

JoeSandbox Cloud BASIC



ID: 395203

Sample Name: udmugning.exe

Cookbook: default.jbs

Time: 09:55:58

Date: 22/04/2021

Version: 31.0.0 Emerald

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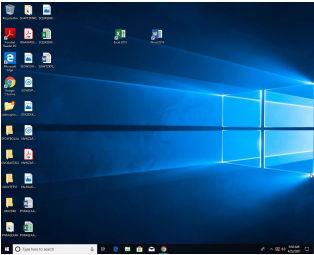
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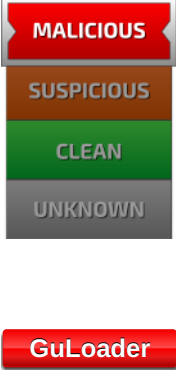
Analysis Report udmugning.exe

Overview

General Information

Sample Name:	udmugning.exe
Analysis ID:	395203
MD5:	3d04ed12388c92...
SHA1:	8820ff07e1f6012...
SHA256:	99227f9bb099737.
Infos:	
Most interesting Screenshot:	

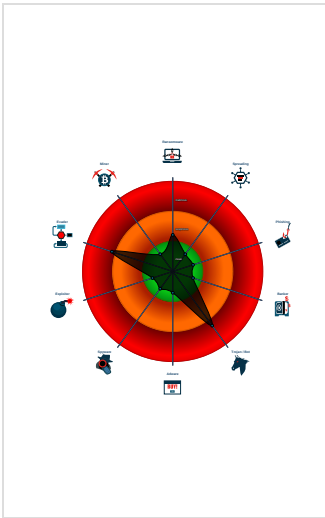
Detection

	
Score:	72
Range:	0 - 100
Whitelisted:	false
Confidence:	100%

Signatures

Icon mismatch, binary includes an ic...
Multi AV Scanner detection for subm...
Yara detected GuLoader
Found potential dummy code loops (...)
Machine Learning detection for samp...
Detected potential crypto function
Found a high number of Window / Us...
PE file contains an invalid checksum
PE file contains strange resources
Program does not show much activi...
Sample execution stops while proce...
Sample file is different than original ...

Classification



Startup

- System is w10x64
-  udmugning.exe (PID: 3440 cmdline: 'C:\Users\user\Desktop\udmugning.exe' MD5: 3D04ED12388C92E15361681EF1921D7F)
- cleanup

Malware Configuration

No configs have been found

Yara Overview

Initial Sample

Source	Rule	Description	Author	Strings
udmugning.exe	JoeSecurity_GuLoader_1	Yara detected GuLoader	Joe Security	

Memory Dumps

Source	Rule	Description	Author	Strings
00000001.00000002.474162328.0000000000040 1000.00000020.00020000.sdmp	JoeSecurity_GuLoader_1	Yara detected GuLoader	Joe Security	
00000001.00000000.206225191.0000000000040 1000.00000020.00020000.sdmp	JoeSecurity_GuLoader_1	Yara detected GuLoader	Joe Security	

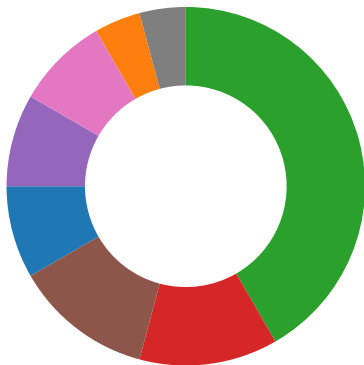
Unpacked PEs

Source	Rule	Description	Author	Strings
1.0.udmugning.exe.400000.0.unpack	JoeSecurity_GuLoader_1	Yara detected GuLoader	Joe Security	
1.2.udmugning.exe.400000.0.unpack	JoeSecurity_GuLoader_1	Yara detected GuLoader	Joe Security	

Sigma Overview

No Sigma rule has matched

Signature Overview



- AV Detection
- Compliance
- System Summary
- Data Obfuscation
- Hooking and other Techniques for Hiding and Protection
- Malware Analysis System Evasion
- Anti Debugging
- HIPS / PFW / Operating System Protection Evasion

Click to jump to signature section

AV Detection:



Multi AV Scanner detection for submitted file

Machine Learning detection for sample

Data Obfuscation:



Yara detected GuLoader

Hooking and other Techniques for Hiding and Protection:



Icon mismatch, binary includes an icon from a different legit application in order to fool users

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	Recovery
Valid Accounts	Windows Management Instrumentation	Path Interception	Process Injection 1	Masquerading 1	OS Credential Dumping	Security Software Discovery 1	Remote Services	Archive Collected Data 1	Exfiltration Over Other Network Medium	Encrypted Channel 1	Eavesdrop on Insecure Network Communication	Recovery
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	Junk Data	Exploit SS7 to Redirect Phone Calls/SMS	Recovery



Antivirus, Machine Learning and Genetic Malware Detection

Initial Sample

Source	Detection	Scanner	Label	Link
udmugning.exe	35%	Metadefender		Browse
udmugning.exe	79%	ReversingLabs	Win32.Trojan.VBObfuse	
udmugning.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:	31.0.0 Emerald
Analysis ID:	395203
Start date:	22.04.2021
Start time:	09:55:58
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 5m 11s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	udmugning.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:	23
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:	mal72.troj.evad.winEXE@1/0@0/0
EGA Information:	• Successful, ratio: 100%
HDC Information:	• Successful, ratio: 97.7% (good quality ratio 48.7%) • Quality average: 27% • Quality standard deviation: 30.5%
HCA Information:	Failed
Cookbook Comments:	• Adjust boot time • Enable AMSI • Found application associated with file extension: .exe
Warnings:	Show All • Exclude process from analysis (whitelisted): taskhostw.exe, MpCmdRun.exe, BackgroundTransferHost.exe, backgroundTaskHost.exe, SgrmBroker.exe, conhost.exe, svchost.exe • VT rate limit hit for: /opt/package/joesandbox/database/analysis/395203/sample/udmugning.exe

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):	5.747482043975765
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:	udmugning.exe
File size:	118784
MD5:	3d04ed12388c92e15361681ef1921d7f
SHA1:	8820ff07e1f60121a057b0303dc7746ea4960617
SHA256:	99227f9bb099737a3f356f266c5b8d5e1f4313715f37a4b7b0b6c1ae65c00925
SHA512:	39d85417c5667971a8b84eb358656672a2291c8e52143633591c6c5afd7d1a45d6cdd837002797f509e071aa508cee300097c65642cf5ba7d5fc3c6874f08c9f
SSDEEP:	1536:o96yzDtLzOdb4E4Ql9p9LUaYu/+QR15nZ5ioT1Vn rveqOrNThdFfwuqitL:oHDtLzOdDLhemaFf
File Content Preview:	MZ.....@.....!..L.!Th is program cannot be run in DOS mode...\$.....#...B...B ...B..L^...B...`...B...d...B..Rich.B.....PE..L.....O..... .....p...`.....h.....@.....

File Icon

	
Icon Hash:	c0c6f2e0e4fefe3f

Static PE Info

General

Entrypoint:	0x401968
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:	0x4FE4DC12 [Fri Jun 22 20:56:50 2012 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:	7677b40f5f8927412a58af017314f1ed

Entrypoint Preview

Instruction

```

push 0040F3B0h
call 00007F70D0F0A383h
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
xor byte ptr [eax], al
add byte ptr [eax], al
cmp byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
cmp al, 47h
add eax, 838AF2EAh
dec esp
xchg dword ptr [edx-41h], esp
popfd
sub eax, 0066210Bh
add byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [ecx], al
add byte ptr [eax], al
add byte ptr [ecx+00h], al
push es
push eax
xchg eax, ebx
add dl, byte ptr [esi+65h]
jnc 00007F70D0F0A406h
jnc 00007F70D0F0A392h
and al, 02h
add byte ptr [eax], al
add byte ptr [eax], al
dec esp
xor dword ptr [eax], eax
or al, 79h
push ebx
mov esi, 80015E4Dh

```


Name	Virtual Address	Virtual Size	Is in Section
IMAGE_DIRECTORY_ENTRY_BASERELOC	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_DEBUG	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_COPYRIGHT	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_GLOBALPTR	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_TLS	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_LOAD_CONFIG	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_BOUND_IMPORT	0x228	0x20	
IMAGE_DIRECTORY_ENTRY_IAT	0x1000	0x1a8	.text
IMAGE_DIRECTORY_ENTRY_DELAY_IMPORT	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_COM_DESCRIPTOR	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_RESERVED	0x0	0x0	

Sections

Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.text	0x1000	0x16c08	0x17000	False	0.446204144022	data	6.13431444514	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.data	0x18000	0x1260	0x1000	False	0.00634765625	data	0.0	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.rsrc	0x1a000	0x382a	0x4000	False	0.461853027344	data	5.140747892	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ

Resources

Name	RVA	Size	Type	Language	Country
RT_ICON	0x1cf82	0x8a8	data		
RT_ICON	0x1c8ba	0x6c8	data		
RT_ICON	0x1c352	0x568	GLS_BINARY_LSB_FIRST		
RT_ICON	0x1b2aa	0x10a8	data		
RT_ICON	0x1a922	0x988	data		
RT_ICON	0x1a4ba	0x468	GLS_BINARY_LSB_FIRST		
RT_GROUP_ICON	0x1a460	0x5a	data		
RT_VERSION	0x1a1e0	0x280	data	English	United States

Imports

DLL	Import
MSVBVM60.DLL	_Cicos, _adj_fptan, __vbaVarMove, __vbaFreeVar, __vbaLenBstr, __vbaStrVarMove, __vbaFreeVarList, __vbaEnd, _adj_fdiv_m64, __vbaFreeObjList, _adj_fprem1, __vbaSetSystemError, __vbaHresultCheckObj, __vbaLenBstrB, _adj_fdiv_m32, __vbaAryDestruct, __vbaOnError, __vbaObjSet, _adj_fdiv_m16i, __vbaObjSetAddr, _adj_fdivr_m16i, __vbaFpR8, __vbaVarTstLt, _CIsin, __vbaChkstk, EVENT_SINK_AddRef, __vbaStrCmp, __vbaObjVar, DllFunctionCall, _adj_fpatan, EVENT_SINK_Release, _CIsqrt, EVENT_SINK_QueryInterface, __vbaExceptionHandler, _adj_fprem, _adj_fdivr_m64, __vbaFPEException, __vbaStrVarVal, _Cilog, __vbaNew2, __vbaInStr, _adj_fdiv_m32i, _adj_fdivr_m32i, __vbaStrCopy, __vbaI4Str, __vbaFreeStrList, _adj_fdivr_m32, _adj_fdiv_r, __vbaVarTstNe, __vbaLateMemCall, __vbaVarAdd, __vbaStrToAnsi, __vbaVarDup, __vbaFpl4, __vbaLateMemCallLd, _Cltan, __vbaStrMove, _allmul, __vbaLateIdSt, _Cltan, __vbaFPInt, _Clexp, __vbaFreeStr, __vbaFreeObj

Version Infos

Description	Data
Translation	0x0409 0x04b0
InternalName	udmugning
FileVersion	1.00
CompanyName	Cluster-C
Comments	Cluster-C
ProductName	Cluster-C
ProductVersion	1.00
FileDescription	Cluster-C
OriginalFilename	udmugning.exe

Possible Origin

Language of compilation system	Country where language is spoken	Map

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: udmugning.exe PID: 3440 Parent PID: 5600

General

Start time:	09:56:48
Start date:	22/04/2021
Path:	C:\Users\user\Desktop\udmugning.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\udmugning.exe'
Imagebase:	0x400000
File size:	118784 bytes
MD5 hash:	3D04ED12388C92E15361681EF1921D7F
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	Visual Basic
Yara matches:	- Rule: JoeSecurity_GuLoader_1, Description: Yara detected GuLoader, Source: 00000001.00000002.474162328.0000000000401000.00000020.00020000.sdmp, Author: Joe Security - Rule: JoeSecurity_GuLoader_1, Description: Yara detected GuLoader, Source: 00000001.00000000.206225191.0000000000401000.00000020.00020000.sdmp, Author: Joe Security
Reputation:	low

File Activities

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol
File Path		Offset	Length	Completion	Count	Source Address	Symbol

Disassembly

