

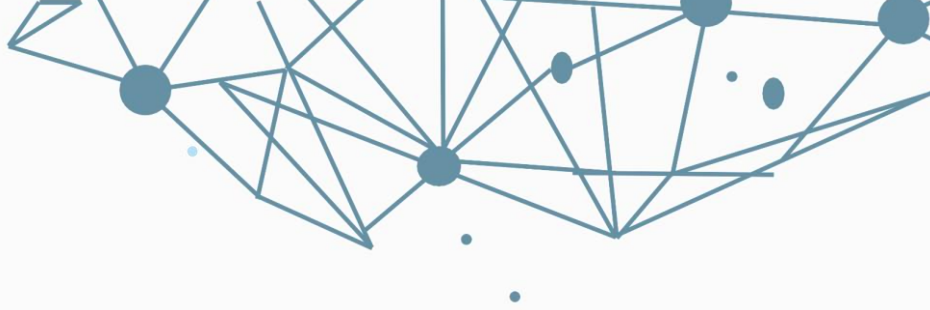
# ECHO

CYBER THREAT INTELLIGENCE



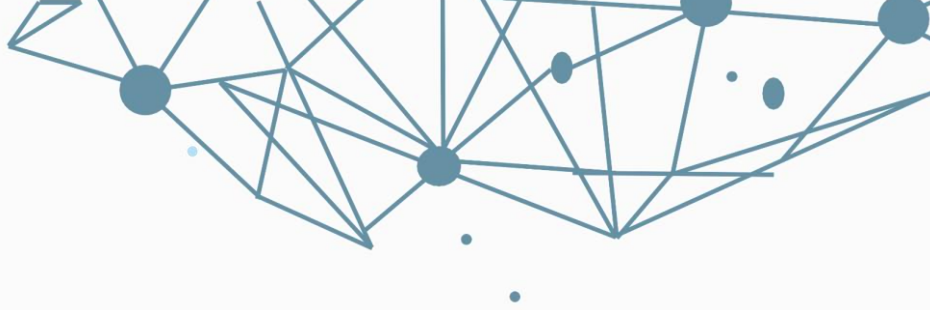
# RHADAMANTHYS

TECHNICAL ANALYSIS REPORT




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## Introduction

This report provides a technical analysis of the Rhadamanthys malware family, which has been active since October 2022. This stealer family demonstrates its effectiveness regardless of the country it targets. To gain insights into this stealer family and its activities, it is recommended to thoroughly read the report. Furthermore, to enhance your system's security, we suggest integrating the rules provided at the end of the report.



Премиум  
Premium

Регистрация: 14.04.2021  
Сообщения: 78  
Реакции: 19  
Гарант сделок: 3

22.09.2022

### Rhadamanthys Stealer -- Stealer Filegrab Loader wallets seed checker ALL IN ONE

The client uses C language to compile without dependency, is compatible with xp-win11, and adaptively supports x86 & x64  
Server back end golang front end panel Centos & Ubuntu one click operation

## Client features;

- Operating system support: WINXP --11, X86 X64 support all functions.
- Does not rely on CRT STD, low requirements for user operation, full memory operation, and better hidden.
- All network communications are encrypted. Each structure has a unique encryption key.
- All retrieved information is transmitted to the server for instant encryption and storage.
- Transmit and store data as promptly as possible each time it is acquired.
- None of these operations will cause new temporary files to appear on the physical disk.
- Reduce the probability of being detected by the EDR AV system, powerful native information acquisition capabilities

**Note:** This program does not support running in the Commonwealth of Independent States, and is identified according to the system language and country

System information:

- Computer name
- Username
- RAM capacity
- CPU cores
- Screen resolution
- Timezone
- GEOIP
- Environment
- Installed Software
- Screenshot

*Şekil 1 Rhamadanthys Stealer for sale*

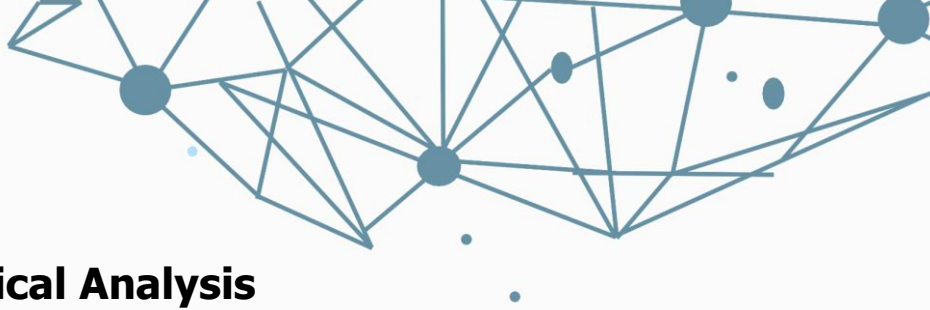
As depicted in Figure 1, the distribution of this particular malware family is observed to be conducted through online forums in the described manner. Notably, it possesses distinctive characteristics that set it apart from other prevalent stealer malware families. These differences include:

- Implementation of Anti-Analysis Techniques
- Network Communication Patterns
- Utilization of APIs at the Kernel Level

Furthermore, the Rhadamanthys family often employs mimicry of legitimate applications. Through Search Engine Optimization (SEO), it strategically positions itself ahead of authentic websites in browser searches, effectively imitating legitimate entities. Consequently, vigilance is recommended when accessing sites during searches for lawful applications to ensure their authenticity.

The examined Rhadamanthys malware, as detailed in this report, has been identified to impersonate the legitimate application **ATTO Disk Benchmark**.

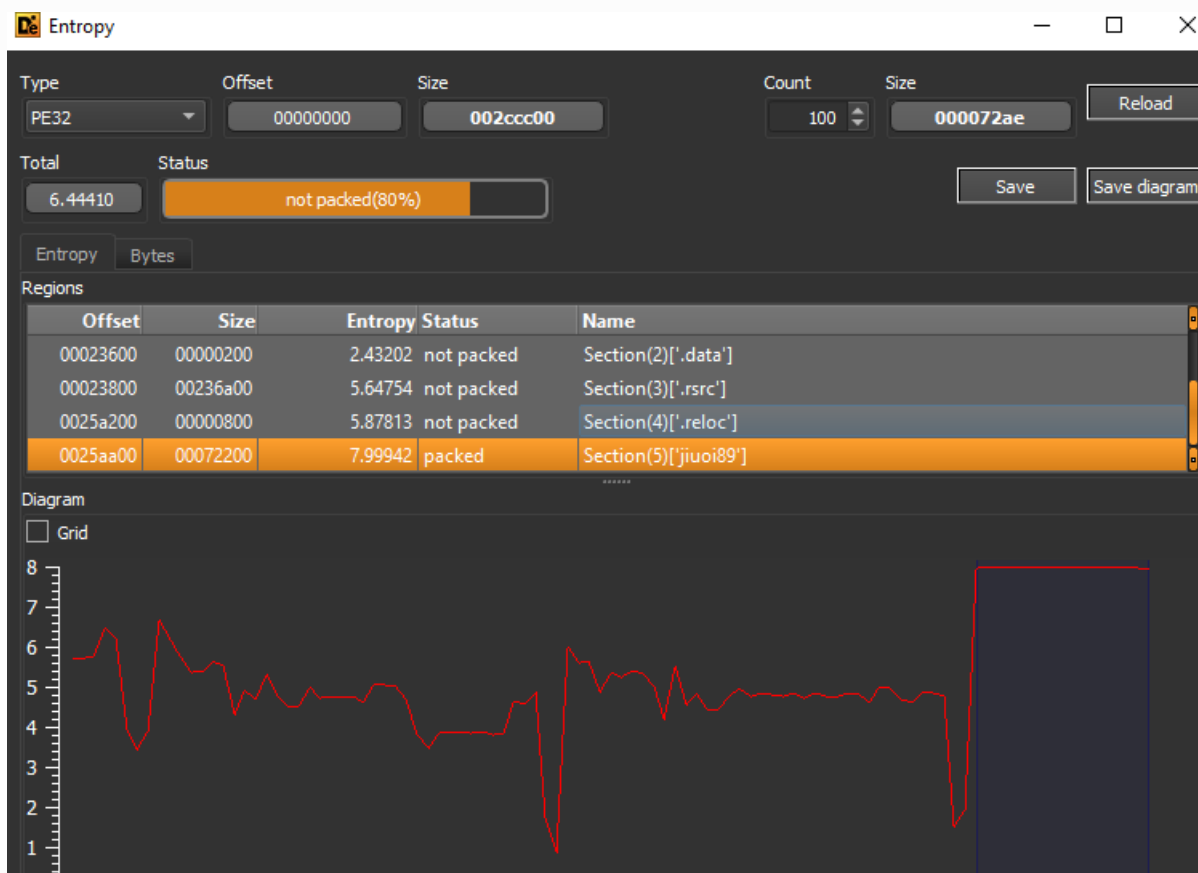




## Rhadamanthys Technical Analysis

### ATTODiskBenchmark.exe

File Name	ATTODiskBenchmark.exe
SHA-1	fc82785c04b3b805c58ca20d24e83c28dc73fc8
SHA-256	8e77cf490e5027b35fb25df886b991f9c63f7ecbca64aff34cd599a5ad9c63fd
File Type	PE32 - EXE



Upon initial analysis, it was observed that the malicious entity appeared to be packed, prompting the decision to unpack it. After successful unpacking, the malware generates a new thread to execute the deciphered code.

The identified malware employs certain anti-analysis techniques, including:

- Process BlackList
- API Hashing
- Time-Based Side-Channel Attack Detection
- Heaven's Gate

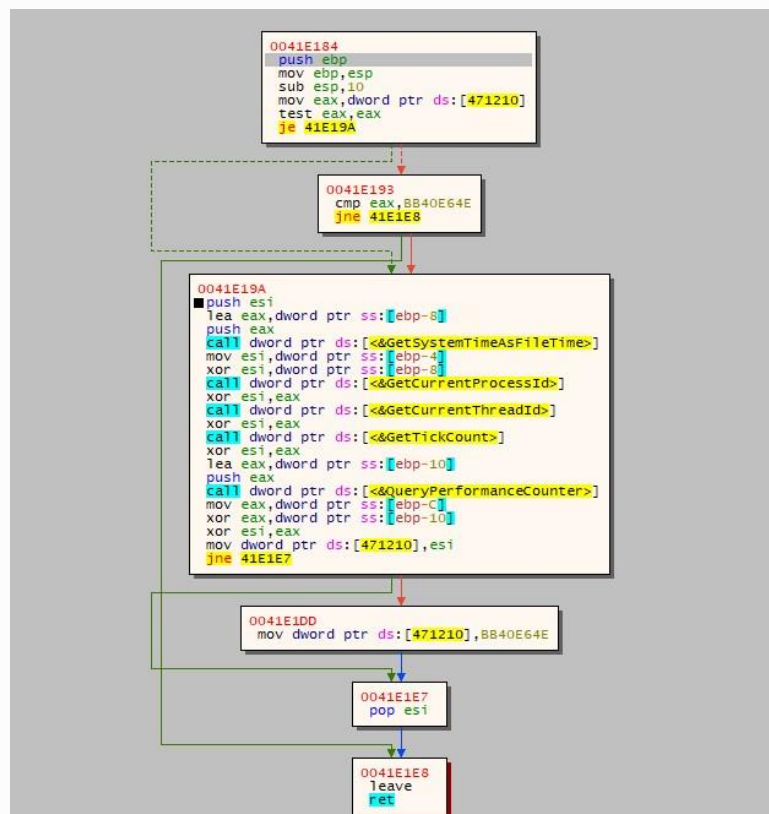




The malware checks the following process names to determine if it is running in the background:

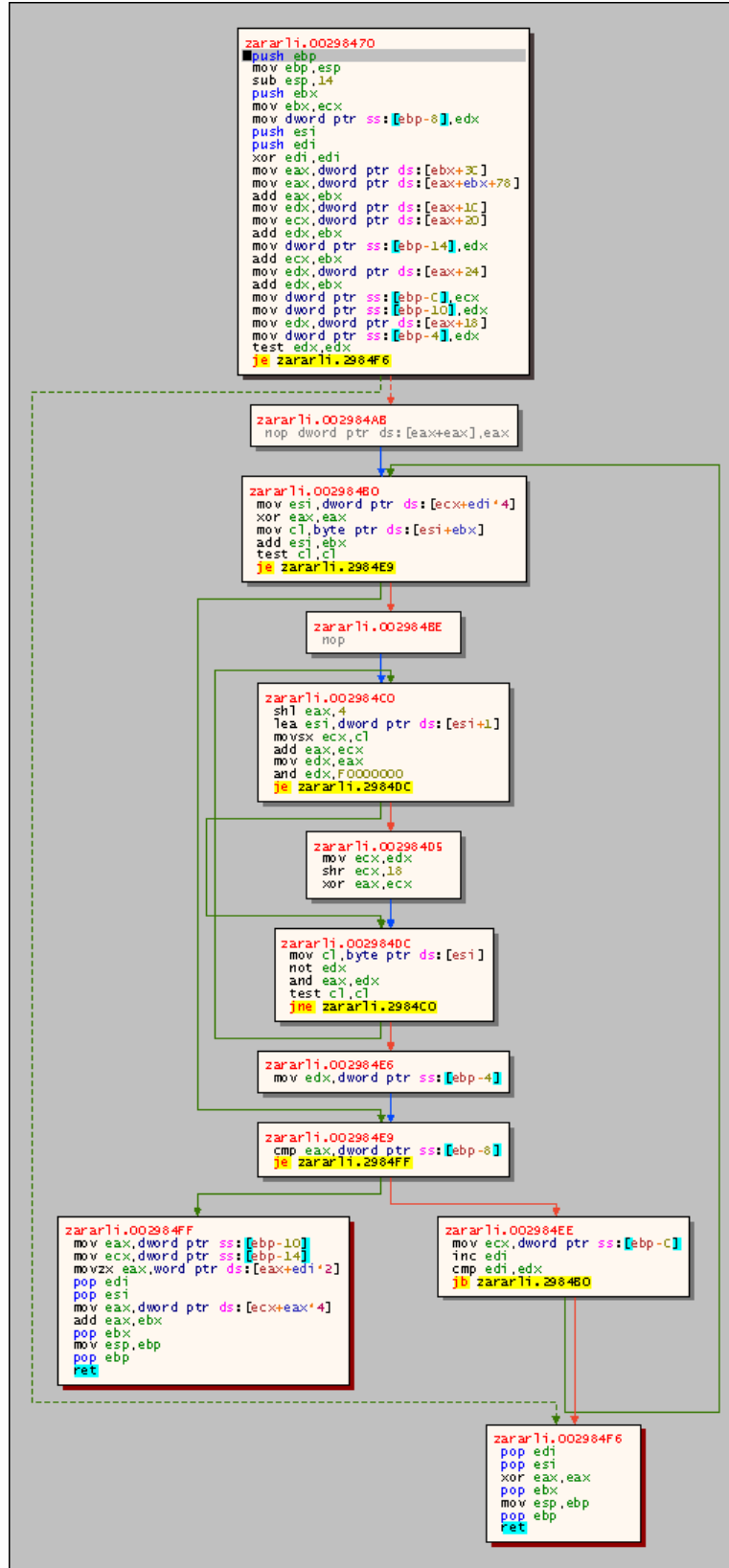
ImmunityDebugger.exe	hookexplorer.exe
WinDump.exe	ilspy.exe
x64dbg.exe	lordpe.exe
x32ddbg.exe	dnspy.exe
OllyDbg.exe	aautorunsc.exe
ProcessHacker.exe	resourcehacker.exe
idaq64.exe	regmon.exe
autoruns.exe	windanr.exe
dumpcap.exe	procexp.exe
de4dot.exe	Fiddler Everywhere.exe
procexp64.exe	Fiddler.exe
tcpview.exe	ida.exe
tcpview64.exe	ida64.exe
Procmon.exe	portmon.exe
Procmon64.exe	processlasso.exe
vmmap.exe	Wireshark.exe
vmmap64.exe	

## Time-Based Side-Channel Attack Detection

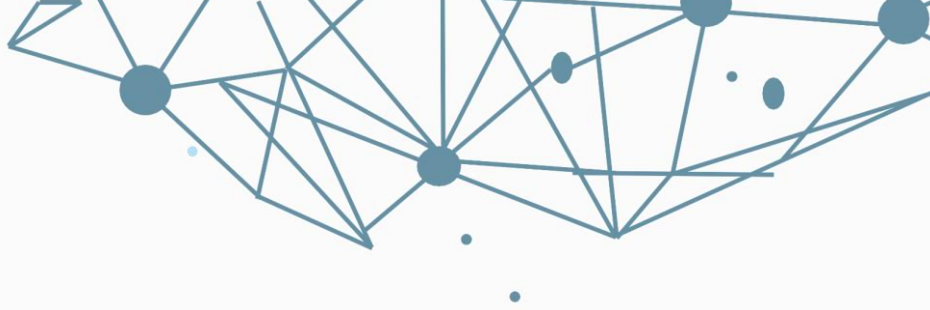


Şekil 3 Time-Based Side-Channel Attack Detection Algorithm

## API Hashing



Şekil 4 API Hashing Algorithm



## Hashing of APIs

```
function(char* apiname,int key){
    int result=key;
    for(i=0;i<strlen(apiname);i++){

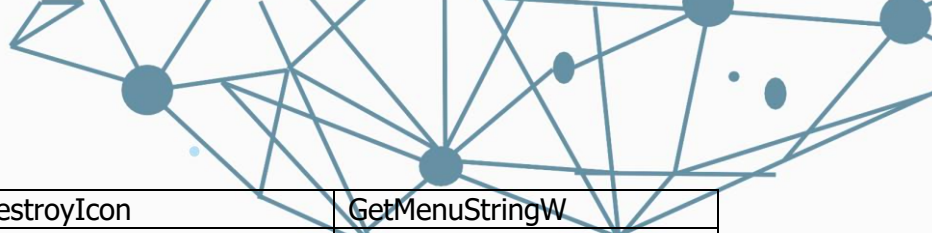
        result=result*result* 0x1000193;
        result=result^apiname[i];
    }
    return result;
}
```

*Şekil 5 Hashing of an API*

The deciphered list of APIs is as follows:

VirtualProtect	VirtualProtect	GetModuleHandleW
HeapSize	GetSystemInfo	MultiByteToWideChar
GetStringTypeW	OutputDebugStringA	GetCurrentProcess
GetStringTypeA	HeapAlloc	CloseHandle
GetCurrentProcessId	GetProcessHeap	ReadFile
GetSystemTimeAsFileTime	MulDiv	CreateFileW
GetLocaleInfoA	HeapFree	OutputDebugStringW
GetStringTypeA	IstrlenW	WideCharToMultiByte
GetStringTypeW	GetModuleFileNameW	ExitProcess
HeapSize	InterlockedIncrement	CreateEventW
GetModuleHandleW	HeapDestroy	DeleteMenu
MultiByteToWideChar	WaitForSingleObject	SetTimer
GetCurrentProcess	VirtualQuery	CreateAcce
CloseHandle	HeapCreate	eratorTableW
ReadFile	FrameRect	GetSystemMenu
CreateFileW	GetClassInfoW	DrawMenuBar
OutputDebugStringW	CharUpperBuffW	SetMenuItemInfoW
WideCharToMultiByte	IsIconic	GetWindowTextW
ExitProcess	EnableWindow	GetDCEx
CreateEventW	DrawIcon	RegisterClassW
GetMenuItemInfoW	LoadCursorW	LoadBitmapW
SetScrollPos	BeginPaint	DrawFocusRect
FillRect	CreateWindowExW	LoadIconW
CreateMenu	PostMessageW	ShowCaret
GetScrollInfo	EndPaint	CopyImage
KillTimer	ShowWindow	PeekMessageW





DestroyWindow	DestroyIcon	GetMenuStringW
CreateIcon	GetClassInfoExW	DefMDIChildProcW
InsertMenuW	LoadStringW	GetScrollRange
GetClientRect	GetDlgCtrlID	IsDialogMessageW
ReleaseDC	GetDC	GetTextMetricsW
DestroyMenu	GetSystemMetrics	MoveToEx
DefFrameProcW	RegCloseKey	CreateCompatibleBitmap
DispatchMessageW	RegQueryValueExW	GetWindowOrgEx
GetScrollPos	RegOpenKeyExW	SetRectRgn
GetCursor	StretchBlt	RoundRect
IsZoomed	SetBkMode	PolyBezierTo
DestroyCursor	SetAbortProc	CreatePalette
EndMenu	SetTextColor	CreateICW
MsgWaitForMultipleObjectsEx	GetStockObject	RectVisible
CreateSolidBrush	CoUninitialize	DocumentPropertiesW
Polygon	OleInitialize	ClosePrinter
AngleArc	OleUninitialize	OpenPrinterW
Piet	CoCreateInstance	EnumPrintersW
GetEnhMetaFileHeader	CoInitialize	GetModuleHandleA
RestoreDC	IsEqualGUID	GetSta
CreateDCW	CoTaskMemAlloc	rtupInfoA
GetDeviceCaps	GetFileVersionInfoW	GetCommandLineA
GDI32	VerQueryValueW	GetVersionExA
CoTaskMemFree	GetFileVersionInfoSizeW	GetProcAddress
TlsAlloc	GetModuleFileNameA	LeaveCriticalSection
SetLastError	UnhandledExceptionFilter	EnterCriticalSection
GetCurrentThreadId	FreeEnvironmentStringsA	GetACP
GetLastError	GetEnvironmentStrings	GetOEMCP
TlsFree	FreeEnvironmentStringsW	GetCPInfo
TlsSetValue	GetEnvironmentStringsW	LoadLibraryA
TlsGetValue	SetHandleCount	InitializeCriticalSection
TerminateProcess	GetFileType	VirtualAlloc
WriteFile	DeleteCriticalSection	HeapReAlloc
GetStdHandle	VirtualFree	RtlUnwind
InterlockedExchange	LCMapStringW	QueryPerformanceCounter
LCMapStringA	GetTickCount	



The decrypted User-Agent information is as follows:

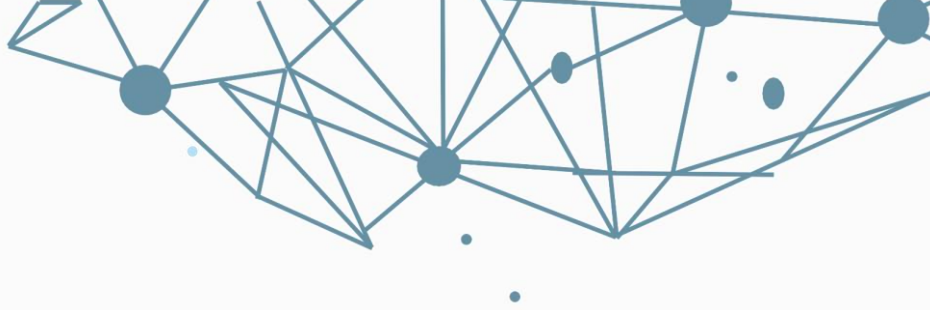
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/109.0\r\n
Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:108.0) Gecko/20100101 Firefox/108.0\r\n
Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML,like Gecko) Version/16.2 Safari/605.1.15\r\n
Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/109.0\r\n
Mozilla/5.0 (X11; Linux x86_64; rv:108.0) Gecko/20100101 Firefox/108.0\r\n
Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:109.0)Gecko/20100101 Firefox/109.0\r\n
Mozilla/5.0 (Macintosh; Intel MacOS X 10.15; rv:108.0) Gecko/20100101 Firefox/108.0\r\n
Mozilla/5.0(Windows NT 10.0; rv:109.0) Gecko/20100101 Firefox/109.0\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,like Gecko)Chrome/108.0.0.0 Safari/537.36 Edg/108.0.1462.76\r\n
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/109.0\r\n
Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36 dg/109.0.1518.61\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36 OPR/94.0.0.0\r\n
Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/16.1 Safari/605.1.15\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36 Edg/109.0.1518.70\r\n
Mozilla/5.0 (Windows NT 10.0; rv:108.0) Gecko/20100101 Firefox/108.0\r\n
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:108.0) Gecko/20100101 Firefox/108.0\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36 Edg/109.0.1518.55\r\n
Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/16.3 Safari/605.1.15\r\n
Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36Edg/109.0.1518.78\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:102.0) Gecko/20100101 Firefox/102.0\r\n
Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0.0 YaBrowser/22.11.5.715 Yowser/2.5 Safari/537.36\r\n



Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/105.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36 Edg/108.0.1462.54\r\n
Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/15.6.1 Safari/605.1.15\r\n
Mozilla/5.0 (Windows NT 10.0; rv:102.0) Gecko/20100101 Firefox/102.0\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36 OPR/93.0.0.0\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0 Safari/537.36\r\n
Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:107.0) Gecko/20100101 Firefox/1

Additionally, the malware has been found to monitor certain registry entries and files. These include:

Registry	File Name
31aPGJK9Lv	2yVLZrH
io74s	TY8kzx7
kyOs	kjdhM
kCnbOI	LndDr
c0g8G8rUSNM	b8svY
9nQmIB	Q7vc
LNU2W	Z3VTlyR
YpykW	QY9YVW
Ktcgpm	IK8pUeed2QM
MuIbGLO4	5XS2X1w6e
W1PGm	hTXjSJFrPa
GXhINinN	HHLSOv8m3
qd7cvBMA	xcYUv0IK
XF4J3D3	1R0Ny
tC342j	qFK88
jPY5BaNS	BvoNid
Uizj	MOgIUGJ1u
tDcVDhL8S	BcHXV3Cxa
msad0fkKex	aKt8EUt2pch
Q2dw5Ro4cO	cVVx8
WcZrCaG	ADYrwg5
AUU9sR3blYO	XiOujq9ex8B
4I05TZ	1v5L
HWS1JyNedYh	
bLV9jACrGH	



## Network

It has been identified that the malware establishes communication with an unconventional Command and Control (C2) server.

0403ADFF	59	pop ecx	
0403AE00	F3:A5	rep movsd	
0403AE02	8B3D C8A00504	mov edi,dword ptr ds:[&socket]	
0403AE08	53	push ebx	
0403AE09	6A 01	push 1	
0403AE0B	6A 02	push 2	
0403AE0D	FFD7	call edi	0 SOCK_STREAM AF_INET
0403AE0F	8B1D E0A00504	mov ebx,dword ptr ds:[&getsockopt]	
0403AE15	8BF0	mov esi,eax	
0403AE17	83FE FF	cmp esi,FFFFFFFF	
0403AE1A	BD 00000200	mov ebp,20000	
0403AE1F	74 38	je 403AE59	

Şekil 6 SOCKET Create

The malware has been observed to create sockets.

	push eax	
	lea eax,dword ptr ss:[ebp-28]	
	push eax	
	push edi	
	push ebx	ebx: "193.109.85.136"
0000	mov dword ptr ss:[ebp-1C],6	
4	call dword ptr ds:[&getaddrinfo]	
	test eax,eax	
	jne 4033A68	
	mov ecx,dword ptr ss:[ebp-41]	

Şekil 7 getaddrinfo

193[.]109[.]85[.]139 It has been determined that the IP address is specified as the socket address.

Upon execution, the Rhadamanthys malware initiates communication with the IP address 193[.]109[.]85[.]139, progressing to the next stage.

In the subsequent stages, the stolen information encompasses:

- System details
- Screenshots
- Browser credentials and cookies
- Cryptocurrency wallets
- FTP credentials
- Email clients
- Two-Factor Authentication applications (RoboForm, WinAuth, Authy Desktop)
- Password managers (KeePass)
- VPN information
- Messenger data (Psi+, Pidgin, TOX)
- Discord
- Telegram
- Steam
- TeamViewer, SecureCRT, and also NoteFly
- Notezilla
- Simple Sticky Notes



### Some of the collected cryptocurrency wallet extensions include:

Auvtas Wallet	BitApp	Crocobit
Exodus	Finnie	GuildWallet
ICONex	Jaxx	Keplr
Liquidity	MTV Wallet	Math
Metamask	Mobox	Nifty
Oxygen	Phantom	Rabet Wallet
Ronin Wallet	Slope Wallet	Sollet
Starcoin	Swash	Terra Station
Tron	XinPay	Yoroi Wallet
ZilPay Wallet	binance	coin98

### Targeted browsers include:

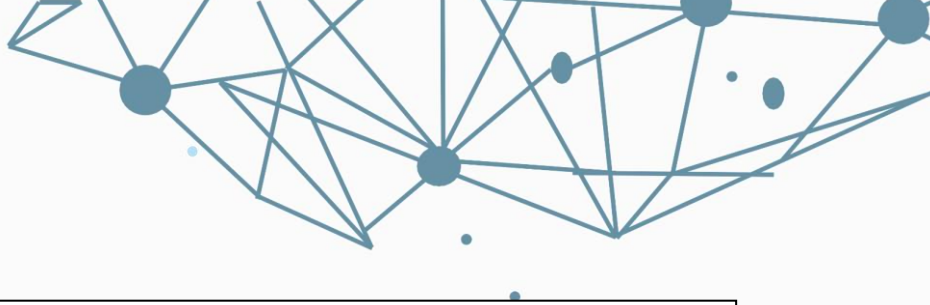
360ChromeX	360 Secure Browser	7Star
AVAST Browser	AVG Browser	Atom
Avant Browser	BlackHawk	Blisk
Brave	CCleaner Browser	CentBrowser
Chedot	CocCoc	Coowon
Cyberfox	Dragon	Element Browser
Epic Privacy Browser	Falkon	Firefox
Firefox Nightly	GhostBrowser	Google Chrome
Hummingbird	IceDragon	Iridium
K-Meleont	Kinza	Kometa Browser
SLBrowser	MapleStudio	Maxthon
Naver Whale	Opera	Opera GX
Opera Neon	QQBrowser	SRWare Iron
SeaMonkey	Sleipnir5	Slimjet
Superbird	Twinkstar	UCBrowser
Xvast	citrio	Pale Moon
Torch Web Browser	UR Browser	Vivaldi





## FTP

Cyberduck	FTP Navigator
FTPRush	FlashFXP
Smartftp	TotalCommander
Winscp	Ws_ftp
Coreftp	



## YARA RULE

```
rule Rhadamanthys {
  meta:
    date = "2023-08-23"
    description = "Detects Rhadamanthys malware"
    author = "Bilal BAKARTEPE"
    hash1 = "3798E6DAE3DF606799111B63BF54AAD9"
    verdict = "dangerous"
    platform = "windows"

  strings:
    $hashedAPI_1={F1 F0 AD 0A} //LoadLibraryA hash
    $hashedAPI_2={64 18 2D 07} //VirtualProtect hash
    $hashedAPI_3={B5 3D 2C 06} //WideCharToMultiByte hash
    $hashedAPI_4={17 8B FA 0D} //GetModuleFileNameW hash
    $hashedAPI_5={27 89 D6 0A} //CreateFile hash
    $hashedAPI_6={D5 69 67 00} //GetFileSize hash
    $hashedAPI_7={A5 CB 78 0B} //ReadFile hash

    $algorithm_1={8B 34 B9 33 C0 8A 0C 1E 03 F3 84 C9 74 2B 66 90 C1 E0 04 8D 76 01 0F BE C9 03
C1 8B D0 81 E2 00 00 00 F0 74 07 8B CA C1 E9 18 33 C1 8A 0E F7 D2 23 C2 84 C9 75 DA 8B 55 FC 3B
45 F8 74 11 8B 4D F4 47 3B FA 72 BA} // API hashing Algorithm

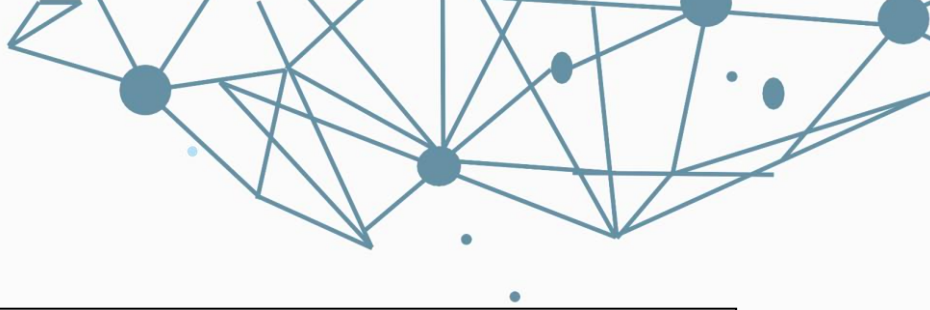
    $algorithm_2={8A 04 0E 8D 49 01 88 41 FF 83 EA 01 75 F2} //Copy itself a memory block
    $algorithm_3={8A 02 8D 49 01 88 41 FF 8D 52 01 83 EE 01 75 F0} // Copy itself a memory block
    $algorithm_4={8B 4C 24 04 8A 01 84 C0 74 16 8B 54 24 08 69 D2 93 01 00 01 0F B6 C0 33 D0 41
89 54 24 08 EB E4 8B 44 24 08} //hashing APIs algorithm

    $algorithm_5={7E 29 8B 45 10 8B 4D 08 2B C8 8A 14 01 32 55 14 88 10 8B 55 14 66 D1 6D 14
83 E2 01 85 D2 74 07 81 75 14 00 B4 00 00 40 4E 75 DF 5E } //Decrypt algorithm for User-Agent
informations

  condition:

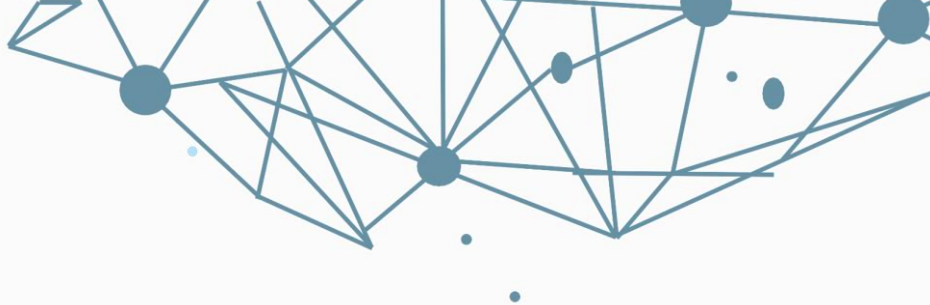
    (all of ($hashedAPI_*)and(any of ($algorithm_*)) or (any of ($algorithm_*))

}
```



## SIGMA RULE

```
title: Detects Outbound Socket Communication by Rhadamarhys
description: Detects processes communicating over a specific port using by Rhadamarhys.
status: experimental
author: Bilal BAKARTEPE
logsource:
  category: network
  type: firewall
detection:
  selection_1:
    field: destination.port
    values:
      - 7825
  selection_2:
    field: destination.ip
    values:
      - 193.109.85.136
  condition: all of selection_*
fields:
  - process.name
  - process.path
  - source.ip
  - destination.port
falsepositives:
  - unknown
level: high
```



## Mitre Att&ck

Discovery	Defense Evasion	Credential Access	Initial Access	Execution	Collection	Command and Control
<a href="#">T1082</a> <a href="#">System Information Discovery</a>	<a href="#">T1622</a> <a href="#">Debugger Evasion</a>	<a href="#">T1003</a> <a href="#">OS Credential Dumping</a>	<a href="#">T1199</a> <a href="#">Trusted Relationship</a>	<a href="#">T1106</a> <a href="#">Native API</a>	<a href="#">T1005</a> <a href="#">Data from Local System</a>	<a href="#">T1071</a> <a href="#">Application Layer Protocol: Web Protocols</a>
<a href="#">T1033</a> <a href="#">System Owner/User Discovery</a>	<a href="#">T1140</a> <a href="#">Deobfuscate/Decode Files or Information</a>	<a href="#">T1110.001</a> <a href="#">Brute Force: Password Guessing</a>	<a href="#">T1566</a> <a href="#">Phishing</a>	<a href="#">T1053</a> <a href="#">Scheduled Task/Job</a>	<a href="#">T1560</a> <a href="#">Archive Collected Data</a>	<a href="#">T1571</a> <a href="#">Non-Standard Port</a>
<a href="#">T1217</a> <a href="#">Browser Information Discovery</a>	<a href="#">T1600</a> <a href="#">Weaken Encryption</a>	<a href="#">T1155</a> <a href="#">Credentials from Password Stores</a>				
<a href="#">T1057</a> <a href="#">Process Discovery</a>						
<a href="#">T1012</a> <a href="#">Query Registry</a>						
<a href="#">T1614</a> <a href="#">System Location Discovery</a>						
<a href="#">T1124</a> <a href="#">System Time Discovery</a>						
<a href="#">T1497</a> <a href="#">Virtualization/Sandbox Evasion</a>						

# ECHO

CYBER THREAT INTELLIGENCE

