	mal76.troj.evad.winEXE@1/0@0/0
EGA Information:	Failed
HDC Information:	• Successful, ratio: 31.3% (good quality ratio 13.6%) • Quality average: 24.7% • Quality standard deviation: 31.3%
HCA Information:	Failed
Cookbook Comments:	• 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

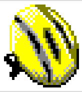
No created / dropped files found

Static File Info

General

File type:	PE32 executable (GUI) Intel 80386, for MS Windows
Entropy (8bit):	6.281321845122127
TrID:	• 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:	Unreal.exe
File size:	102400
MD5:	35a93d1f2edc044b3d8289abfeb17a43
SHA1:	c29f2524ae4bd239c849720b1fc6ce5c13bee93b
SHA256:	88d3b3a6564e25b63b31f4a00361384fd294f228763b3bde4e3162144971d385
SHA512:	dab0233817f1a28f0e1d15eb449d9c3c364796f6ddd66ced4307f3359635c29f38f80edd5e348bba03dd01d5522d358df1abd6d59e9ae94e750238af53b04bff
SSDEEP:	1536:yS+Spugs2L010fBhmNDLI41mFLHvHWJbrZk5Le5O3VzM/:F5puZA01iBYNh1m1HvHwfZkRz0
File Content Preview:	MZ......................@..!..L.!This program cannot be run in DOS mode....$.......u...1...1...1.......0...~...0.......0...Rich1...........PE..L...UL[W.................P...0...............`....@................

File Icon

	
Icon Hash:	78f8d6d4ac88d0e2

Static PE Info

General

Entrypoint:	0x4012d4

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:	0x575B4C55 [Fri Jun 10 23:25:09 2016 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:	1eb0aaa4f15bbd841e91215ce68e26d2

Entrypoint Preview

Data Directories

Sections

Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.text	0x1000	0x14788	0x15000	False	0.563720703125	data	6.65071196081	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.data	0x16000	0x9f4	0x1000	False	0.00634765625	data	0.0	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.rsrc	0x17000	0x1cb8	0x2000	False	0.26416015625	data	3.4642899067	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

Network Port Distribution

UDP Packets

Code Manipulations

Statistics

System Behavior

Analysis Process: Unreal.exe PID: 1424 Parent PID: 6024

General

Start time:	16:22:30
Start date:	27/09/2021
Path:	C:\Users\user\Desktop\Unreal.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\Unreal.exe'
Imagebase:	0x400000
File size:	102400 bytes
MD5 hash:	35A93D1F2EDC044B3D8289ABFEB17A43
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	Visual Basic
Yara matches:	- Rule: JoeSecurity_GuLoader_2, Description: Yara detected GuLoader, Source: 00000001.00000002.1194764231.0000000002C00000.00000040.00000001.sdmp, Author: Joe Security
Reputation:	low

File Activities

Show Windows behavior

Disassembly

Code Analysis

Joe Sandbox Cloud Basic 33.0.0 White Diamond