

JoeSandbox Cloud BASIC



ID: 457978

Sample Name:

[http___2.56.59.76_alig.jpg](http://2.56.59.76_alig.jpg)

Cookbook: default.jbs

Time: 16:28:10

Date: 02/08/2021

Version: 33.0.0 White Diamond

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Windows Analysis Report http___2.56.59.76_alig.jpg

Overview

General Information

Sample Name:

http___2.56.59.76_alig.jpg
(renamed file extension from jpg to exe)

Analysis ID:

457978

MD5:

4cb9e2f765041f7..

SHA1:

472ee254ad0196..

SHA256:

bd068442713d66..

Tags:

exe

jpg

Infos:

Most interesting Screenshot:

Detection

MALICIOUS

SUSPICIOUS

CLEAN

UNKNOWN

GuLoader

Score:

76

Range:

0 - 100

Whitelisted:

false

Confidence:

100%

Signatures

Found malware configuration

Yara detected GuLoader

C2 URLs / IPs found in malware con...

Contains functionality to detect hard...

Found potential dummy code loops (...)

Machine Learning detection for samp...

Tries to detect virtualization through...

Abnormal high CPU Usage

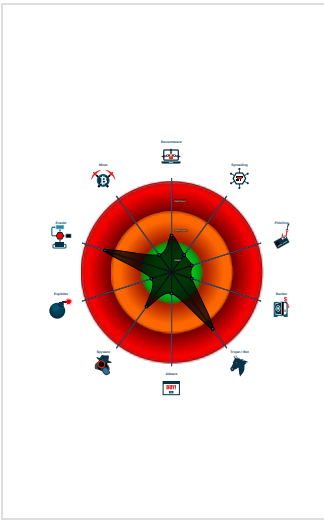
Contains functionality for execution ...

Contains functionality to call native f...

Contains functionality to query CPU ...

Contains functionality to read the PEB

Classification



Process Tree

- System is w10x64
- http___2.56.59.76_alig.exe (PID: 7152 cmdline: 'C:\Users\user\Desktop\http___2.56.59.76_alig.exe' MD5: 4CB9E2F765041F74D74E4635144CE621)
- cleanup

Malware Configuration

Threatname: GuLoader

```
{  "Payload URL": "https://onedrive.live.com/download"}
```

Yara Overview

Memory Dumps

| Source | Rule | Description | Author | Strings |
|--|------------------------|------------------------|--------------|---------|
| 00000001.00000002.1158179562.0000000003CB0000.00000040.00000001.sdmp | JoeSecurity_GuLoader_2 | Yara detected GuLoader | Joe Security | |

Sigma Overview

No Sigma rule has matched

Jbx Signature Overview

AV Detection:



Found malware configuration

Machine Learning detection for sample

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)

Tries to detect virtualization through RDTSC time measurements

Anti Debugging:

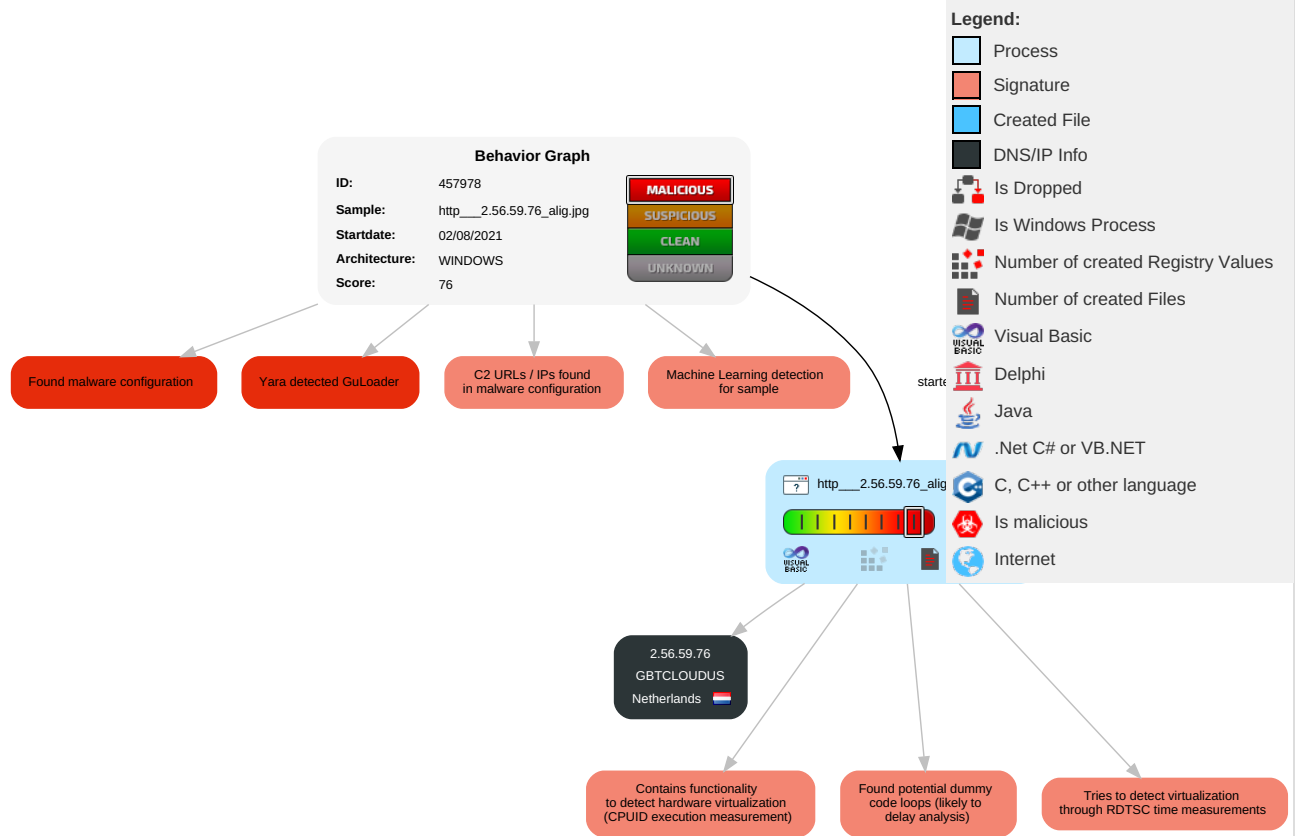


Found potential dummy code loops (likely to delay analysis)

Mitre Att&ck Matrix

| Initial Access | Execution | Persistence | Privilege Escalation | Defense Evasion | Credential Access | Discovery | Lateral Movement | Collection | Exfiltration | Command and Control | Network Effects |
|------------------|------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|--------------------------|------------------------------------|------------------------------------|--------------------------------|--|------------------------------|---|
| Valid Accounts | Windows Management Instrumentation | Path Interception | Process Injection 1 | Virtualization/Sandbox Evasion 1 1 | Input Capture 2 1 | Security Software Discovery 3 1 | Remote Services | Input Capture 2 1 | Exfiltration Over Other Network Medium | Encrypted Channel 1 | Eavesdrop on Insecure Network Communication |
| 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 |
| 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 |
| Local Accounts | At (Windows) | Logon Script (Mac) | Logon Script (Mac) | Binary Padding | NTDS | File and Directory Discovery 1 | Distributed Component Object Model | Input Capture | Scheduled Transfer | Protocol Impersonation | SIM Card Swap |
| Cloud Accounts | Cron | Network Logon Script | Network Logon Script | Software Packing | LSA Secrets | System Information Discovery 2 1 1 | SSH | Keylogging | Data Transfer Size Limits | Fallback Channels | Manipulate Device Communication |

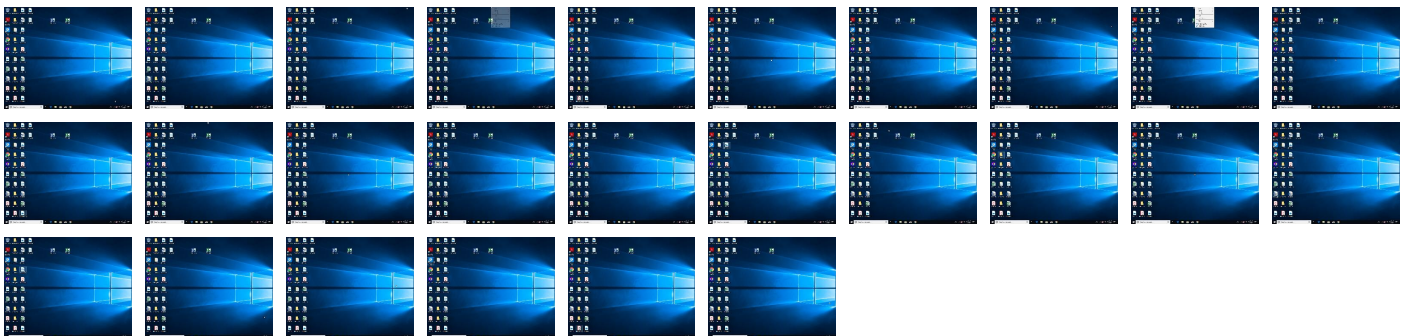
Behavior Graph



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 |
|----------------------------|-----------|----------------|-------|------|
| http___2.56.59.76_alig.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 URLs

| Name | Malicious | Antivirus Detection | Reputation |
|---|-----------|---------------------|------------|
| http://https://onedrive.live.com/download | false | | high |

Contacted IPs

Public

| IP | Domain | Country | Flag | ASN | ASN Name | Malicious |
|------------|---------|-------------|---|--------|------------|-----------|
| 2.56.59.76 | unknown | Netherlands |  | 395800 | GBTCLOUDUS | false |

General Information

| | |
|--|--|
| Joe Sandbox Version: | 33.0.0 White Diamond |
| Analysis ID: | 457978 |
| Start date: | 02.08.2021 |
| Start time: | 16:28:10 |
| Joe Sandbox Product: | CloudBasic |
| Overall analysis duration: | 0h 7m 2s |
| Hypervisor based Inspection enabled: | false |
| Report type: | light |
| Sample file name: | http__2.56.59.76_alig.jpg (renamed file extension from jpg to 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: | 13 |
| 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: | mal76.troj.evad.winEXE@1/0@0/1 |
| EGA Information: | Failed |
| HDC Information: | <ul style="list-style-type: none">• Successful, ratio: 1.2% (good quality ratio 0%)• Quality average: 1%• Quality standard deviation: 2% |
| HCA Information: | Failed |
| Cookbook Comments: | <ul style="list-style-type: none">• Adjust boot time• Enable AMSI• 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

| Match | Associated Sample Name / URL | SHA 256 | Detection | Link | Context |
|------------|------------------------------|--------------------------|-----------|------------------------|--|
| 2.56.59.76 | ISO certificate.js | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.76/efryses.jpg |

Domains

No context

ASN

| Match | Associated Sample Name / URL | SHA 256 | Detection | Link | Context |
|------------|--------------------------------|--------------------------|-----------|------------------------|--|
| GBTCLOUDUS | 93ejLcdBh5.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | QUOTEGMC 92304882399300PDF.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.84 |
| | CLnraL1yNc.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | bo45SS7ic.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.13 |
| | JXFHx4gRdl.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | 226wkEc1Jt.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | 28XiT9luAd | Get hash | malicious | Browse | <ul style="list-style-type: none">5.180.254.80 |
| | 2oqbSqXHmw.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | Rli1iCfuVK.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | oEF7GAiRlg | Get hash | malicious | Browse | <ul style="list-style-type: none">45.11.15.116 |
| | GEso3CniSk | Get hash | malicious | Browse | <ul style="list-style-type: none">45.11.15.127 |
| | ySZpdJfqMO.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | IPVrDRKfYj.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | 6BeKYZk7bg.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | Odeme Plani.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.45 |
| | xAC6nZjT3T.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | Cx9ER7vYGi.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | xBMx9OBP97.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | jYzWBKtsxE.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |
| | CSyG3zNcwS.exe | Get hash | malicious | Browse | <ul style="list-style-type: none">2.56.59.245 |

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): | 6.4509405404826605 |

General

| | |
|-----------------------|---|
| 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: | http__2.56.59.76_alig.exe |
| File size: | 143360 |
| MD5: | 4cb9e2f765041f74d74e4635144ce621 |
| SHA1: | 472ee254ad0196a8a80517d19d2d2f3f0df1 added7 |
| SHA256: | bd068442713d668c544ed7c9b439e27121b33ac1573b12c95c7ff7ca8003d283 |
| SHA512: | 702a46be89a2473b2b7d6dfd0eb639ce8eb62b349a8b065703e500885bcb14cacf62558fb0f3113e25c78f71adda798b47cdf294da5c1efa69f093f67fc1532 |
| SSDEEP: | 3072:71C0Uu0lfu5AIRSJCGwNNNerSeMn5GqY4wNGZ+M:8u0lDlsJCggNNHzL3wc+ |
| 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.....H.....0.....@..... |

File Icon



| | |
|------------|-----------------|
| Icon Hash: | c4e8c8ccce0e8e8 |
|------------|-----------------|

Static PE Info

| | |
|-----------------------------|---|
| General | |
| Entrypoint: | 0x4014b4 |
| 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: | 0x48BAEC05 [Sun Aug 31 19:07:49 2008 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: | fef384fc3a66a559dff455f07d497ca0 |

Entrypoint Preview

Data Directories

Sections


| Name | Virtual Address | Virtual Size | Raw Size | Xored PE | ZLIB Complexity | File Type | Entropy | Characteristics |
|-------|-----------------|--------------|----------|----------|-----------------|-----------|---------------|---|
| .text | 0x1000 | 0x1fd8c | 0x20000 | False | 0.388229370117 | data | 6.74552663874 | IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ |
| .data | 0x21000 | 0x11bc | 0x1000 | False | 0.00634765625 | data | 0.0 | IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ |
| .rsrc | 0x23000 | 0xc08 | 0x1000 | False | 0.312255859375 | data | 3.25895925558 | 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 |
|--------------------------------|----------------------------------|---|
| Chinese | Taiwan |  |

Network Behavior

No network behavior found

Code Manipulations

Statistics

System Behavior

Analysis Process: [http__2.56.59.76_alig.exe](#) PID: 7152 Parent PID: 5900

General

| | |
|-------------------------------|---|
| Start time: | 16:28:52 |
| Start date: | 02/08/2021 |
| Path: | C:\Users\user\Desktop\http__2.56.59.76_alig.exe |
| Wow64 process (32bit): | true |
| Commandline: | 'C:\Users\user\Desktop\http__2.56.59.76_alig.exe' |
| Imagebase: | 0x400000 |
| File size: | 143360 bytes |
| MD5 hash: | 4CB9E2F765041F74D74E4635144CE621 |
| Has elevated privileges: | true |
| Has administrator privileges: | true |
| Programmed in: | Visual Basic |
| Yara matches: | <ul style="list-style-type: none">Rule: JoeSecurity_GuLoader_2, Description: Yara detected GuLoader, Source: 00000001.00000002.1158179562.0000000003CB0000.00000040.00000001.sdmp, Author: Joe Security |
| Reputation: | low |

File Activities

Show Windows behavior

Disassembly

Code Analysis

