



**ID:** 528761

**Sample Name:** sample2.xls.vir

**Cookbook:**

defaultwindowsofficecookbook.jbs

**Time:** 18:41:48

**Date:** 25/11/2021

**Version:** 34.0.0 Boulder Opal

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# Windows Analysis Report sample2.xls.vir

## Overview

### General Information

Sample Name:	sample2.xls.vir (renamed file extension from vir to xls)
Analysis ID:	528761
MD5:	75c10281f9cae79..
SHA1:	7bd8c6de6d714ff..
SHA256:	53a57594efe3312..
Tags:	vir xlsx
Infos:	
Most interesting Screenshot:	

### Detection



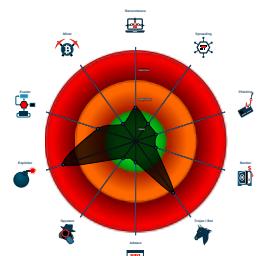
#### Hidden Macro 4.0

Score:	88
Range:	0 - 100
Whitelisted:	false
Confidence:	100%

### Signatures

- Office document tries to convince vi...
- Multi AV Scanner detection for subm...
- Sigma detected: Regsvr32 Command...
- Sigma detected: Microsoft Office Pr...
- Document exploit detected (process...
- Document exploit detected (UrlDown...
- Yara detected hidden Macro 4.0 in E...
- Performs DNS queries to domains w...
- Office document connecting to susp...
- Potential document exploit detected...
- Yara signature match
- Found a hidden Excel 4.0 Macro she...

### Classification



## Process Tree

- System is w7x64
- EXCEL.EXE (PID: 2644 cmdline: "C:\Program Files\Microsoft Office\Office14\EXCEL.EXE" /automation -Embedding MD5: D53B85E21886D2AF9815C377537BCAC3)
  - regsvr32.exe (PID: 2256 cmdline: "C:\Windows\System32\regsvr32.exe" C:\Datop\test.test MD5: 59BCE9F07985F8A4204F4D6554CFF708)
  - regsvr32.exe (PID: 2568 cmdline: "C:\Windows\System32\regsvr32.exe" C:\Datop\test1.test MD5: 59BCE9F07985F8A4204F4D6554CFF708)
  - regsvr32.exe (PID: 3000 cmdline: "C:\Windows\System32\regsvr32.exe" C:\Datop\test2.test MD5: 59BCE9F07985F8A4204F4D6554CFF708)
- cleanup

## Malware Configuration

No configs have been found

## Yara Overview

### Initial Sample

Source	Rule	Description	Author	Strings
sample2.xls.xls	SUSP_Excel4Macro_Auto Open	Detects Excel4 macro use with auto open / close	John Lambert @JohnLaTwC	<ul style="list-style-type: none"><li>0x0:\$header_docf: D0 CF 11 E0</li><li>0x124c8:\$s1: Excel</li><li>0x1358c:\$s1: Excel</li><li>0x34b5:\$Auto_Open: 18 00 17 00 20 00 00 01 07 00 0 0 00 00 00 00 00 01 3A</li></ul>
sample2.xls.xls	JoeSecurity_XlsWithMacro 4	Yara detected Xls With Macro 4.0	Joe Security	
sample2.xls.xls	JoeSecurity_HiddenMacro	Yara detected hidden Macro 4.0 in Excel	Joe Security	

### Dropped Files

Source	Rule	Description	Author	Strings

Source	Rule	Description	Author	Strings
C:\Users\user\Desktop\sample2.xls.xls	SUSP_Excel4Macro_AutoOpen	Detects Excel4 macro use with auto open / close	John Lambert @JohnLaTwC	<ul style="list-style-type: none"> <li>• 0x0:\$header_docf: D0 CF 11 E0</li> <li>• 0x124c8:\$s1: Excel</li> <li>• 0x1358c:\$s1: Excel</li> <li>• 0x34b5:\$Auto_Open: 18 00 17 00 20 00 00 01 07 00 0 0 00 00 00 00 00 01 3A</li> </ul>
C:\Users\user\Desktop\sample2.xls.xls	JoeSecurity_XlsWithMacro4	Yara detected Xls With Macro 4.0	Joe Security	
C:\Users\user\Desktop\sample2.xls.xls	JoeSecurity_HiddenMacro	Yara detected hidden Macro 4.0 in Excel	Joe Security	

## Sigma Overview

### System Summary:



Sigma detected: Regsvr32 Command Line Without DLL

Sigma detected: Microsoft Office Product Spawning Windows Shell

## Jbx Signature Overview



Click to jump to signature section

### AV Detection:



Multi AV Scanner detection for submitted file

### Software Vulnerabilities:



Document exploit detected (process start blacklist hit)

Document exploit detected (UrlDownloadToFile)

Potential document exploit detected (performs DNS queries with low reputation score)

### Networking:



Performs DNS queries to domains with low reputation

Office document connecting to suspicious TLD

### System Summary:



Office document tries to convince victim to disable security protection (e.g. to enable ActiveX or Macros)

### HIPS / PFW / Operating System Protection Evasion:



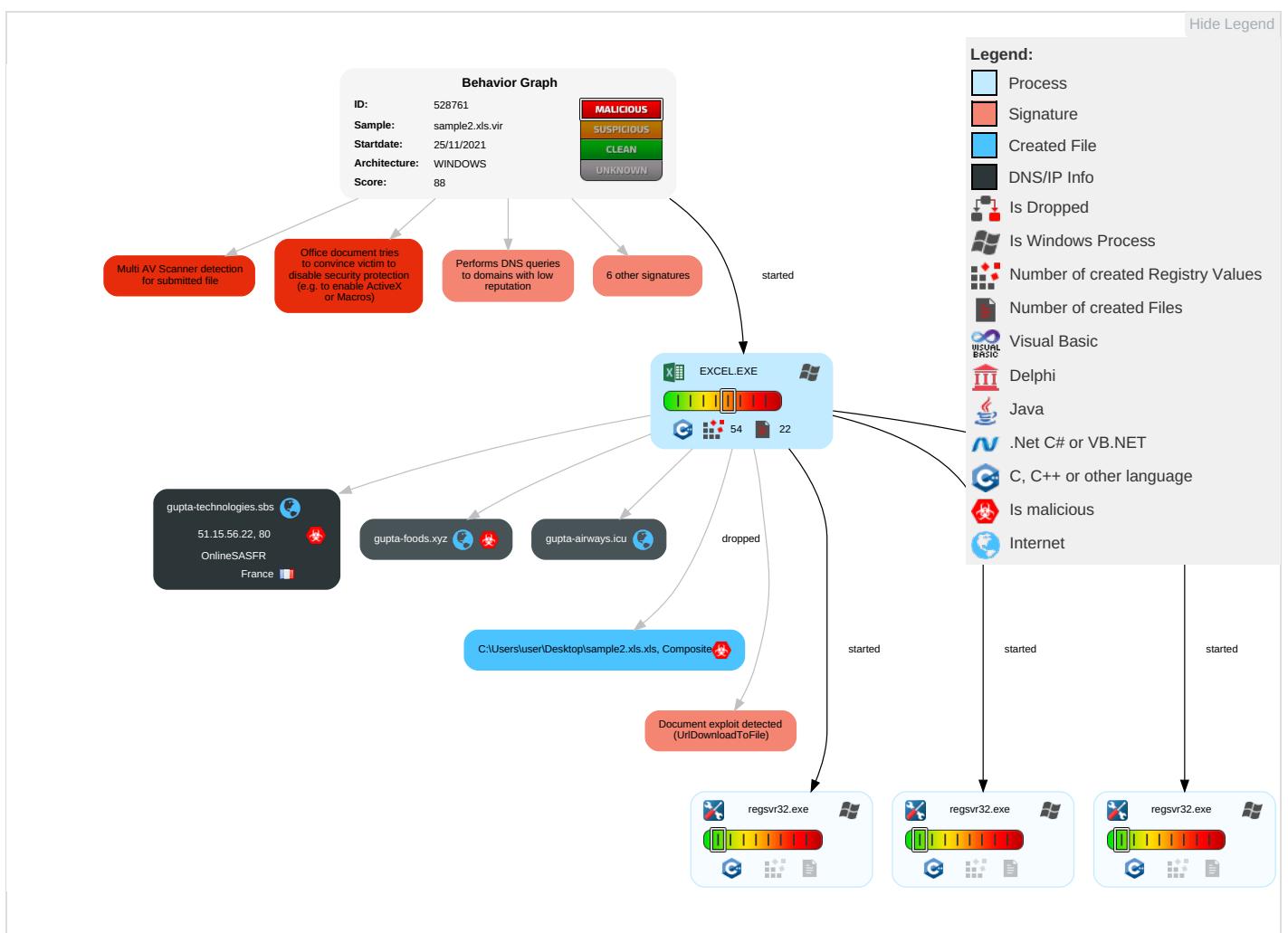
Yara detected hidden Macro 4.0 in Excel

## Mitre Att&ck Matrix

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects	R S E
----------------	-----------	-------------	----------------------	-----------------	-------------------	-----------	------------------	------------	--------------	---------------------	-----------------	-------

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects	R S E
Valid Accounts	Scripting 1	Path Interception	Process Injection 1	Disable or Modify Tools 1	OS Credential Dumping	Virtualization/Sandbox Evasion 1	Remote Services	Data from Local System	Exfiltration Over Other Network Medium	Non-Application Layer Protocol 1	Eavesdrop on Insecure Network Communication	R T V A
Default Accounts	Exploitation for Client Execution 3 2	Boot or Logon Initialization Scripts	Boot or Logon Initialization Scripts	Virtualization/Sandbox Evasion 1	LSASS Memory	File and Directory Discovery 1	Remote Desktop Protocol	Data from Removable Media	Exfiltration Over Bluetooth	Application Layer Protocol 1	Exploit SS7 to Redirect Phone Calls/SMS	R V V A
Domain Accounts	At (Linux)	Logon Script (Windows)	Logon Script (Windows)	Process Injection 1	Security Account Manager	System Information Discovery 2	SMB/Windows Admin Shares	Data from Network Shared Drive	Automated Exfiltration	Steganography	Exploit SS7 to Track Device Location	C D C B
Local Accounts	At (Windows)	Logon Script (Mac)	Logon Script (Mac)	Scripting 1	NTDS	System Network Configuration Discovery	Distributed Component Object Model	Input Capture	Scheduled Transfer	Protocol Impersonation	SIM Card Swap	

## Behavior Graph

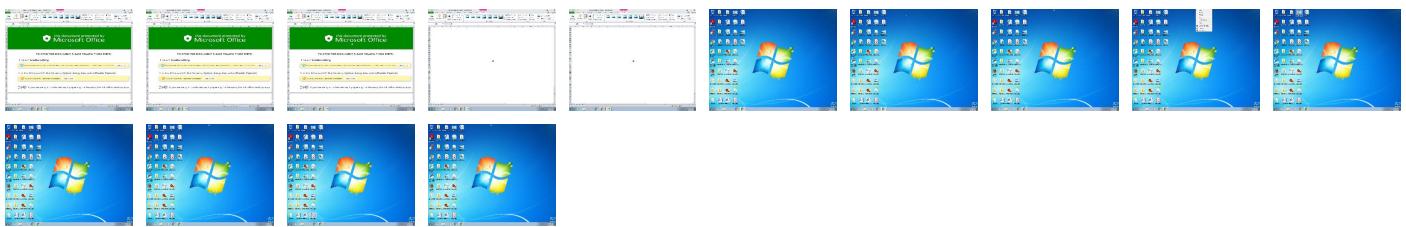


## Screenshots

### 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
sample2.xls.xls	37%	Virustotal		<a href="#">Browse</a>

### Dropped Files

No Antivirus matches

### Unpacked PE Files

No Antivirus matches

### Domains

No Antivirus matches

## URLs

Source	Detection	Scanner	Label	Link
http://www.%s.comPA	0%	URL Reputation	safe	
http://www.icra.org/vocabulary/.	0%	URL Reputation	safe	
http://windowsmedia.com/redir/services.asp?WMPFriendly=true	0%	URL Reputation	safe	
http://servername/isapibackend.dll	0%	Avira URL Cloud	safe	

## Domains and IPs

### Contacted Domains

Name	IP	Active	Malicious	Antivirus Detection	Reputation
gupta-foods.xyz	51.15.56.22	true	true		unknown
gupta-airways.icu	51.15.56.22	true	false		unknown
gupta-technologies.sbs	51.15.56.22	true	false		unknown

### URLs from Memory and Binaries

### Contacted IPs

#### Public

IP	Domain	Country	Flag	ASN	ASN Name	Malicious
51.15.56.22	gupta-foods.xyz	France	FR	12876	OnlineSASFR	true

## General Information

Joe Sandbox Version:	34.0.0 Boulder Opal
Analysis ID:	528761
Start date:	25.11.2021
Start time:	18:41:48
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 7m 20s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	sample2.xls.vir (renamed file extension from vir to xls)
Cookbook file name:	defaultwindowsofficecookbook.jbs
Analysis system description:	Windows 7 x64 SP1 with Office 2010 SP1 (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:	8
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"><li>• HCA enabled</li><li>• EGA enabled</li><li>• HDC enabled</li><li>• AMSI enabled</li></ul>
Analysis Mode:	default
Analysis stop reason:	Timeout
Detection:	MAL
Classification:	mal88.troj.expl.winXLS@7/4@3/1
EGA Information:	Failed
HDC Information:	Failed

HCA Information:	<ul style="list-style-type: none"> <li>Successful, ratio: 100%</li> <li>Number of executed functions: 0</li> <li>Number of non-executed functions: 0</li> </ul>
Cookbook Comments:	<ul style="list-style-type: none"> <li>Adjust boot time</li> <li>Enable AMSI</li> <li>Found Word or Excel or PowerPoint or XPS Viewer</li> <li>Attach to Office via COM</li> <li>Scroll down</li> <li>Close Viewer</li> </ul>
Warnings:	Show All

## Simulations

### Behavior and APIs

Time	Type	Description
18:43:26	API Interceptor	199x Sleep call for process: regsvr32.exe modified

## Joe Sandbox View / Context

### IPs

No context

### Domains

No context

### ASN

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
OnlineSASFR	EzCOXP6oxy.dll	Get hash	malicious	Browse	• 195.154.146.35
	Ikrov40UrZ.dll	Get hash	malicious	Browse	• 195.154.146.35
	C1Q17Dg4RT.dll	Get hash	malicious	Browse	• 195.154.146.35
	MakbLShaqA.dll	Get hash	malicious	Browse	• 195.154.146.35
	MakbLShaqA.dll	Get hash	malicious	Browse	• 195.154.146.35
	tUJXpPwU27.dll	Get hash	malicious	Browse	• 195.154.146.35
	pYebrdRKvR.dll	Get hash	malicious	Browse	• 195.154.146.35
	pPX9DaPVYj.dll	Get hash	malicious	Browse	• 195.154.146.35
	wUKXjlCs5f.dll	Get hash	malicious	Browse	• 195.154.146.35
	cRC6TZG6Wx.dll	Get hash	malicious	Browse	• 195.154.146.35
	qrb6jVwzoe.dll	Get hash	malicious	Browse	• 195.154.146.35
	1711.doc	Get hash	malicious	Browse	• 195.154.146.35
	j9ZfvcmyKN	Get hash	malicious	Browse	• 51.158.220.39
	GQwxmGZFvtg.dll	Get hash	malicious	Browse	• 195.154.146.35
	wNjqkrm8pH.dll	Get hash	malicious	Browse	• 195.154.146.35
	5YO8hZg21O.dll	Get hash	malicious	Browse	• 195.154.146.35
	dUGnMYeP1C.dll	Get hash	malicious	Browse	• 195.154.146.35
	yFAXc9z51V.dll	Get hash	malicious	Browse	• 195.154.146.35
	9fC0as7YLE.dll	Get hash	malicious	Browse	• 195.154.146.35
	FlyE6huzxV.dll	Get hash	malicious	Browse	• 195.154.146.35

### JA3 Fingerprints

No context

### Dropped Files

No context

## Created / dropped Files

C:\Users\user\AppData\Local\Temp\7D1C.tmp

Process:	C:\Program Files\Microsoft Office\Office14\EXCEL.EXE
File Type:	Composite Document File V2 Document, Cannot read section info
Category:	dropped
Size (bytes):	1536
Entropy (8bit):	1.1464700112623651
Encrypted:	false
SSDeep:	3:YmsalTlPlt2N81HRQjlORGt7RQ//W1XR9//3R9//3R9//:rl912N0xs+CFQXCB9Xh9Xh9X
MD5:	72F5C05B7EA8DD6059BF59F50B22DF33
SHA1:	D5AF52E129E15E3A34772806F6C5FBF132E7408E
SHA-256:	1DC0C8D7304C177AD0E74D3D2F1002EB773F4B180685A7DF6BBE75CCC24B0164
SHA-512:	6FF1E2E6B99BD0A4ED7CA8A9E943551BCD73A0BEFCACE6F1B1106E88595C0846C9BB76CA99A33266FFEC2440CF6A440090F803ABBF28B208A6C7BC6310BEB;9E
Malicious:	false
Reputation:	moderate, very likely benign file
Preview:	.....>..... ..... .....

C:\Users\user\AppData\Local\Temp\~DF30EC3661E732423E.TMP

Process:	C:\Program Files\Microsoft Office\Office14\EXCEL.EXE
File Type:	data
Category:	dropped
Size (bytes):	28672
Entropy (8bit):	3.273337417227373
Encrypted:	false
SSDeep:	768:DPdjk3hOdsyIKlgxopeiBNhZFGzE+cL2kdAJJ6Q470:5Nk3hOdsyIKlgxopeiBNhZFGzE+cL2ko
MD5:	D5179EC42D940F87860096C6723AB54D
SHA1:	B382B6F7D9FAE38B8A0D1C13B790B216B85A92C0
SHA-256:	11BD2AD09C3D35E05FE908B1CF17ABC875E95DEBCCCC821204BFDD8AE2A411D
SHA-512:	92559C475C1818BEF833FEE331ED65D0D2A9EB40732BF5B97E5F97DF85DF71F045CCC4E4539765A4DEEC4CB1BDCCBA06BB41158F42D7D0BDABDED66AD5BCA174
Malicious:	false
Reputation:	low
Preview:	..... ..... .....

C:\Users\user\AppData\Local\Temp\~DF6FA4235239FD3AE0.TMP

Process:	C:\Program Files\Microsoft Office\Office14\EXCEL.EXE
File Type:	data
Category:	dropped
Size (bytes):	512
Entropy (8bit):	0.0
Encrypted:	false
SSDeep:	3::
MD5:	BF619EAC0CDF3F68D496EA9344137E8B
SHA1:	5C3EB80066420002BC3DCC7CA4AB6EFAD7ED4AE5
SHA-256:	076A27C79E5ACE2A3D47F9DD2E83E4FF6EA8872B3C2218F66C92B89B55F36560
SHA-512:	DF40D4A774E0B453A5B87C00D6F0EF5D753143454E88EE5F7B607134598294C7905CCBCF94BBC46E474DB6EB44E56A6DBB6D9A1BE9D4FB5D1B5F2D0C6ED34FE
Malicious:	false
Reputation:	high, very likely benign file
Preview:	..... .....

C:\Users\user\Desktop\sample2.xls.xls

Process:	C:\Program Files\Microsoft Office\Office14\EXCEL.EXE
File Type:	Composite Document File V2 Document, Little Endian, Os: MacOS, Version 6.11, Code page: -535, Last Saved By: Microsoft Office User, Name of Creating Application: Microsoft Macintosh Excel, Create Time/Date: Fri Jun 5 19:19:34 2015, Last Saved Time/Date: Sun Nov 21 19:57:52 2021, Security: 0

## Static File Info

## General

File type:	Composite Document File V2 Document, Little Endian, Os: MacOS, Version 6.11, Code page: -535, Last Saved By: Microsoft Office User, Name of Creating Application : Microsoft Macintosh Excel, Create Time/Date: Fri Jun 5 19:19:34 2015, Last Saved Time/Date: Sun Nov 21 19:57:52 2021, Security: 0
Entropy (8bit):	6.340423482922574
TrID:	<ul style="list-style-type: none"> <li>Microsoft Excel sheet (30009/1) 78.94%</li> <li>Generic OLE2 / Multistream Compound File (8008/1) 21.06%</li> </ul>
File name:	sample2.xls.xls
File size:	84481
MD5:	75c10281f9cae799f72d6b949199fd91
SHA1:	7bd8c6de6d714ff5e0b8f450203d24c8dd30495d
SHA256:	53a57594efe3312565fd5415ad3d7066799f831bb685473 7ffaf7fe0119af01
SHA512:	f038bd4f0d0d6108502a761de35d10cb53b7351c18b744k 4c9b247bbf10fdc8962fe516f90c1a05a7583731711cd09 8b46a3667a3e9df79a48d035fc0e1ba49
SSDEEP:	1536:0Nk3hOdSYlKlgxopeiBNhZFGzE+cL2kdAy91vrVm xjIME2Ghd52lZPFu1AOg0+d:wk3hOdSYlKlgxopeiBNh ZFGzE+cL2kd0
File Content Preview:	.....>..... ..... .....

## File Icon



Icon Hash:

e4eea286a4b4bcb4

## Static OLE Info

## General

Document Type:	OLE
Number of OLE Files:	1

## OLE File "sample2.xls.xls"

## Indicators

Has Summary Info:  True

## Indicators

Application Name:	Microsoft Macintosh Excel
Encrypted Document:	False
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:	-535
Author:	
Last Saved By:	Microsoft Office User
Create Time:	2015-06-05 18:19:34
Last Saved Time:	2021-11-21 19:57:52
Creating Application:	Microsoft Macintosh Excel
Security:	0

## Document Summary

Document Code Page:	10000
Thumbnail Scaling Desired:	False
Company:	
Contains Dirty Links:	False
Shared Document:	False
Changed Hyperlinks:	False
Application Version:	1048576

## Streams

## Macro 4.0 Code

## Network Behavior

### Network Port Distribution

## TCP Packets

## UDP Packets

## DNS Queries

Timestamp	Source IP	Dest IP	Trans ID	OP Code	Name	Type	Class
Nov 25, 2021 18:42:42.486798048 CET	192.168.2.22	8.8.8	0x5ee5	Standard query (0)	gupta-foods.xyz	A (IP address)	IN (0x0001)
Nov 25, 2021 18:43:03.592708111 CET	192.168.2.22	8.8.8	0x9dfa	Standard query (0)	gupta-tech nologies.sbs	A (IP address)	IN (0x0001)
Nov 25, 2021 18:43:24.698291063 CET	192.168.2.22	8.8.8	0x88df	Standard query (0)	gupta-airways.icu	A (IP address)	IN (0x0001)

## DNS Answers

Timestamp	Source IP	Dest IP	Trans ID	Reply Code	Name	CName	Address	Type	Class
Nov 25, 2021 18:42:42.525017023 CET	8.8.8	192.168.2.22	0x5ee5	No error (0)	gupta-foods.xyz		51.15.56.22	A (IP address)	IN (0x0001)
Nov 25, 2021 18:43:03.651011944 CET	8.8.8	192.168.2.22	0x9dfa	No error (0)	gupta-tech nologies.sbs		51.15.56.22	A (IP address)	IN (0x0001)

Timestamp	Source IP	Dest IP	Trans ID	Reply Code	Name	CName	Address	Type	Class
Nov 25, 2021 18:43:24.758454084 CET	8.8.8.8	192.168.2.22	0x88df	No error (0)	gupta-airways.icu		51.15.56.22	A (IP address)	IN (0x0001)

## Code Manipulations

## Statistics

### Behavior



Click to jump to process

## System Behavior

### Analysis Process: EXCEL.EXE PID: 2644 Parent PID: 596

#### General

Start time:	18:42:17
Start date:	25/11/2021
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:	0x13ff90000
File size:	28253536 bytes
MD5 hash:	D53B85E21886D2AF9815C377537BCAC3
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

#### File Activities

Show Windows behavior

##### File Created

##### File Deleted

##### File Moved

#### Registry Activities

Show Windows behavior

##### Key Created

##### Key Value Created

##### Key Value Modified

### Analysis Process: regsvr32.exe PID: 2256 Parent PID: 2644

## General

Start time:	18:43:25
Start date:	25/11/2021
Path:	C:\Windows\System32\regsvr32.exe
Wow64 process (32bit):	false
Commandline:	"C:\Windows\System32\regsvr32.exe" C:\Datop\test.test
Imagebase:	0xff590000
File size:	19456 bytes
MD5 hash:	59BCE9F07985F8A4204F4D6554CFF708
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

## File Activities

Show Windows behavior

## Analysis Process: regsvr32.exe PID: 2568 Parent PID: 2644

### General

Start time:	18:43:26
Start date:	25/11/2021
Path:	C:\Windows\System32\regsvr32.exe
Wow64 process (32bit):	false
Commandline:	"C:\Windows\System32\regsvr32.exe" C:\Datop\test1.test
Imagebase:	0xff590000
File size:	19456 bytes
MD5 hash:	59BCE9F07985F8A4204F4D6554CFF708
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

## File Activities

Show Windows behavior

## Analysis Process: regsvr32.exe PID: 3000 Parent PID: 2644

### General

Start time:	18:43:26
Start date:	25/11/2021
Path:	C:\Windows\System32\regsvr32.exe
Wow64 process (32bit):	false
Commandline:	"C:\Windows\System32\regsvr32.exe" C:\Datop\test2.test
Imagebase:	0xff590000
File size:	19456 bytes
MD5 hash:	59BCE9F07985F8A4204F4D6554CFF708
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

## File Activities

Show Windows behavior

## Disassembly

## Code Analysis

Copyright Joe Security LLC

Joe Sandbox Cloud Basic 34.0.0 Boulder Opal