Analysis Report OF RAT.Bindshell.EXE

Friday, June 30, 2023 10:41 AM

Static Analysis

- **Hashes**

md5,689FF2C6F94E31ABBA1DDEBF68BE810E

sha1,69B8ECF6B7CDE185DAED76D66100B6A31FD1A668

sha256,248D491F89A10EC3289EC4CA448B19384464329C442BAC395F680C4F3A345C8C

VT Scan

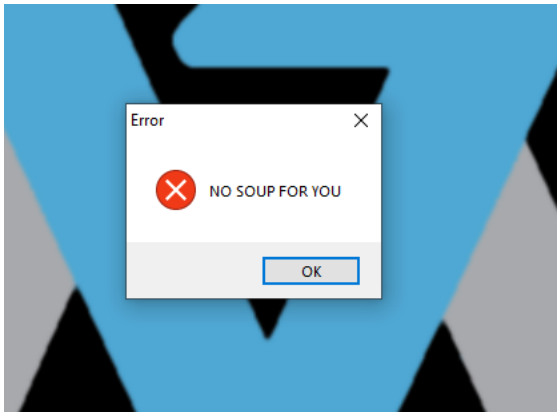
https://www.virustotal.com/gui/file/248d491f89a10ec3289ec4ca448b19384464329c442bac395f680c4f3a345c8c

Floss/Strings output

```
@SSL support is not available. Cannot connect over SSL. Compile with -d:ssl to enable.
@https
@No uri scheme supplied.
InternetOpenW
InternetOpenUrlW
@wininet
@wininet
MultiByteToWideChar
@kernel32
@kernel32
MessageBoxW
@user32
@user32
@[+] what command can I run for you
@[+] online
@NO SOUP FOR YOU
@\mscordll.exe
@Nim httpclient/1.0.6
@/msdcorelib.exe
@AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup
@intrt explr
@http://serv1.ec2-102-95-13-2-ubuntu.local
```

Dynamic Analysis

With no internet connection :

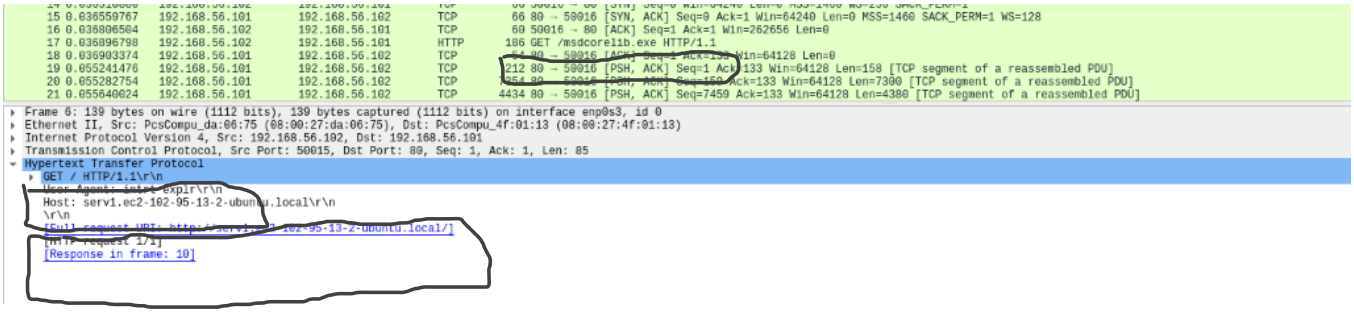


Network Indicators

With Internet connection having fake http server using inetsim

Wireshark reading

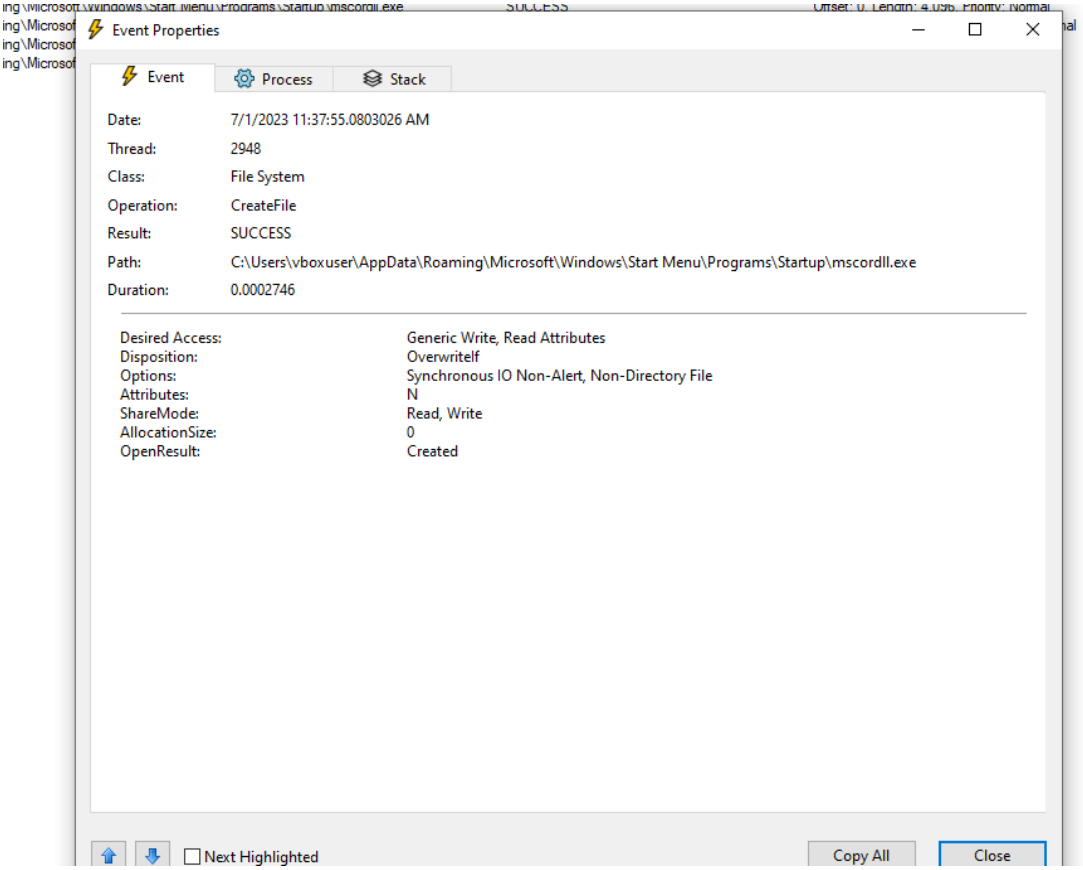
No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	192.168.56.102	192.168.56.101	DNS	94	Standard query 0x7841 A serv1.ec2-102-95-13-2-ubuntu.local
2	0.008175999	192.168.56.101	192.168.56.102	DNS	110	Standard query response 0x7841 A serv1.ec2-102-95-13-2-ubuntu.local A 192.168.56.101
3	0.017272668	192.168.56.102	192.168.56.101	TCP	66	50015 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1
4	0.017308473	192.168.56.101	192.168.56.102	TCP	66	80 → 50015 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1460 SACK_PERM=1 WS=128
5	0.017552543	192.168.56.102	192.168.56.101	TCP	60	50015 → 80 [ACK] Seq=1 Ack=1 Win=262144 Len=0
6	0.017845741	192.168.56.102	192.168.56.101	HTTP	139	GET / HTTP/1.1
7	0.017854241	192.168.56.101	192.168.56.102	TCP	54	80 → 50015 [ACK] Seq=1 Ack=86 Win=64256 Len=0
8	0.030570600	192.168.56.101	192.168.56.102	TCP	204	80 → 50015 [PSH, ACK] Seq=1 Ack=86 Win=64256 Len=150 [TCP segment of a reassembled PDU]
9	0.030919380	192.168.56.102	192.168.56.101	TCP	60	50015 → 80 [ACK] Seq=86 Ack=151 Win=261888 Len=0
10	0.030935067	192.168.56.101	192.168.56.102	HTTP	312	HTTP/1.1 200 OK (text/html)
11	0.031091168	192.168.56.102	192.168.56.101	TCP	60	50015 → 80 [ACK] Seq=86 Ack=409 Win=261632 Len=0
12	0.032957398	192.168.56.101	192.168.56.102	TCP	54	80 → 50015 [FIN, ACK] Seq=409 Ack=86 Win=64256 Len=0
13	0.033185159	192.168.56.102	192.168.56.101	TCP	60	50015 → 80 [ACK] Seq=86 Ack=410 Win=261632 Len=0
14	0.038510898	192.168.56.102	192.168.56.101	TCP	66	50016 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1



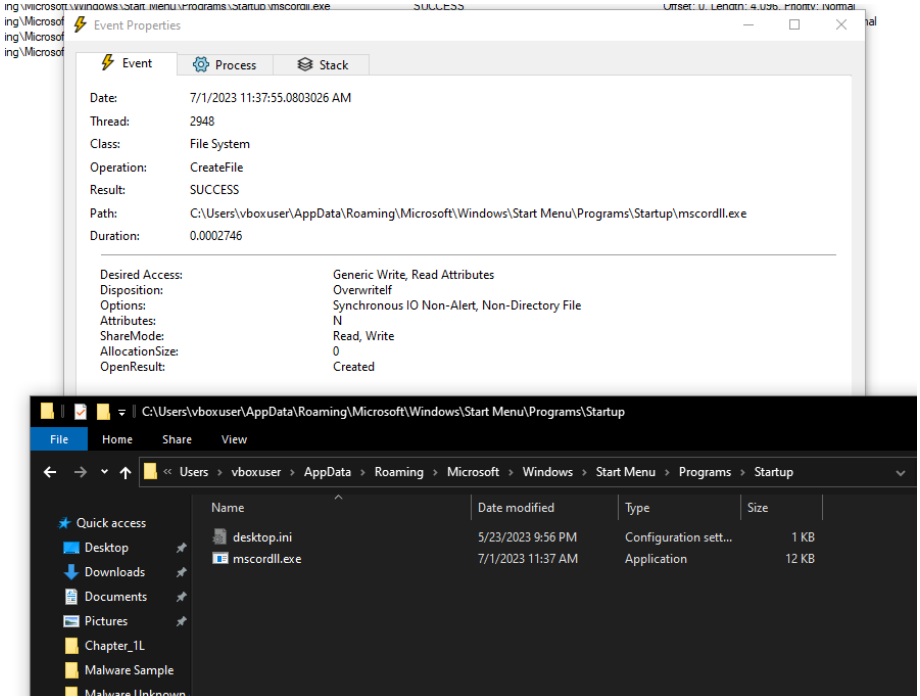
Potential file download msdcorelib.exe

Host Based Indicator

1. Creation of file in Startup folder for persistence

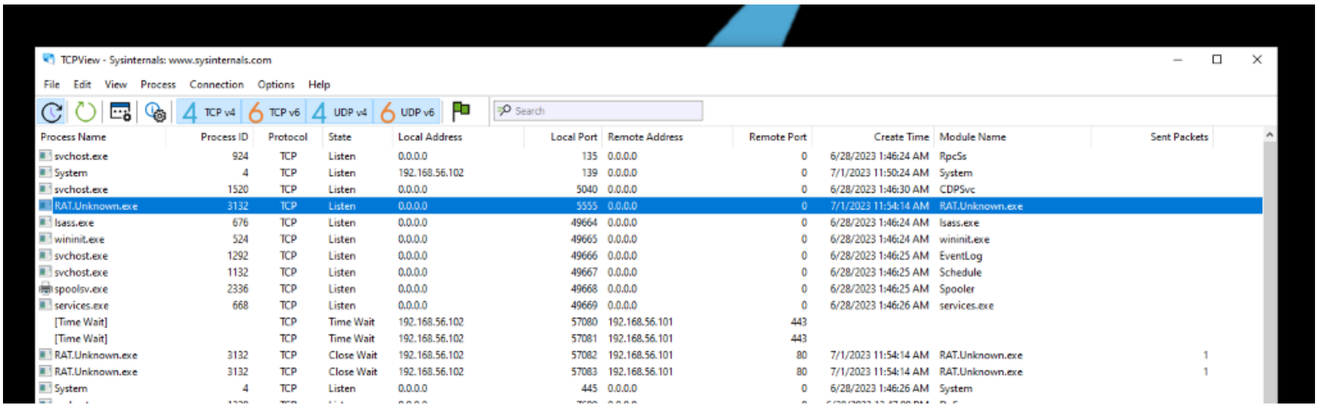


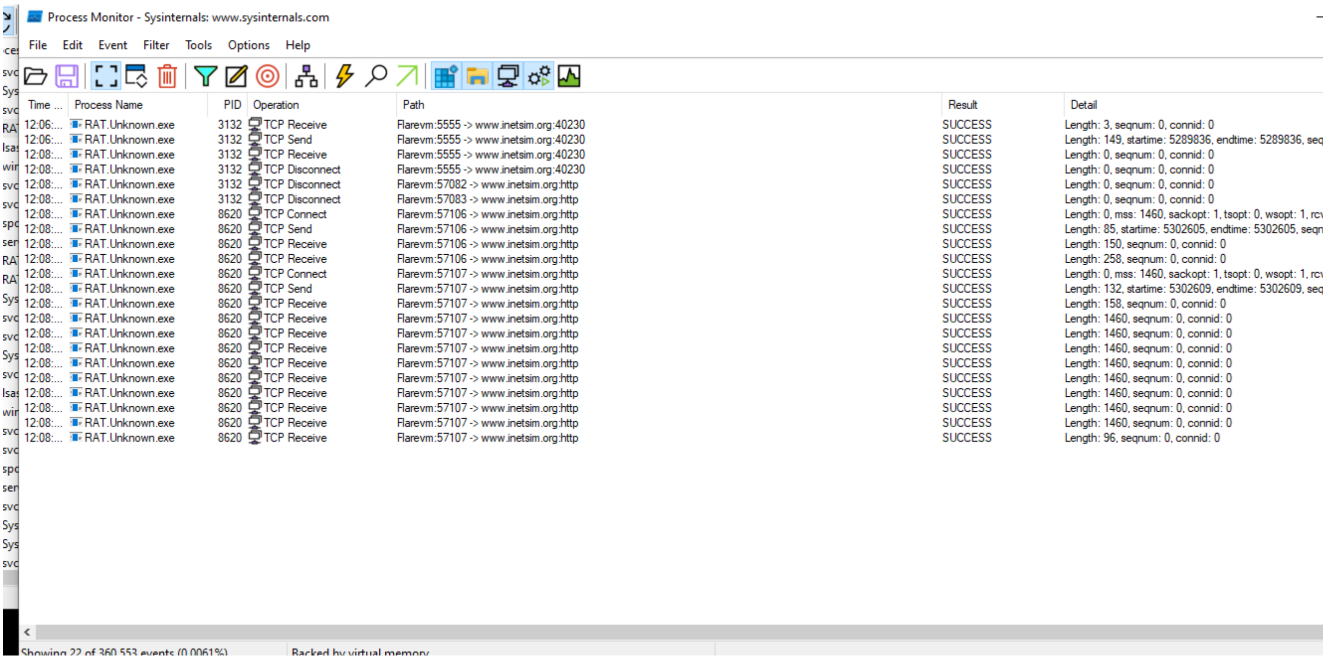
Persistence file Download



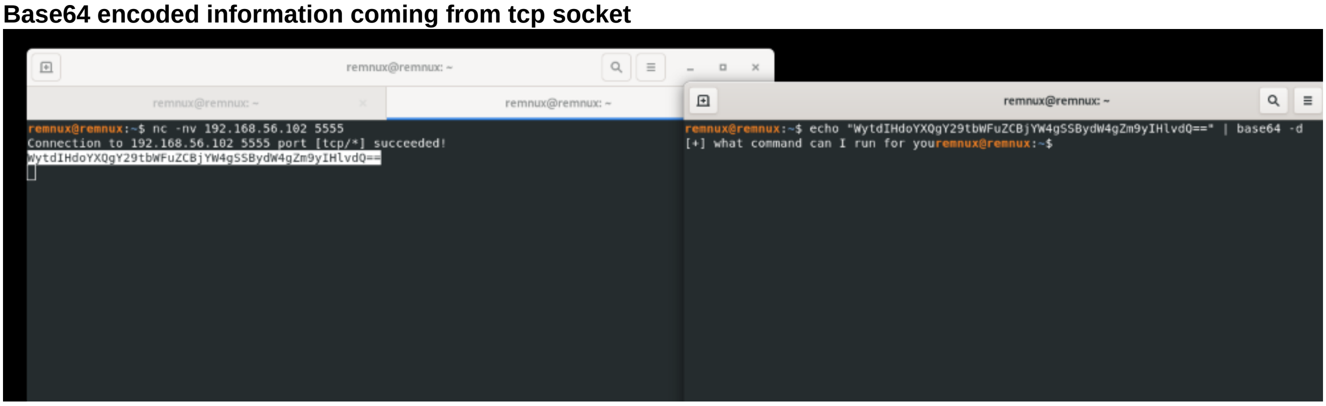
Connection Stablish using TCP on port 5555

The remote address can be anything because its on 0.0.0.0



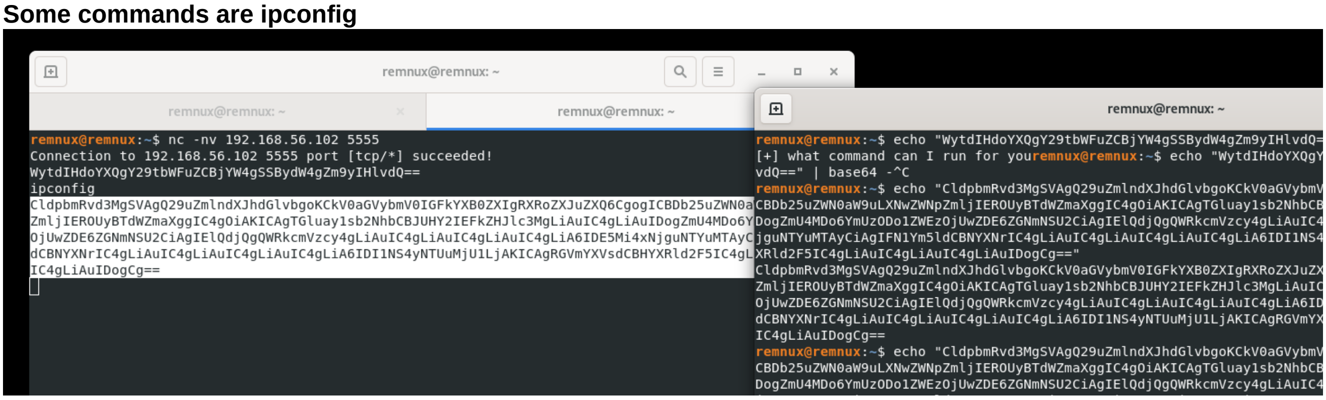


Base64 encoded information coming from tcp socket



The RAT have Command injection utility

Some commands are ipconfig



Whoami

Procmon reading when command is sent from remote host

After analysis of all the process, Indicator and connection we can say this RAT has command injection utility us a potential persistence file

Summary:

The analysis reveals the presence of a Remote Access Trojan (RAT) with command injection capabilities. The RAT is associated w

MD5: 689FF2C6F94E31ABBA1DDEBF68BE810E

SHA1: 69B8ECF6B7CDE185DAED76D66100B6A31FD1A668

SHA256: 248D491F89A10EC3289EC4CA448B19384464329C442BAC395F680C4F3A345C8C

The provided VirusTotal scan link (https://www.virustotal.com/gui/file/248d491f89a10ec3289ec4ca448b19384464329c442bac395f68 of the file.

Static analysis indicates the presence of various API calls and strings related to network operations, such as InternetOpenW, Inter MessageBoxW, and more. Additionally, there are references to file paths and URIs.

Dynamic analysis with an internet connection shows an error message related to the absence of a "soup" and network indicators reveals communication between local IP addresses and a remote IP address, including DNS queries and HTTP requests.

Further analysis suggests the potential download of a file named msdcorelib.exe from a fake HTTP server hosted on serv1.ec2-102

Host-based indicators indicate the creation of a file in the startup folder for persistence.

A TCP connection is established on port 5555, with the remote address being 0.0.0.0. Base64-encoded information is observed cor

The RAT exhibits command injection utility, allowing execution of commands such as ipconfig and whoami.

Process Monitor (Procmon) readings indicate the execution of commands sent from a remote host.

In summary, the analysis suggests the presence of a RAT with command injection capabilities. It establishes a TCP connection, do (msdcorelib.exe), and can execute commands remotely. Further investigation and mitigation steps are recommended to address th