

JOeSandbox Cloud BASIC



ID: 620140

Sample Name:

62724e14c3203.dll

Cookbook: default.jbs

Time: 11:59:27

Date: 04/05/2022

Version: 34.0.0 Boulder Opal

Table of Contents

Table of Contents	2
Windows Analysis Report 62724e14c3203.dll	4
Overview	4
General Information	4
Detection	4
Signatures	4
Classification	4
Process Tree	4
Malware Configuration	4
Yara Signatures	4
Initial Sample	4
Sigma Signatures	4
Snort Signatures	5
Joe Sandbox Signatures	5
AV Detection	5
Key, Mouse, Clipboard, Microphone and Screen Capturing	5
E-Banking Fraud	5
Hooking and other Techniques for Hiding and Protection	5
Malware Analysis System Evasion	5
Anti Debugging	5
Stealing of Sensitive Information	5
Remote Access Functionality	5
Mitre Att&ck Matrix	5
Behavior Graph	6
Screenshots	6
Thumbnails	6
Antivirus, Machine Learning and Genetic Malware Detection	7
Initial Sample	7
Dropped Files	7
Unpacked PE Files	8
Domains	8
URLs	8
Domains and IPs	8
Contacted Domains	8
URLs from Memory and Binaries	8
World Map of Contacted IPs	8
General Information	8
Warnings	9
Simulations	9
Behavior and APIs	9
Joe Sandbox View / Context	9
IPs	9
Domains	9
ASNs	9
JA3 Fingerprints	9
Dropped Files	9
Created / dropped Files	9
Static File Info	10
General	10
File Icon	10
Static PE Info	10
General	10
Entrypoint Preview	10
Rich Headers	12
Data Directories	12
Sections	12
Imports	13
Exports	13
Network Behavior	13
Statistics	13
Behavior	13
System Behavior	13
Analysis Process: loadll32.exePID: 2472, Parent PID: 3852	13
General	13
File Activities	14
Analysis Process: cmd.exePID: 4760, Parent PID: 2472	14
General	14
File Activities	14
Analysis Process: regsvr32.exePID: 3556, Parent PID: 2472	14
General	14
Analysis Process: rundll32.exePID: 4612, Parent PID: 4760	15
General	15
Analysis Process: rundll32.exePID: 1340, Parent PID: 2472	15
General	15



Windows Analysis Report

62724e14c3203.dll

Overview

General Information

Sample Name:

62724e14c3203.dll

Analysis ID:

620140

MD5:

d8b1d46801506b.

SHA1:

af58e06fafcf944...

SHA256:

ac633cc57571ff5..

Tags:

dll

enel

enelenergia

gozi

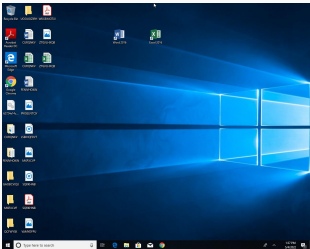
isfb

ita

ursnif

Infos:





Detection

MALICIOUS

SUSPICIOUS

CLEAN

UNKNOWN

Ursnif

Score:

72

Range:

0 - 100

Whitelisted:

false

Confidence:

100%

Signatures

Multi AV Scanner detection for subm...

Yara detected Ursnif

Tries to detect sandboxes and other...

Query firmware table information (lik...

Tries to detect sandboxes / dynamic...

Machine Learning detection for sam...

Uses 32bit PE files

PE file contains an invalid checksum

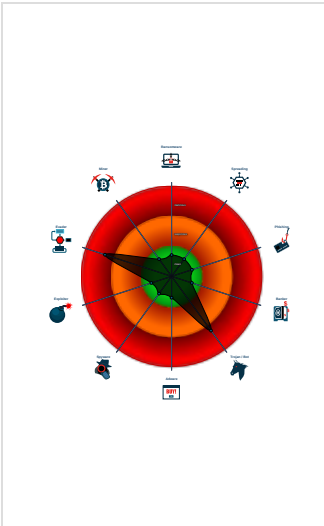
Tries to load missing DLLs

May sleep (evasive loops) to hinder...

PE file contains sections with non-s...

Contains capabilities to detect virtua...

Classification



Process Tree

System is w10x64

loaddll32.exe

(PID: 2472 cmdline: loaddll32.exe "C:\Users\user\Desktop\62724e14c3203.dll" MD5: 7DEB5DB86C0AC789123DEC286286B938)

cmd.exe

(PID: 4760 cmdline: cmd.exe /C rundll32.exe "C:\Users\user\Desktop\62724e14c3203.dll",#1 MD5: F3BDBE3BB6F734E357235F4D5898582D)

rundll32.exe

(PID: 4612 cmdline: rundll32.exe "C:\Users\user\Desktop\62724e14c3203.dll",#1 MD5: D7CA562B0DB4F4DD0F03A89A1FDAD63D)

regsvr32.exe

(PID: 3556 cmdline: regsvr32.exe /s C:\Users\user\Desktop\62724e14c3203.dll MD5: 426E7499F6A7346F0410DEAD0805586B)

rundll32.exe

(PID: 1340 cmdline: rundll32.exe C:\Users\user\Desktop\62724e14c3203.dll,DllRegisterServer MD5: D7CA562B0DB4F4DD0F03A89A1FDAD63D)

cleanup

Malware Configuration

No configs have been found

Yara Signatures

Initial Sample

Source	Rule	Description	Author	Strings
62724e14c3203.dll	JoeSecurity_Ursnif_1	Yara detected Ursnif	Joe Security	

Sigma Signatures

No Sigma rule has matched

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Page 4 of 15

Snort Signatures

⛔ No Snort rule has matched

Joe Sandbox Signatures

AV Detection



Multi AV Scanner detection for submitted file

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

Malware Analysis System Evasion



Query firmware table information (likely to detect VMs)

Tries to detect sandboxes / dynamic malware analysis system (registry check)

Anti Debugging



Tries to detect sandboxes and other dynamic analysis tools (window names)

Stealing of Sensitive Information



Yara detected Ursnif

Remote Access Functionality

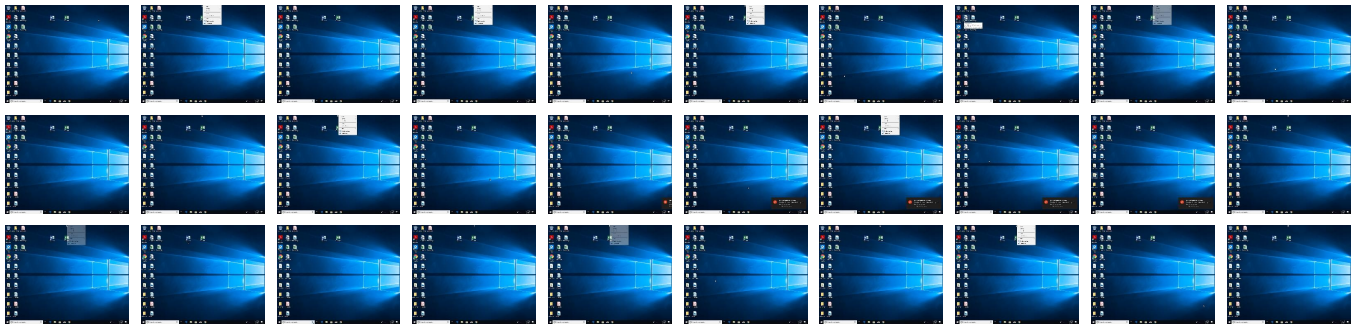


Yara detected Ursnif

Mitre Att&ck Matrix

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects	Remote Service Effects	Impact
Valid Accounts	Windows Management Instrumentation	1 DLL Side-Loading	1 1 Process Injection	1 Regsvr32	OS Credential Dumping	3 1 Security Software Discovery	Remote Services	Data from Local System	Exfiltration Over Other Network Medium	Data Obfuscation	Eavesdrop on Insecure Network Communication	Remotely Track Device Without Authorization	Modify System Partition

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
62724e14c3203.dll	29%	Virustotal		Browse
62724e14c3203.dll	29%	ReversingLabs	Win32.Trojan.Ursni f	
62724e14c3203.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://pki-ocsp.symauth.com0	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://pki-crl.symauth.com/offlineca/TheInstituteofElectricalandElectronicsEngineersIncIEEERootCA.cr	62724e14c3203.dll	false		high
http://pki-ocsp.symauth.com0	62724e14c3203.dll	false	• URL Reputation: safe	unknown
http://pki-crl.symauth.com/ca_d409a5cb737dc0768fd08ed5256f3633/LatestCRL.crl07	62724e14c3203.dll	false		high

World Map of Contacted IPs

 No contacted IP infos

General Information	
Joe Sandbox Version:	34.0.0 Boulder Opal
Analysis ID:	620140
Start date and time: 04/05/202211:59:27	2022-05-04 11:59:27 +02:00
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 6m 33s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	62724e14c3203.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:	19
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.winDLL@9/0@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:	• Found application associated with file extension: .dll • Adjust boot time • Enable AMSI • Override analysis time to 240s for rundll32

Warnings

- Exclude process from analysis (whitelisted): MpCmdRun.exe, audiodg.exe, WMIADAP.exe, backgroundTaskHost.exe, SgrmBroker.exe, conhost.exe, svchost.exe
- Excluded IPs from analysis (whitelisted): 20.40.129.122, 23.211.6.115
- Excluded domains from analysis (whitelisted): e12564.dspb.akamaiedge.net, fs.microsoft.com, store-images.s-microsoft.com, arc.trafficmanager.net, store-images.s-microsoft.com-c.edgkey.net, time.windows.com, iris-de-prod-azsc-frc.francecentral.cloudapp.azure.com, arc.msn.com
- Not all processes where analyzed, report is missing behavior information

Simulations

Behavior and APIs

Time	Type	Description
12:00:32	API Interceptor	1x Sleep call for process: regsvr32.exe modified
12:00:32	API Interceptor	1x Sleep call for process: rundll32.exe modified
12:00:36	API Interceptor	2x Sleep call for process: loaddll32.exe modified

Joe Sandbox View / Context

IPs

No context

Domains

No context

ASNs

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 (DLL) (GUI) Intel 80386, for MS Windows
Entropy (8bit):	6.015061702913002
TrID:	- Win32 Dynamic Link Library (generic) (1002004/3) 99.60% - Generic Win/DOS Executable (2004/3) 0.20% - DOS Executable Generic (2002/1) 0.20% - Autodesk FLIC Image File (extensions: flc, fli, cel) (7/3) 0.00%
File name:	62724e14c3203.dll
File size:	3735060
MD5:	d8b1d46801506b84938f864365bc7c81
SHA1:	af58e06fafcf944e800ac5029b5a40ce5326db3e
SHA256:	ac633cc57571ff54a72dd8cac9236cddef488af8074e08a3b17b53983d3f0733
SHA512:	672ae9a31d0d5a6c6c724d5ca22a408938a15729e8abc93036575062b6ea078e64f7ecd7d4ca2aece79b69520ade7727c0351bb7d6e904212d38f56dc20c30af
SSDEEP:	49152:3TeGCEZ8YnAM+OxCYxsk2GVybVpr7Vt+S/z:3TBCEZXAM+O4msk2GV4Vprxt+SL/
TLSH:	36065AE1760AA5CFD09A5AF89813CF026B3C53F94A115D13EDA9787F6D63CC13289E24
File Content Preview:	MZ.....@.....!..L.!This program cannot be run in DOS mode....\$.....lo.....v.....W.....V.....v.....Rich.....PE..L....Chb...

File Icon

	
Icon Hash:	74f0e4ecccdce0e4

Static PE Info

General

Entrypoint:	0x10394000
Entrypoint Section:	.taggant
Digitally signed:	false
Imagebase:	0x10000000
Subsystem:	windows gui
Image File Characteristics:	32BIT_MACHINE, EXECUTABLE_IMAGE, DLL
DLL Characteristics:	
Time Stamp:	0x626843F2 [Tue Apr 26 19:11:46 2022 UTC]
TLS Callbacks:	
CLR (.Net) Version:	
OS Version Major:	5
OS Version Minor:	0
File Version Major:	5
File Version Minor:	0
Subsystem Version Major:	5
Subsystem Version Minor:	0
Import Hash:	c846031d91edf5130318f0a56b358ac5

Entrypoint Preview

Instruction

jmp 00007FB628B3664Ah
pmaxub mm7, qword ptr [eax]
add byte ptr [eax], al
add byte ptr [eax], al
add cl, ch
add byte ptr [eax], ah
add byte ptr [eax], al
push esp
inc ecx
inc edi
inc edi

Instruction
add byte ptr [eax], al
add byte ptr [esi+edi*8], dl
cmp byte ptr [eax], al
add byte ptr [eax], al
add byte ptr [eax], al
sub al, byte ptr [eax]
add al, byte ptr [eax]
add dword ptr [eax], eax
imul ebp, dword ptr [edx], F0h

Rich Headers
Programming Language: [ASM] VS2008 SP1 build 30729 [LNK] VS2008 SP1 build 30729 [IMP] VS2008 SP1 build 30729 [EXP] VS2008 SP1 build 30729

Data Directories			
Name	Virtual Address	Virtual Size	Is in Section
IMAGE_DIRECTORY_ENTRY_EXPORT	0xe000	0x4c	.exports
IMAGE_DIRECTORY_ENTRY_IMPORT	0xf07b	0x6c	.imports
IMAGE_DIRECTORY_ENTRY_RESOURCE	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_EXCEPTION	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_SECURITY	0x0	0x0	
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	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_IAT	0x0	0x0	
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	0x16b7	0x1800	False	0.700846354167	data	6.45396003483	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.rdata	0x3000	0x59c	0x600	False	0.185546875	data	1.83732227468	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ
.data	0x4000	0x25c	0x200	False	0.08984375	data	0.369416603835	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.bss	0x5000	0x2dc	0x400	False	0.7626953125	data	6.25781926122	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.reloc	0x6000	0x8000	0x7200	False	0.970086348684	data	7.85482039795	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ
.exports	0xe000	0x1000	0x200	False	0.140625	data	0.781993247616	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ
.imports	0xf000	0x1000	0x200	False	0.26171875	data	2.01907876474	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ

Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.themida	0x10000	0x384000	0x384000	unknown	unknown	unknown	unknown	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.taggant	0x394000	0x2200	0x2014	False	0.32976132489	DOS executable (COM)	3.88631067097	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ

Imports	
DLL	Import
kernel32.dll	GetModuleHandleA
ntdll.dll	_snwprintf
ADVAPI32.dll	ConvertStringSecurityDescriptorToSecurityDescriptorA

Exports		
Name	Ordinal	Address
DllRegisterServer	1	0x100011c2

Network Behavior

No network behavior found

Statistics

Behavior

● loaddll32.exe

● cmd.exe

● regsvr32.exe

● rundll32.exe

● rundll32.exe

Click to jump to process

System Behavior

Analysis Process: loaddll32.exe PID: 2472, Parent PID: 3852

General

Target ID:

0

Start time:

12:00:29

Start date:	04/05/2022
Path:	C:\Windows\System32\loadll32.exe
Wow64 process (32bit):	true
Commandline:	loadll32.exe "C:\Users\user\Desktop\62724e14c3203.dll"
Imagebase:	0x140000
File size:	116736 bytes
MD5 hash:	7DEB5DB86C0AC789123DEC286286B938
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

There is hidden Windows Behavior. Click on **Show Windows Behavior** to show it.

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

Analysis Process: cmd.exe PID: 4760, Parent PID: 2472

General

Target ID:	1
Start time:	12:00:29
Start date:	04/05/2022
Path:	C:\Windows\SysWOW64\cmd.exe
Wow64 process (32bit):	true
Commandline:	cmd.exe /C rundll32.exe "C:\Users\user\Desktop\62724e14c3203.dll",#1
Imagebase:	0x1190000
File size:	232960 bytes
MD5 hash:	F3BDBE3BB6F734E357235F4D5898582D
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

There is hidden Windows Behavior. Click on **Show Windows Behavior** to show it.

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

Analysis Process: regsvr32.exe PID: 3556, Parent PID: 2472

General

Target ID:	2
Start time:	12:00:30
Start date:	04/05/2022
Path:	C:\Windows\SysWOW64\regsvr32.exe
Wow64 process (32bit):	true
Commandline:	regsvr32.exe /s C:\Users\user\Desktop\62724e14c3203.dll
Imagebase:	0xb70000
File size:	20992 bytes
MD5 hash:	426E7499F6A7346F0410DEAD0805586B
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

Analysis Process: rundll32.exe PID: 4612, Parent PID: 4760**General**

Target ID:	3
Start time:	12:00:30
Start date:	04/05/2022
Path:	C:\Windows\SysWOW64\rundll32.exe
Wow64 process (32bit):	true
Commandline:	rundll32.exe "C:\Users\user\Desktop\62724e14c3203.dll",#1
Imagebase:	0x970000
File size:	61952 bytes
MD5 hash:	D7CA562B0DB4F4DD0F03A89A1FDAD63D
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

Analysis Process: rundll32.exe PID: 1340, Parent PID: 2472**General**

Target ID:	4
Start time:	12:00:30
Start date:	04/05/2022
Path:	C:\Windows\SysWOW64\rundll32.exe
Wow64 process (32bit):	true
Commandline:	rundll32.exe C:\Users\user\Desktop\62724e14c3203.dll,DllRegisterServer
Imagebase:	0x970000
File size:	61952 bytes
MD5 hash:	D7CA562B0DB4F4DD0F03A89A1FDAD63D
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

Disassembly No disassembly