

ID: 461927
Sample Name: oBfsC4t10n2.xls
Cookbook: defaultwindowsofficecookbook.jbs
Time: 18:53:49
Date: 09/08/2021
Version: 33.0.0 White Diamond

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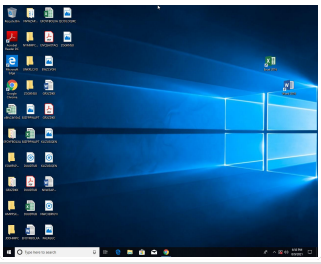
Windows Analysis Report oBfsC4t10n2.xls

Overview

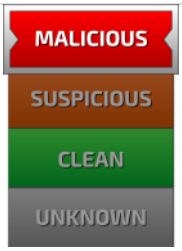
General Information

Sample Name:	oBfsC4t10n2.xls
Analysis ID:	461927
MD5:	0c09fbdf98f0a61…
SHA1:	bb4a594ecf90ed6.
SHA256:	1f156f86d45e28d..
Infos:	

Most interesting Screenshot:



Detection



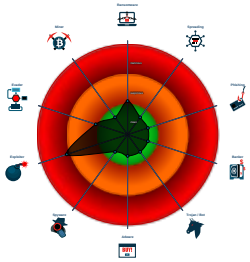
Hidden Macro 4.0

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

Signatures

- Antivirus / Scanner detection for sub…
- Multi AV Scanner detection for subm…
- Yara detected hidden Macro 4.0 in E…
- Document contains embedded VBA …
- Yara signature match

Classification



Process Tree

- **System is w10x64**
- EXCEL.EXE (PID: 5432 cmdline: 'C:\Program Files (x86)\Microsoft Office\Office16\EXCEL.EXE' /automation -Embedding MD5: 5D6638F2C8F8571C593999C58866007E)
- **cleanup**

Malware Configuration

No configs have been found

Yara Overview

Initial Sample

Source	Rule	Description	Author	Strings
oBfsC4t10n2.xls	SUSP_Excel4Macro_AutoOpen	Detects Excel4 macro use with auto open / close	John Lambert @JohnLaTwC	• 0x0:$header_docf: D0 CF 11 E0 • 0xcbcaa:$s1: Excel • 0xccd0a:$s1: Excel • 0x321f:$Auto_Open: 18 00 17 00 20 00 00 01 07 00 00 00 00 00 00 00 00 01 3A
oBfsC4t10n2.xls	JoeSecurity_HiddenMacro	Yara detected hidden Macro 4.0 in Excel	Joe Security	

Sigma Overview

No Sigma rule has matched

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Jbx Signature Overview

Click to jump to signature section

AV Detection:



Antivirus / Scanner detection for submitted sample

Multi AV Scanner detection for submitted file

HIPS / PFW / Operating System Protection Evasion:

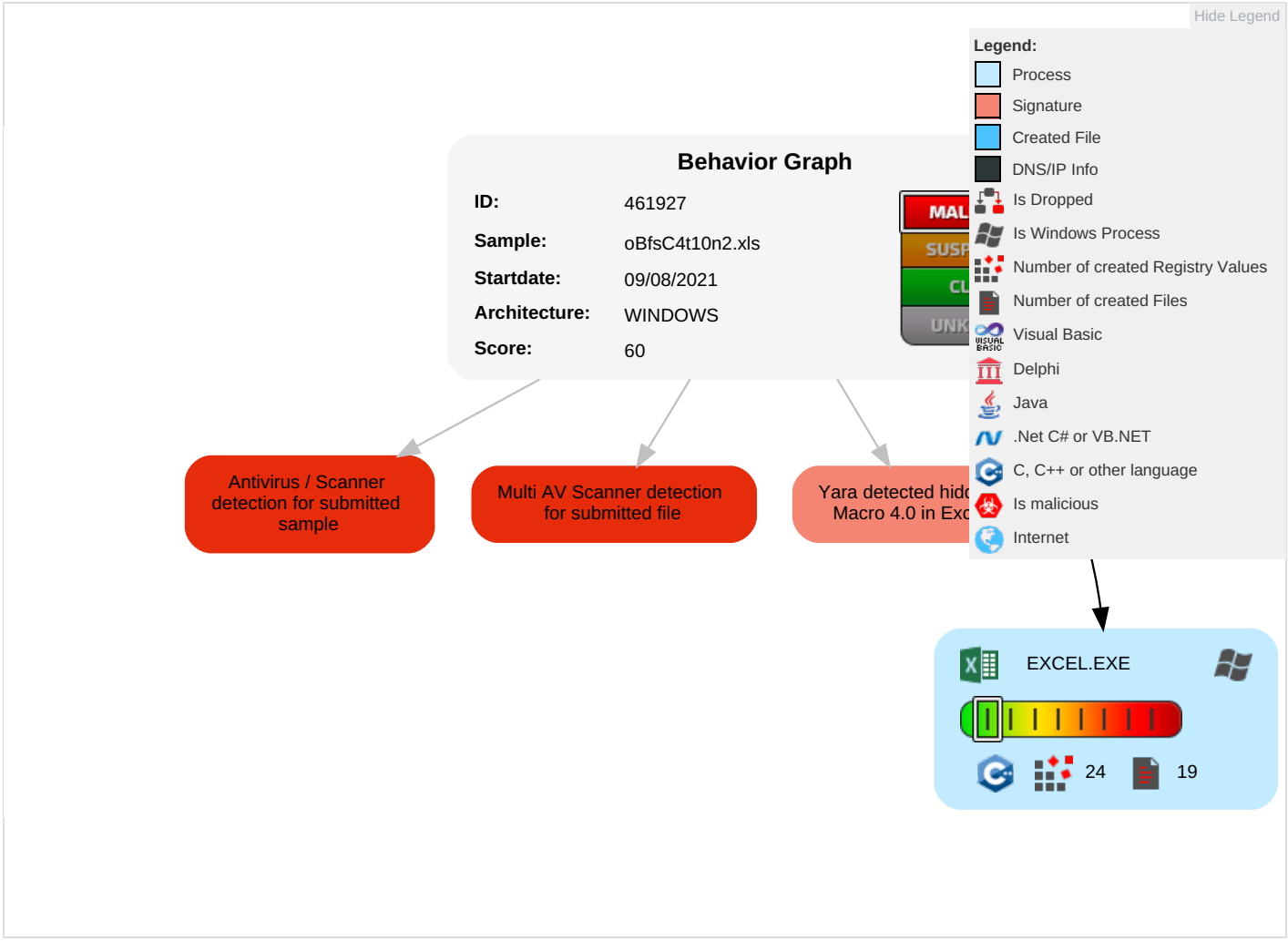


Yara detected hidden Macro 4.0 in Excel

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	Scripting 1	Path Interception	Path Interception	Masquerading 1	OS Credential Dumping	File and Directory Discovery 1	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
Default Accounts	Scheduled Task/Job	Boot or Logon Initialization Scripts	Boot or Logon Initialization Scripts	Scripting 1	LSASS Memory	System Information Discovery 1	Remote Desktop Protocol	Data from Removable Media	Exfiltration Over Bluetooth	Junk Data	Exploit SS7 to Redirect Phone Calls/SMS	Remotely Wipe Data Without Authorization	Device Lockout

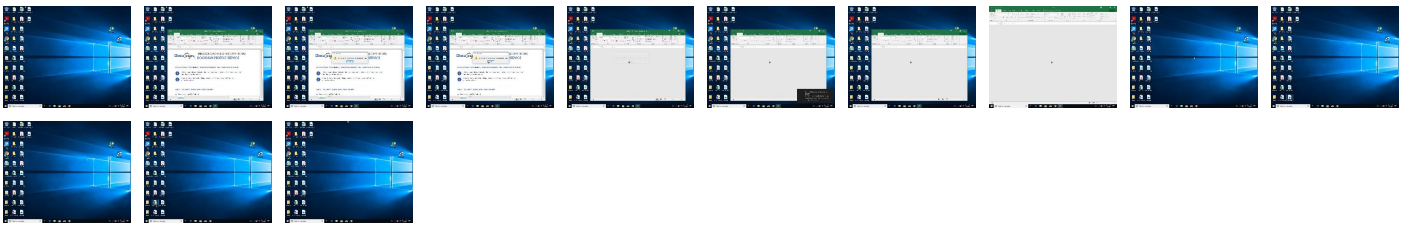
Behavior Graph



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
oBfsC4t10n2.xls	63%	Virustotal		Browse
oBfsC4t10n2.xls	47%	Metadefender		Browse
oBfsC4t10n2.xls	69%	ReversingLabs	Document-Excel.Downloader.EncDoc	
oBfsC4t10n2.xls	100%	Avira	XF/Agent.B	

Dropped Files

No Antivirus matches

Unpacked PE Files

No Antivirus matches

Domains

No Antivirus matches

URLs

Source	Detection	Scanner	Label	Link
http://https://roaming.edog.	0%	Avira URL Cloud	safe	
http://https://cdn.entity.	0%	URL Reputation	safe	
http://https://powerlift.acompli.net	0%	URL Reputation	safe	
http://https://rpsticket.partnerservices.getmicrosoftkey.com	0%	URL Reputation	safe	
http://https://cortana.ai	0%	URL Reputation	safe	
http://https://api.aadrm.com/	0%	URL Reputation	safe	
http://https://ofcrecsvcapi-int.azurewebsites.net/	0%	Virustotal		Browse
http://https://ofcrecsvcapi-int.azurewebsites.net/	0%	Avira URL Cloud	safe	
http://https://res.getmicrosoftkey.com/api/redemptionevents	0%	URL Reputation	safe	
http://https://powerlift-frontdesk.acompli.net	0%	URL Reputation	safe	
http://https://officeci.azurewebsites.net/api/	0%	Virustotal		Browse
http://https://officeci.azurewebsites.net/api/	0%	Avira URL Cloud	safe	
http://https://store.office.cn/addinstemplate	0%	URL Reputation	safe	
http://https://store.officeppe.com/addinstemplate	0%	URL Reputation	safe	
http://https://dev0-api.acompli.net/autodetect	0%	URL Reputation	safe	
http://https://www.odwebp.svc.ms	0%	URL Reputation	safe	
http://https://dataservice.o365filtering.com/	0%	URL Reputation	safe	
http://https://officesetup.getmicrosoftkey.com	0%	URL Reputation	safe	
http://https://prod-global-autodetect.acompli.net/autodetect	0%	URL Reputation	safe	
http://https://ncus.contentsync.	0%	URL Reputation	safe	
http://https://apis.live.net/v5.0/	0%	URL Reputation	safe	
http://https://wus2.contentsync.	0%	URL Reputation	safe	
http://https://asgsmsproxyapi.azurewebsites.net/	0%	Avira URL Cloud	safe	
http://https://dataservice.o365filtering.com/PolicySync/PolicySync.svc/SyncFile	0%	URL Reputation	safe	
http://https://ncus.pagecontentsync.	0%	URL Reputation	safe	
http://https://skyapi.live.net/Activity/	0%	URL Reputation	safe	
http://https://dataservice.o365filtering.com	0%	URL Reputation	safe	
http://https://api.cortana.ai	0%	URL Reputation	safe	
http://https://ovisualuiapp.azurewebsites.net/pbiagave/	0%	Avira URL Cloud	safe	
http://https://directory.services.	0%	URL Reputation	safe	
http://https://staging.cortana.ai	0%	URL Reputation	safe	

Domains and IPs

Contacted Domains

No contacted domains info

URLs from Memory and Binaries

Contacted IPs

No contacted IP infos

General Information

Joe Sandbox Version:	33.0.0 White Diamond
Analysis ID:	461927
Start date:	09.08.2021
Start time:	18:53:49
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 4m 20s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	oBfsC4t10n2.xls
Cookbook file name:	defaultwindowsofficecookbook.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

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Run name:	Potential for more IOCs and behavior
Number of analysed new started processes analysed:	25
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.expl.winXLS@1/1@0/0
Cookbook Comments:	• Adjust boot time • Enable AMSI • Found application associated with file extension: .xls • Found Word or Excel or PowerPoint or XPS Viewer • Attach to Office via COM • Scroll down • Close Viewer
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

C:\Users\user\AppData\Local\Microsoft\Office\16.0\WebServiceCache\AllUsers\officeclient.microsoft.com\5A9E0E51-5E4D-4CBE-BF29-7CE08F095393	
Process:	C:\Program Files (x86)\Microsoft Office\Office16\EXCEL.EXE
File Type:	XML 1.0 document, UTF-8 Unicode text, with very long lines, with CRLF line terminators
Category:	dropped

C:\Users\user\AppData\Local\Microsoft\Office\16.0\WebServiceCache\AllUsers\officeclient.microsoft.com\5A9E0E51-5E4D-4CBE-BF29-7CE08F095393	
Size (bytes):	135913
Entropy (8bit):	5.362418168528083
Encrypted:	false
SSDEEP:	1536:NcQIKNveBTA3gBwlnQ9DQW+z2Y34ZliKWXboOidXqE6LWME9:4yQ9DQW+zaX31
MD5:	15C6A0DB4235A300C26328DD184D98CC
SHA1:	E301DCBF618924DB33A445FA5592B8E4F70946C8
SHA-256:	E6A05C3BCAFA4ADD237BAD363CEE9AF978B079BED3CE11537A6C79EEAA192E12
SHA-512:	815B9FDF932462601DB89C7ECC6B8C856FAD2BBB61FE11FC1EBC40E07ABCFA4F8CE71C8F2CC596691AA71E2A053A2D9DD05D7D08090DBB77146996A83492F FB
Malicious:	false
Reputation:	low
Preview:	<?xml version="1.0" encoding="utf-8"?>..<o:OfficeConfig xmlns:o="urn:schemas-microsoft-com:office:office">.. <o:services o:GenerationTime="2021-08-09T16:54:50">.. Build: 16.0.14404.30525-->.. <o:default>.. <o:ticket o:headerName="Authorization" o:headerValue="{}" />.. </o:default>.. <o:service o:name="Research">.. <o:u rl>https://rr.office.microsoft.com/research/query.asmx</o:url>.. </o:service>.. <o:service o:name="ORedir">.. <o:url>https://o15.officeredir.microsoft.com/r</o:url>.. </o:service>.. <o:service o:name="ORedirSSL">.. <o:url>https://o15.officeredir.microsoft.com/r</o:url>.. </o:service>.. <o:service o:name="ClViewClientHelpId">.. <o:url>https://[MAX.BaseHost]/client/results</o:url>.. </o:service>.. <o:service o:name="ClViewClientHome">.. <o:url>https://[MAX.BaseHost]/client/results</o:url>.. </o:service>.. <o:service o:name="ClViewClientTemplate">.. <o:url>https://ocsa.office.microsoft.com/client/15/help/template</o:url>.. </o:service>.. <o:

Static File Info

General

File type:	Composite Document File V2 Document, Little Endian, Os: Windows, Version 10.0, Code page: 1252, Author: 0xdf, Last Saved By: 0xdf, Name of Creating Ap plication: Microsoft Excel, Create Time/Date: Mon Mar 23 14:19:10 2020, Last Saved Time/Date: Sat Apr 25 19:43:56 2020, Security: 0
Entropy (8bit):	5.658051669585681
TrID:	• Microsoft Excel sheet (30009/1) 47.99% • Microsoft Excel sheet (alternate) (24509/1) 39.20% • Generic OLE2 / Multistream Compound File (8008/1) 12.81%
File name:	oBfsC4t10n2.xls
File size:	849920
MD5:	0c09fbdf98f0a6144a42fde00fe21504
SHA1:	bb4a594ecf90ed6b9e408c404b08620500fb4c02
SHA256:	1f156f86d45e28dac74015051546305497adb86b4e46bb7 d9a84ccf5e25a12f4
SHA512:	e07776cc23b1a9629e760173e7cbf47bfc56f87c1f74f51a d59299dad3e01387ed355bed4cdcfcc269cb55ad735789 6b3e1d57a7cdea0c6d84ecec09ca79e8d4
SSDEEP:	12288:53wXyuDwsryfLlYUFZWyehWg6rj4P8pJNjavyP: 5Axr2YUWyXvzD
File Content Preview:	.....>.....z.....m...n... o...p...q...r...s...t...u...v...w...x...y..... ....

File Icon



Icon Hash:	74ecd4c6c3c6c4d8

Static OLE Info

General

Document Type:	OLE
Number of OLE Files:	1

OLE File "oBfsC4t10n2.xls"

Indicators

Has Summary Info:	True
Application Name:	Microsoft Excel
Encrypted Document:	False

Indicators

Contains Word Document Stream:	False
Contains Workbook/Book Stream:	True
Contains PowerPoint Document Stream:	False
Contains Visio Document Stream:	False
Contains ObjectPool Stream:	
Flash Objects Count:	
Contains VBA Macros:	True

Summary

Code Page:	1252
Author:	0xdf
Last Saved By:	0xdf
Create Time:	2020-03-23 14:19:10
Last Saved Time:	2020-04-25 18:43:56
Creating Application:	Microsoft Excel
Security:	0

Document Summary

Document Code Page:	1252
Thumbnail Scaling Desired:	False
Company:	
Contains Dirty Links:	False
Shared Document:	False
Changed Hyperlinks:	False
Application Version:	1048576

Streams

Network Behavior

Network Port Distribution

UDP Packets

Code Manipulations

Statistics

System Behavior

Analysis Process: EXCEL.EXE PID: 5432 Parent PID: 792

General

Start time:	18:54:47
Start date:	09/08/2021
Path:	C:\Program Files (x86)\Microsoft Office\Office16\EXCEL.EXE
Wow64 process (32bit):	true

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Commandline:	'C:\Program Files (x86)\Microsoft Office\Office16\EXCEL.EXE' /automation -Embedding
Imagebase:	0xa20000
File size:	27110184 bytes
MD5 hash:	5D6638F2C8F8571C593999C58866007E
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities Show Windows behavior

Registry Activities Show Windows behavior

Key Created

Key Value Created

Disassembly

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