

JoeSandbox Cloud BASIC



ID: 403762

Sample Name: 202048f0000.dll

Cookbook: default.jbs

Time: 11:44:40

Date: 04/05/2021

Version: 32.0.0 Black Diamond

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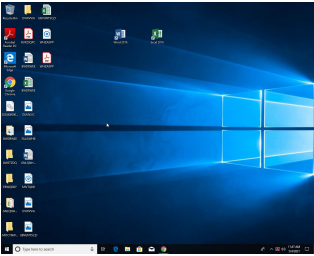
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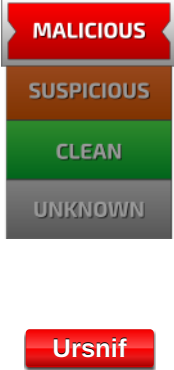
Analysis Report 202048f0000.dll

Overview

General Information

Sample Name:	202048f0000.dll
Analysis ID:	403762
MD5:	c4d495c1893db4...
SHA1:	c343b07c1ea5c2...
SHA256:	624086b51e6ae1..
Tags:	Gozi
Infos:	
Most interesting Screenshot:	
	

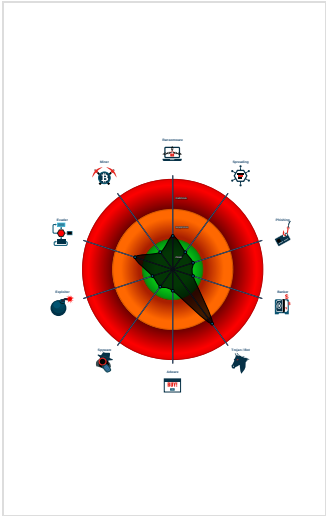
Detection

	
Score:	60
Range:	0 - 100
Whitelisted:	false
Confidence:	100%

Signatures

Antivirus / Scanner detection for sub...
Yara detected Ursnif
Machine Learning detection for samp...
Checks if the current process is bein...
Creates a process in suspended mo...
PE file does not import any functions
Program does not show much activi...
Tries to load missing DLLs

Classification



Startup

▪ System is w10x64
▪  loadaddll64.exe (PID: 7064 cmdline: loadaddll64.exe 'C:\Users\user\Desktop\202048f0000.dll' MD5: A84133CCB118CF35D49A423CD836D0EF)
▪  cmd.exe (PID: 7076 cmdline: cmd.exe /C rundll32.exe 'C:\Users\user\Desktop\202048f0000.dll',#1 MD5: 4E2ACF4F8A396486AB4268C94A6A245F)
▪  rundll32.exe (PID: 7116 cmdline: rundll32.exe 'C:\Users\user\Desktop\202048f0000.dll',#1 MD5: 73C519F050C20580F8A62C849D49215A)
▪  rundll32.exe (PID: 7096 cmdline: rundll32.exe C:\Users\user\Desktop\202048f0000.dll,#1 MD5: 73C519F050C20580F8A62C849D49215A)
▪ cleanup

Malware Configuration

No configs have been found

Yara Overview

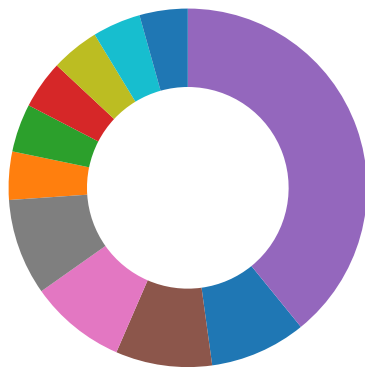
Initial Sample

Source	Rule	Description	Author	Strings
202048f0000.dll	JoeSecurity_Ursnif	Yara detected Ursnif	Joe Security	

Sigma Overview

No Sigma rule has matched

Signature Overview



- AV Detection
- Networking
- Key, Mouse, Clipboard, Microphone and Screen Capturing
- E-Banking Fraud
- System Summary
- Hooking and other Techniques for Hiding and Protection
- Malware Analysis System Evasion
- Anti Debugging
- HIPS / PFW / Operating System Protection Evasion
- Stealing of Sensitive Information
- Remote Access Functionality

Click to jump to signature section

AV Detection:



Antivirus / Scanner detection for submitted sample

Machine Learning detection for sample

Key, Mouse, Clipboard, Microphone and Screen Capturing:



Yara detected Ursnif

E-Banking Fraud:



Yara detected Ursnif

Hooking and other Techniques for Hiding and Protection:



Yara detected Ursnif

Stealing of Sensitive Information:



Yara detected Ursnif

Remote Access Functionality:



Yara detected Ursnif

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	DLL Side-Loading 1	Process Injection 1 1	Virtualization/Sandbox Evasion 1	OS Credential Dumping	Security Software Discovery 1 1	Remote Services	Data from Local System	Exfiltration Over Other Network Medium	Data Obfuscation	Eavesdrop on Insecure Network Communication
Default Accounts	Scheduled Task/Job	Boot or Logon Initialization Scripts	DLL Side-Loading 1	Rundll32 1	LSASS Memory	Virtualization/Sandbox Evasion 1	Remote Desktop Protocol	Data from Removable Media	Exfiltration Over Bluetooth	Junk Data	Exploit SS7 to Redirect Phone Calls/SMS
Domain Accounts	At (Linux)	Logon Script (Windows)	Logon Script (Windows)	Process Injection 1 1	Security Account Manager	System Information Discovery 1	SMB/Windows Admin Shares	Data from Network Shared Drive	Automated Exfiltration	Steganography	Exploit SS7 to Track Device Location



Antivirus, Machine Learning and Genetic Malware Detection

Initial Sample

Source	Detection	Scanner	Label	Link
202048f0000.dll	100%	Avira	HEUR/AGEN.1108168	
202048f0000.dll	100%	Joe Sandbox ML		

Dropped Files

No Antivirus matches

Unpacked PE Files

No Antivirus matches

Domains

No Antivirus matches

URLs

Source	Detection	Scanner	Label	Link
http://https://file://USER.ID%lu.exe/upd	0%	Avira URL Cloud	safe	
http://constitution.org/usdeclar.txt	0%	URL Reputation	safe	
http://constitution.org/usdeclar.txt	0%	URL Reputation	safe	

Source	Detection	Scanner	Label	Link
http://constitution.org/usdeclar.txt	0%	URL Reputation	safe	
http://constitution.org/usdeclar.txt	0%	URL Reputation	safe	
http://constitution.org/usdeclar.txt C:	0%	URL Reputation	safe	
http://constitution.org/usdeclar.txt C:	0%	URL Reputation	safe	
http://constitution.org/usdeclar.txt C:	0%	URL Reputation	safe	
http://constitution.org/usdeclar.txt C:	0%	URL Reputation	safe	

Domains and IPs

Contacted Domains

No contacted domains info

URLs from Memory and Binaries

Name	Source	Malicious	Antivirus Detection	Reputation
http://https://file://USER.ID%lu.exe/upd	202048f0000.dll	false	Avira URL Cloud: safe	low
http://constitution.org/usdeclar.txt	202048f0000.dll	false	- URL Reputation: safe - URL Reputation: safe - URL Reputation: safe - URL Reputation: safe	unknown
http://constitution.org/usdeclar.txt C:	202048f0000.dll	false	- URL Reputation: safe - URL Reputation: safe - URL Reputation: safe - URL Reputation: safe	unknown

Contacted IPs

No contacted IP infos

General Information

Joe Sandbox Version:	32.0.0 Black Diamond
Analysis ID:	403762
Start date:	04.05.2021
Start time:	11:44:40
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 4m 55s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	202048f0000.dll
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:	21
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:	mal60.troj.winDLL@7/0@0/0
EGA Information:	Failed
HDC Information:	Failed

HCA Information:	• Successful, ratio: 100% • Number of executed functions: 0 • Number of non-executed functions: 0
Cookbook Comments:	• Adjust boot time • Enable AMSI • Found application associated with file extension: .dll

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:	MS-DOS executable
Entropy (8bit):	6.331012479325387
TrID:	• Win64 Dynamic Link Library (generic) (102004/3) 84.88% • Win64 Executable (generic) (12005/4) 9.99% • DOS Executable Borland Pascal 7.0x (2037/25) 1.69% • Generic Win/DOS Executable (2004/3) 1.67% • DOS Executable Generic (2002/1) 1.67%
File name:	202048f0000.dll
File size:	223744
MD5:	c4d495c1893db4393bbae247fc5269a7
SHA1:	c343b07c1ea5c28f15e7ccc2c3f52b13b00883c

General	
SHA256:	624086b51e6ae13f1ba34b9f34566f22e0d5c481577916639268cac8929cfe1e
SHA512:	d22daaf9c7b7f11c2ffc8b50f409e110eb982370cf0ee73badbf1e04701531d709a7f9395ec3f61824af5c21c59f3981ff0e6646be41fd8962dfb136b9a861a
SSDEEP:	3072:fWlHqJ4VtWYQUVpsPHQqdPFQ6l7Bz9DHzcUvNfxYP9fGWg+Bm5kfxDLm:4qO/rsPHN7Q6l7Bz9zhvNJYPrg1UL
File Content Preview:	MZ.....PE..d..

File Icon

	
Icon Hash:	74f0e4ecccdce0e4

Static PE Info

General	
Entrypoint:	0x1800080e4
Entrypoint Section:	.text
Digitally signed:	false
Imagebase:	0x180000000
Subsystem:	windows gui
Image File Characteristics:	EXECUTABLE_IMAGE, DLL, LARGE_ADDRESS_AWARE
DLL Characteristics:	
Time Stamp:	0x60804A27 [Wed Apr 21 15:52:07 2021 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:	

Entrypoint Preview

Instruction
inc eax
push ebx
dec eax
sub esp, 20h
test edx, edx
mov ebx, 00000001h
je 00007FA164C34F76h
cmp edx, ebx
jne 00007FA164C34F81h
mov eax, ebx
lock xadd dword ptr [0002B8AFh], eax
add eax, ebx
cmp eax, ebx
jne 00007FA164C34F71h
dec ecx
mov edx, eax
call 00007FA164C47D22h
test eax, eax
je 00007FA164C34F65h
xor ebx, ebx
jmp 00007FA164C34F61h
lock add dword ptr [0002B891h], FFFFFFFFh
jne 00007FA164C34F57h

Instruction
call 00007FA164C46DE3h
mov eax, ebx
dec eax
add esp, 20h
pop ebx
ret
int3
int3
dec eax
mov dword ptr [esp+08h], ebx
dec eax
mov dword ptr [esp+10h], ebp
dec eax
mov dword ptr [esp+18h], esi
push edi
dec eax
sub esp, 20h
cmp dword ptr [0002BE31h], 00000000h
inc ecx
mov ebx, ecx
dec ecx
mov esi, eax
dec eax
mov eax, edx
je 00007FA164C34FF3h
xor edx, edx
dec eax
mov ecx, eax
call 00007FA164C2F575h
dec eax
mov ecx, dword ptr [0002B83Dh]
dec esp
lea eax, dword ptr [ebx+01h]
xor edx, edx
dec eax
mov ebp, eax
call dword ptr [00024F26h]
dec eax
test eax, eax
dec eax
mov edi, eax
je 00007FA164C34FC7h
dec esp
mov eax, ebx
dec eax
mov edx, esi
dec eax
mov ecx, eax
call 00007FA164C46Bh
dec eax
lea ecx, dword ptr [0002BDB9h]
mov byte ptr [ebx+edi], 00000000h
call dword ptr [0002504Fh]
lock add dword ptr [0002BDCFh], 01h
dec eax
lea ecx, dword ptr [00000000h]

Data Directories			
Name	Virtual Address	Virtual Size	Is in Section
IMAGE_DIRECTORY_ENTRY_EXPORT	0x31b10	0x38	.rdata
IMAGE_DIRECTORY_ENTRY_IMPORT	0x30a20	0x3c	.rdata
IMAGE_DIRECTORY_ENTRY_RESOURCE	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_EXCEPTION	0x34000	0x17ac	.pdata

Name	Virtual Address	Virtual Size	Is in Section
IMAGE_DIRECTORY_ENTRY_SECURITY	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_BASERELOC	0x39000	0x344	.reloc
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	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_IAT	0x2d000	0x530	.rdata
IMAGE_DIRECTORY_ENTRY_DELAY_IMPORT	0x2eda4	0x1e0	.rdata
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	0x2ba46	0x2bc00	False	0.568303571429	data	6.33861296477	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.rdata	0x2d000	0x4b48	0x4c00	False	0.403114720395	data	5.25264814147	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ
.data	0x32000	0x1f88	0x1a00	False	0.307842548077	lif file	3.73173431134	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.pdata	0x34000	0x17ac	0x1800	False	0.53857421875	data	5.30366145469	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ
.bss	0x36000	0x2148	0x2200	False	0.427504595588	data	4.96451183531	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.reloc	0x39000	0x1000	0xa00	False	0.458984375	data	4.2959680462	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ

Network Behavior

No network behavior found

Code Manipulations

Statistics

Behavior

- loaddll64.exe
- cmd.exe
- rundll32.exe
- rundll32.exe

 Click to jump to process

System Behavior

Analysis Process: loadll64.exe PID: 7064 Parent PID: 5976

General

Start time:	11:45:30
Start date:	04/05/2021
Path:	C:\Windows\System32\loadll64.exe
Wow64 process (32bit):	false
Commandline:	loadll64.exe 'C:\Users\user\Desktop\202048f0000.dll'
Imagebase:	0x7ff774420000
File size:	140288 bytes
MD5 hash:	A84133CCB118CF35D49A423CD836D0EF
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	moderate

File Activities

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol
-----------	--------	------------	---------	------------	-------	----------------	--------

Analysis Process: cmd.exe PID: 7076 Parent PID: 7064

General

Start time:	11:45:30
Start date:	04/05/2021
Path:	C:\Windows\System32\cmd.exe
Wow64 process (32bit):	false
Commandline:	cmd.exe /C rundll32.exe 'C:\Users\user\Desktop\202048f0000.dll',#1
Imagebase:	0x7ff622070000
File size:	273920 bytes
MD5 hash:	4E2ACF4F8A396486AB4268C94A6A245F
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol
-----------	--------	------------	---------	------------	-------	----------------	--------

Analysis Process: rundll32.exe PID: 7096 Parent PID: 7064

General

Start time:	11:45:31
Start date:	04/05/2021
Path:	C:\Windows\System32\rundll32.exe
Wow64 process (32bit):	false
Commandline:	rundll32.exe C:\Users\user\Desktop\202048f0000.dll,#1
Imagebase:	0x7ff6b2430000
File size:	69632 bytes

MD5 hash:	73C519F050C20580F8A62C849D49215A
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

File Path	Offset	Length	Completion	Count	Source Address	Symbol
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Analysis Process: rundll32.exe PID: 7116 Parent PID: 7076

General

Start time:	11:45:31
Start date:	04/05/2021
Path:	C:\Windows\System32\rundll32.exe
Wow64 process (32bit):	false
Commandline:	rundll32.exe "C:\Users\user\Desktop\202048f0000.dll",#1
Imagebase:	0x7ff6b2430000
File size:	69632 bytes
MD5 hash:	73C519F050C20580F8A62C849D49215A
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

File Path	Offset	Length	Completion	Count	Source Address	Symbol
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Disassembly

Code Analysis