



ID: 320589 Sample Name:

sviluppo_economico_19__98.xls

Cookbook:

defaultwindowsofficecookbook.jbs

Time: 15:33:33 Date: 19/11/2020

Version: 31.0.0 Red Diamond

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Analysis Report sviluppo_economico_19__98.xls

Overview

General Information



Detection



Signatures



Classification



Startup

- System is w7x64
- EXCEL.EXE (PID: 2500 cmdline: 'C:\Program Files\Microsoft Office\Office\Office\1\EXCEL.EXE' /automation -Embedding MD5: 5FB0A0F93382ECD19F5F499A5CAA59F0)
- cleanup

Malware Configuration

No configs have been found

Yara Overview

Initial Sample

Source	Rule	Description	Author	Strings
sviluppo_economico_1998.xls	JoeSecurity_PasswordProt	Yara detected	Joe Security	
	ectedXlsWithEmbeddedMa	password		
	cros	protected xls with		
		embedded macros		

Sigma Overview

No Sigma rule has matched

Signature Overview

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- AV Detection
- System Summary
- Hooking and other Techniques for Hiding and Protection
- HIPS / PFW / Operating System Protection Evasion



AV Detection:



Multi AV Scanner detection for submitted file

HIPS / PFW / Operating System Protection Evasion:



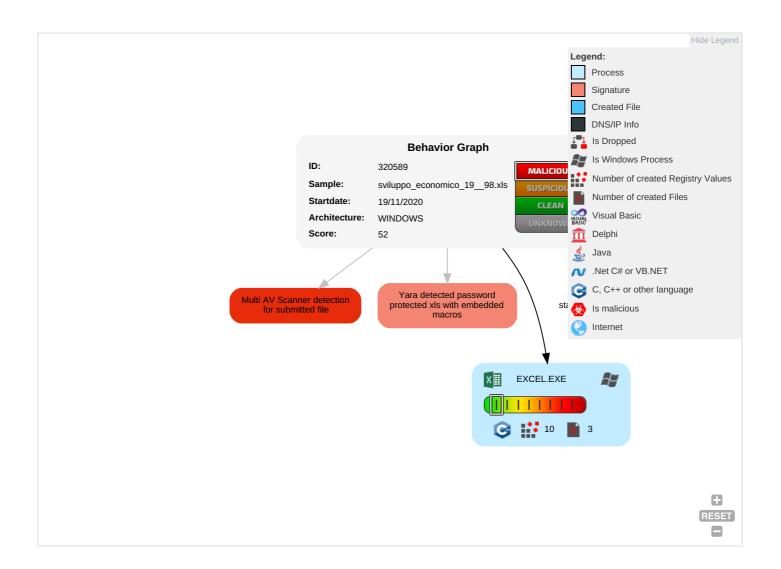
Yara detected password protected xls with embedded macros

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
Accounts	Windows Management Instrumentation	Path Interception	Path Interception	Direct Volume Access	OS Credential Dumping	File and Directory Discovery	Remote Services	Data from Local System	Exfiltration Over Other Network Medium	Data Obfuscation	Eavesdrop on Insecure Network Communication	Remotely Track Device Without Authorization	Partition
Default Accounts		Boot or Logon Initialization Scripts	Boot or Logon Initialization Scripts	Rootkit	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

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Screenshots

Thumbnails

This section contains all screenshots as thumbnails, including those not shown in the slideshow.



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Antivirus, Machine Learning and Genetic Malware Detection

Initial Sample

Source	Detection	Scanner	Label	Link
sviluppo_economico_1998.xls	8%	Virustotal		Browse
sviluppo_economico_1998.xls	10%	ReversingLabs		

Dropped Files

No Antivirus matches

Unpacked PE Files

No Antivirus matches

Domains

No Antivirus matches

URLs

No Antivirus matches

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Domains and IPs

Contacted Domains

No contacted domains info

Contacted IPs

No contacted IP infos

General Information

Joe Sandbox Version:	31.0.0 Red Diamond
Analysis ID:	320589
Start date:	19.11.2020
Start time:	15:33:33
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 3m 44s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	sviluppo_economico_1998.xls
Cookbook file name:	defaultwindowsofficecookbook.jbs
Analysis system description:	Windows 7 x64 SP1 with Office 2010 SP2 (IE 11, FF52, Chrome 57, Adobe Reader DC 15, Flash 25.0.0.127, Java 8 Update 121, .NET 4.6.2)
Number of analysed new started processes analysed:	2
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:	EGA enabledHDC enabledAMSI enabled
Analysis Mode:	default
Analysis stop reason:	Timeout
Detection:	MAL
Classification:	mal52.expl.winXLS@1/0@0/0
Cookbook Comments:	Adjust boot time Enable AMSI Found application associated with file extension: .xls Changed system and user locale, location and keyboard layout to Italian - Italy Found Word or Excel or PowerPoint or XPS Viewer Attach to Office via COM Scroll down Close Viewer
Warnings:	Show All • Exclude process from analysis (whitelisted): dllhost.exe

Simulations

Behavior and APIs

No simulations

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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:	Composite Document File V2 Document, Little Endian, Os: Windows, Version 10.0, Code page: 1252, Author: OXYWbyFNqEDTXZRqGxi, Last Saved By: administra tor, Name of Creating Application: Microsoft Excel, Create Time/Date: Wed Nov 18 22:00:31 2020, Last Saved Time/Date: Wed Nov 18 22:26:33 2020, Security: 1
Entropy (8bit):	7.663256298038157
TrID:	 Microsoft Excel sheet (30009/1) 78.94% Generic OLE2 / Multistream Compound File (8008/1) 21.06%
File name:	sviluppo_economico_1998.xls
File size:	423424
MD5:	f85cc34cca018369113e5ea6aff1eae4
SHA1:	62cb04d273f22c440aca13dc344bd05ec7fb9b79
SHA256:	f93a962db6a8cfaf0513c5d2a36cf61b863c52f32ca7ab85 6cfe0b024001c9f3
SHA512:	434a43f2b2870596c2384fe678b24d4e2335d0c2bfd9826 c23eba04d552e3791db3fa83c7ca1a574d6209ec247e00 63cbc354fa3ff68029d9456d23bbb26cd98
SSDEEP:	6144:s9CdPZDiqSz9tpBWL5A4hXF+vu7lTcDHEHUED agk6xrGgvmHfoiNzaU5AU/cp/:fdhsz7p0L++F+vfDkxagk ArGBHflNu/
File Content Preview:	456789

File Icon

Icon Hash:	e4eea286a4b4bcb4

Static OLE Info

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General	
Document Type:	OLE
Number of OLE Files:	1

OLE File "sviluppo_economico_19__98.xls"

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

Summary	
Code Page:	1252
Author:	OXYWbyFNqEDTXZRqGxi
Last Saved By:	administrator
Create Time:	2020-11-18 22:00:31
Last Saved Time:	2020-11-18 22:26:33
Creating Application:	Microsoft Excel
Security:	1

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

Stream Path: \x5DocumentSummaryInformation, File Type: data, Stream Size: 4096

General	
Stream Path:	\x5DocumentSummaryInformation
File Type:	data
Stream Size:	4096
Entropy:	0.64107045361
Base64 Encoded:	False
Data ASCII:	
Data Raw:	fe ff 00 00 0a 00 02 00 00 00 00 00 00 00 00 00 00 00

Stream Path: \x5SummaryInformation, File Type: data, Stream Size: 4096

General	
Stream Path:	\x5SummaryInformation
File Type:	data
Stream Size:	4096
Entropy:	0.348694171161
Base64 Encoded:	False
Data ASCII:	Oh+'.0@H d OXYWbyFNqEDT XZRqGxiadministratorMicrosoft Excel.@ c;@i

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General	
Data Raw:	fe ff 00 00 0a 00 02 00 00 00 00 00 00 00 00 00 00 00

Stream Path: Workbook, File Type: Applesoft BASIC program data, first line number 16, Stream Size: 410329

General	
Stream Path:	Workbook
File Type:	Applesoft BASIC program data, first line number 16
Stream Size:	410329
Entropy:	7.75910354304
Base64 Encoded:	True
Data ASCII:	ZO/
Data Raw:	$09\ 08\ 10\ 00\ 00\ 60\ 50\ 5a\ 4f\ cd\ 07\ c9\ 00\ 02\ 00\ 60\ 80\ 00\ 02\ f00\ c8\ 00\ 01\ 00\ 04\ 00\ 02\ 00\ 00$ $00\ 00\ 00\ 00\ 00\ 00\ 00\ 00\ 00\ 00$

Network Behavior

No network behavior found

Code Manipulations

Statistics

System Behavior

Analysis Process: EXCEL.EXE PID: 2500 Parent PID: 584

General

Start time:	15:34:40
Start date:	19/11/2020
Path:	C:\Program Files\Microsoft Office\Office14\EXCEL.EXE
Wow64 process (32bit):	false
Commandline:	'C:\Program Files\Microsoft Office\Office14\EXCEL.EXE' /automation -Embedding
Imagebase:	0x13f9a0000
File size:	27641504 bytes
MD5 hash:	5FB0A0F93382ECD19F5F499A5CAA59F0
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

						Source	
File Path	Access	Attributes	Options	Completion	Count	Address	Symbol

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Old File Path					New File Path					Completion		Source Address	Symbol
File Path							Offset	Length		Completion	Count	Source Address	Symbol
Registry Activities													
Key Path									Comp	oletion	Count	Source Address	Symbol
Key Path			Name		Туре	Data			Comp	oletion	Count	Source Address	Symbol
Key Path	Name	Туре		Old Da	ta		New Data		Comp	oletion	Count	Source Address	Symbol
,	1.134.115	.,,,,,		3.3 50					23111		Sant		2,1110

Disassembly

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