

JOESandbox Cloud BASIC



ID: 450598

Sample Name: SOCAR

Petroleum S.A Romania ordin
urgent nr. 21199.exe

Cookbook: default.jbs

Time: 12:41:29

Date: 19/07/2021

Version: 33.0.0 White Diamond

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Windows Analysis Report SOCAR Petroleum S.A Roma...

Overview

General Information

Sample Name:	SOCAR Petroleum S.A Romania ordin urgent nr. 21199.exe
Analysis ID:	450598
MD5:	597eff654078021...
SHA1:	74fcaa7b00efdc...
SHA256:	464e32b273ff94e..
Tags:	exe
Infos:	
Most interesting Screenshot:	

Detection

MALICIOUS

SUSPICIOUS

CLEAN

UNKNOWN

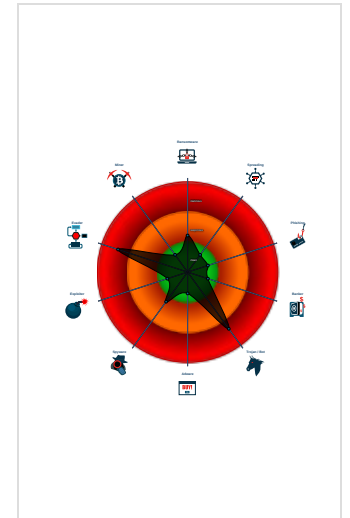
GuLoader

Score:	84
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...
- Contains functionality to detect hard...
- Detected RDTSC dummy instruction...
- Found potential dummy code loops (...)
- Tries to detect virtualization through...
- Abnormal high CPU Usage
- Contains functionality for execution ...
- Contains functionality to call native f...
- Contains functionality to query CPU ...

Classification



Process Tree

- System is w10x64
- SOCAR Petroleum S.A Romania ordin urgent nr. 21199.exe (PID: 5968 cmdline: 'C:\Users\user\Desktop\SOCAR Petroleum S.A Romania ordin urgent nr. 21199.exe' MD5: 597EFF6540780213008D384CA831852A)
- cleanup

Malware Configuration

Threatname: GuLoader

```
{  
  "Payload URL": "https://andreameixeiro.com/karin_entmCgmZw1b;z"  
}
```

Yara Overview

Initial Sample

Source	Rule	Description	Author	Strings
SOCAR Petroleum S.A Romania ordin urgent nr. 21199.exe	JoeSecurity_GuLoader_1	Yara detected GuLoader	Joe Security	

Memory Dumps

Source	Rule	Description	Author	Strings
00000001.00000000.199329516.000000000040 1000.00000020.00020000.sdmp	JoeSecurity_GuLoader_1	Yara detected GuLoader	Joe Security	
00000001.00000002.1279452529.00000000004 01000.00000020.00020000.sdmp	JoeSecurity_GuLoader_1	Yara detected GuLoader	Joe Security	


Unpacked PES

Source	Rule	Description	Author	Strings
1.0.SOCAR Petroleum S.A Romania ordin urgent nr. 2 1199.exe.400000.0.unpack	JoeSecurity_GuLoader_1	Yara detected GuLoader	Joe Security	
1.2.SOCAR Petroleum S.A Romania ordin urgent nr. 2 1199.exe.400000.0.unpack	JoeSecurity_GuLoader_1	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

Malware Analysis System Evasion:



Contains functionality to detect hardware virtualization (CPUID execution measurement)

Detected RDTS instruction sequence (likely for instruction hammering)

Tries to detect virtualization through RDTS time measurements

Anti Debugging:



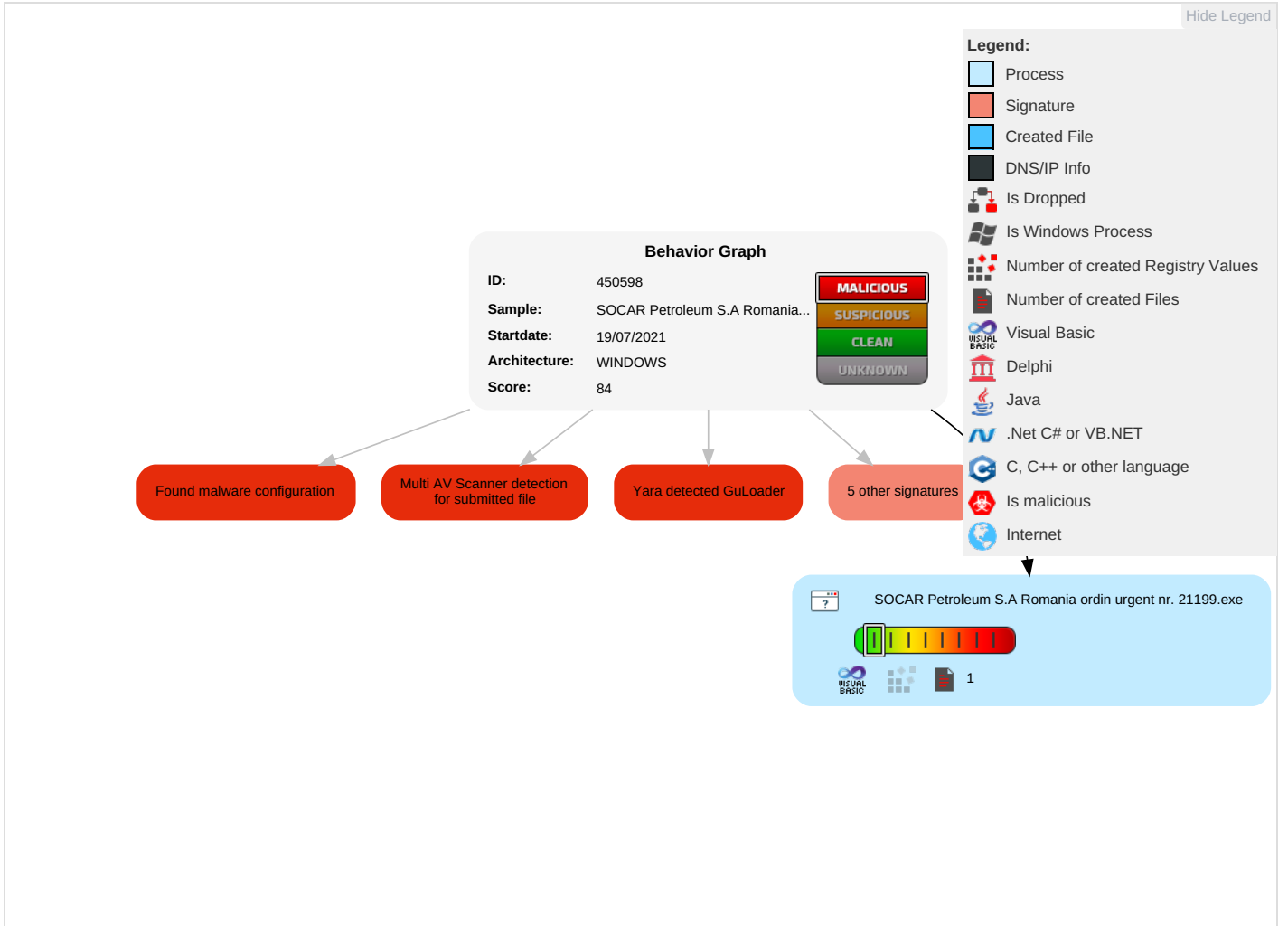
Found potential dummy code loops (likely to delay analysis)

Mitre Att&ck Matrix

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects	Risk Score
Valid Accounts	Windows Management Instrumentation	Path Interception	Process Injection 1	Virtualization/Sandbox Evasion 1 1	OS Credential Dumping	Security Software Discovery 4 1	Remote Services	Archive Collected Data 1	Exfiltration Over Other Network Medium	Encrypted Channel 1	Eavesdrop on Insecure Network Communication	R: T: W: Ai
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	Data from Removable Media	Exfiltration Over Bluetooth	Application Layer Protocol 1	Exploit SS7 to Redirect Phone Calls/SMS	R: W: W: Ai
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	O: D: C: B:

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects	Risk Score
Local Accounts	At (Windows)	Logon Script (Mac)	Logon Script (Mac)	Binary Padding	NTDS	System Information Discovery 3 1 1	Distributed Component Object Model	Input Capture	Scheduled Transfer	Protocol Impersonation	SIM Card Swap	

Behavior Graph



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
SOCAR Petroleum S.A Romania ordin urgent nr. 21199.exe	21%	Virustotal		Browse
SOCAR Petroleum S.A Romania ordin urgent nr. 21199.exe	9%	ReversingLabs		

Dropped Files

No Antivirus matches

Unpacked PE Files

No Antivirus matches

Domains

No Antivirus matches

URLs

Source	Detection	Scanner	Label	Link
http://https://andreameixueiro.com/karin_entmCGmZw1b;z	0%	Avira URL Cloud	safe	

Domains and IPs

Contacted Domains

No contacted domains info

Contacted URLs

Name	Malicious	Antivirus Detection	Reputation
http://https://andreameixueiro.com/karin_entmCGmZw1b;z	true	<ul style="list-style-type: none"> Avira URL Cloud: safe 	unknown

Contacted IPs

No contacted IP infos

General Information

Joe Sandbox Version:	33.0.0 White Diamond
Analysis ID:	450598
Start date:	19.07.2021
Start time:	12:41:29
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 12m 23s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	SOCAR Petroleum S.A Romania ordin urgent nr. 21199.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
Run name:	Suspected Instruction Hammering Hide Perf
Number of analysed new started processes analysed:	39
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:	mal84.troj.evad.winEXE@1/0@0/0
EGA Information:	Failed
HDC Information:	<ul style="list-style-type: none"> Successful, ratio: 8.5% (good quality ratio 3.1%) Quality average: 20.3% Quality standard deviation: 30.2%
HCA Information:	Failed
Cookbook Comments:	<ul style="list-style-type: none"> Adjust boot time Enable AMSI Found application associated with file extension: .exe
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):	6.2291079634082305
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:	SOCAR Petroleum S.A Romania ordin urgent nr. 21199.exe
File size:	241664
MD5:	597eff6540780213008d384ca831852a
SHA1:	74fcaa7b00efdfc2056eb4651aea03c529d9bf8d
SHA256:	464e32b273ff94e18247402fec1445dceb07fe8ea16490038fa64b9a23672cf0
SHA512:	c15389829bb474e00e8c60912a5c78ff7f5bc459e55bf984f5ce9f4e2478c005908d51d4a629708cb1f811f37213bd8c04a8b9fc68459ce666983cb767b80114
SSDEEP:	3072:v3BepJlZa/Qrp8XvPZFbzt2dQXty7gHJlZapGBR:p iUQrOfKorHP
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....?@P.....0...@.....

File Icon



Icon Hash:

f8fcd4ccf4e4e8d0

Static PE Info

General

Entrypoint:	0x4019b0
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:	0x50403FEF [Fri Aug 31 04:39:11 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:	e9f7dd0da1a2a1266893e1ae4ef42b67

Entrypoint Preview

Data Directories

Sections

Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.text	0x1000	0x31804	0x32000	False	0.390200195312	data	6.38510729758	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.data	0x33000	0x1290	0x1000	False	0.00634765625	data	0.0	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.rsrc	0x35000	0x6d26	0x7000	False	0.482107979911	data	5.46196518031	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: SOCAR Petroleum S.A Romania ordin urgent nr. 21199.exe PID: 5968 Parent PID: 5572

General

Start time:	12:42:15
Start date:	19/07/2021
Path:	C:\Users\user\Desktop\SOCAR Petroleum S.A Romania ordin urgent nr. 21199.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\SOCAR Petroleum S.A Romania ordin urgent nr. 21199.exe'
Imagebase:	0x400000
File size:	241664 bytes
MD5 hash:	597EFF6540780213008D384CA831852A
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	Visual Basic
Yara matches:	<ul style="list-style-type: none">• Rule: JoeSecurity_GuLoader_1, Description: Yara detected GuLoader, Source: 00000001.00000000.199329516.0000000000401000.00000020.00020000.sdmp, Author: Joe Security• Rule: JoeSecurity_GuLoader_1, Description: Yara detected GuLoader, Source: 00000001.00000002.1279452529.0000000000401000.00000020.00020000.sdmp, Author: Joe Security
Reputation:	low

File Activities

Show Windows behavior

Disassembly

Code Analysis