

Malware Analysis Final Report

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Check in VirusTotal

Information gathered :

59
/ 68

Community Score

59 security vendors and 1 sandbox flagged this file as malicious

5eced7367ed63354b4ed5c556e2363514293f614c2c2eb187273381b2ef5f0f9
Lab03-02.dll

23.50 KB
Size

2021-10-29 17:49:16 UTC
1 month ago

DLL

armadillo detect-debug-environment invalid-rich-pe-modified-lst overlay pedll via-tor

DETECTION	DETAILS	RELATIONS	BEHAVIOR	COMMUNITY
Ad-Aware	Gen:Variant.Ulise.173672	AhnLab-V3	Trojan.Win32.Xema.C93063	
Alibaba	Backdoor.Win32/Connapts.f1091a1a	ALYac	Gen:Variant.Ulise.173672	
Antiy-AVL	Trojan/Generic.ASMalwS.15D285	Arcabit	Trojan.Ulise.D2A668	
Avast	Win32:Malware-gen	AVG	Win32:Malware-gen	
Avira (no cloud)	BDS/Backdoor.Gen	BitDefender	Gen:Variant.Ulise.173672	
BitDefenderTheta	Gen:NN.ZedlaF.34236.bq5@aq5eUxk	CAT-QuickHeal	Trojan.Connaps	
ClamAV	Win.Trojan.Agent-385568	Comodo	TrojWare.Win32.Small.dy39@4owfj9	
CrowdStrike Falcon	Win/malicious_confidence_90% (W)	Cylance	Unsafe	
Cynet	Malicious (score: 100)	DrWeb	BackDoor.Siggen.38566	
eGambit	Unsafe.AI_Score_63%	Elastic	Malicious (high Confidence)	
Emsisoft	Gen:Variant.Ulise.173672 (B)	eScan	Gen:Variant.Ulise.173672	
ESET-NOD32	A Variant Of Win32/Small.NDX	FireEye	Generic.mg.84882c9d43e23d63	
Fortinet	W32/Small.NDX:tr	GData	Gen:Variant.Ulise.173672	

- The virus can be detected in 59
- Its basic information

Basic Properties

MD5	84882c9d43e23d63b82004fae74ebb61
SHA-1	c6fb3b50d946bec6f391aefa4e54478cf8607211
SHA-256	5eced7367ed63354b4ed5c556e2363514293f614c2c2eb187273381b2ef5f0f9
Vhash	124046655d5550c8z142qz71ze6z5
Authentihash	b76700f50d6f09408958f9e40f562908cd4050e0f992efaec0ca63e0fc9638e0
Imphash	3167552ee0bbbd4f5f440adf5f65bab8
Rich PE header hash	0b35dd18f37347b1f6e183c884f29a4e
SSDEEP	384:NcTA0TAKHWYvVvUYGXFgeJGjHwTACLPkldSgbl/xAlrWdhoQsxRiAHZ:NcTA0TAK2y2oBCbH4gtxrWd5sxRL
TLSH	T17AB2090693482CE3C5D50C3433765F2D8F3F366A275DD39BEA431B5839AA55AAC78306
File type	Win32 DLL
Magic	PE32 executable for MS Windows (DLL) (GUI) Intel 80386 32-bit
TrID	Win32 Executable MS Visual C++ (generic) (38.8%)
TrID	Microsoft Visual C++ compiled executable (generic) (20.5%)
TrID	Win64 Executable (generic) (13%)
TrID	Win32 Dynamic Link Library (generic) (8.1%)
TrID	Win16 NE executable (generic) (6.2%)
File size	23.50 KB (24065 bytes)
PEiD packer	Microsoft Visual C++ v6.0 DLL

+ Hashes types : MD5, SHA-1, SHA-256, Vhash, Authentihash, SSDEEP.

+ File type : Win32 DLL

+ Packer used: PEiD paker

+ File size : 23.50 KB (24065 bytes)

+ Creation time: 2010-09-28 01:00:25

- It aim and behaviors

+ Target machine : Intel 386 or later processors and compatible processors

+ Imports : ADVAPI32.dll

KERNEL32.dll

MSVCRT.dll

WS2_32.dll

WININET.dll

+ Contact IP:

54.70.80.82 US

34.215.46.102 US

13.227.222.97 US

34.216.113.46 US

13.227.222.34 US

13.227.222.36 US

54.148.159.250 US

44.235.28.153 US

35.167.137.152 US

44.225.87.131 US

13.227.222.18 US

35.155.229.139 US

20.190.160.8 NL

20.190.159.132 IE

40.126.31.6 IE

40.126.31.4 IE

40.126.31.1 IE

13.89.179.12 US

40.126.31.141 IE

40.126.31.143 IE

+ Domain:

firefox.settings.services.mozilla.com

telemetry-incoming.r53-2.services.mozilla.com

pipeline-incoming-prod-elb-149169523.us-west-2.elb.amazonaws.com

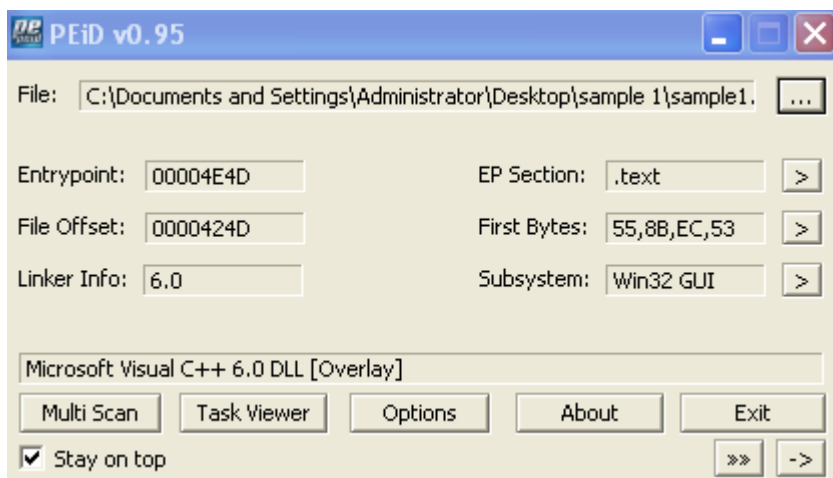
login.live.com

arc.msn.com

incoming.telemetry.mozilla.org

Check in tools

Check in PEid

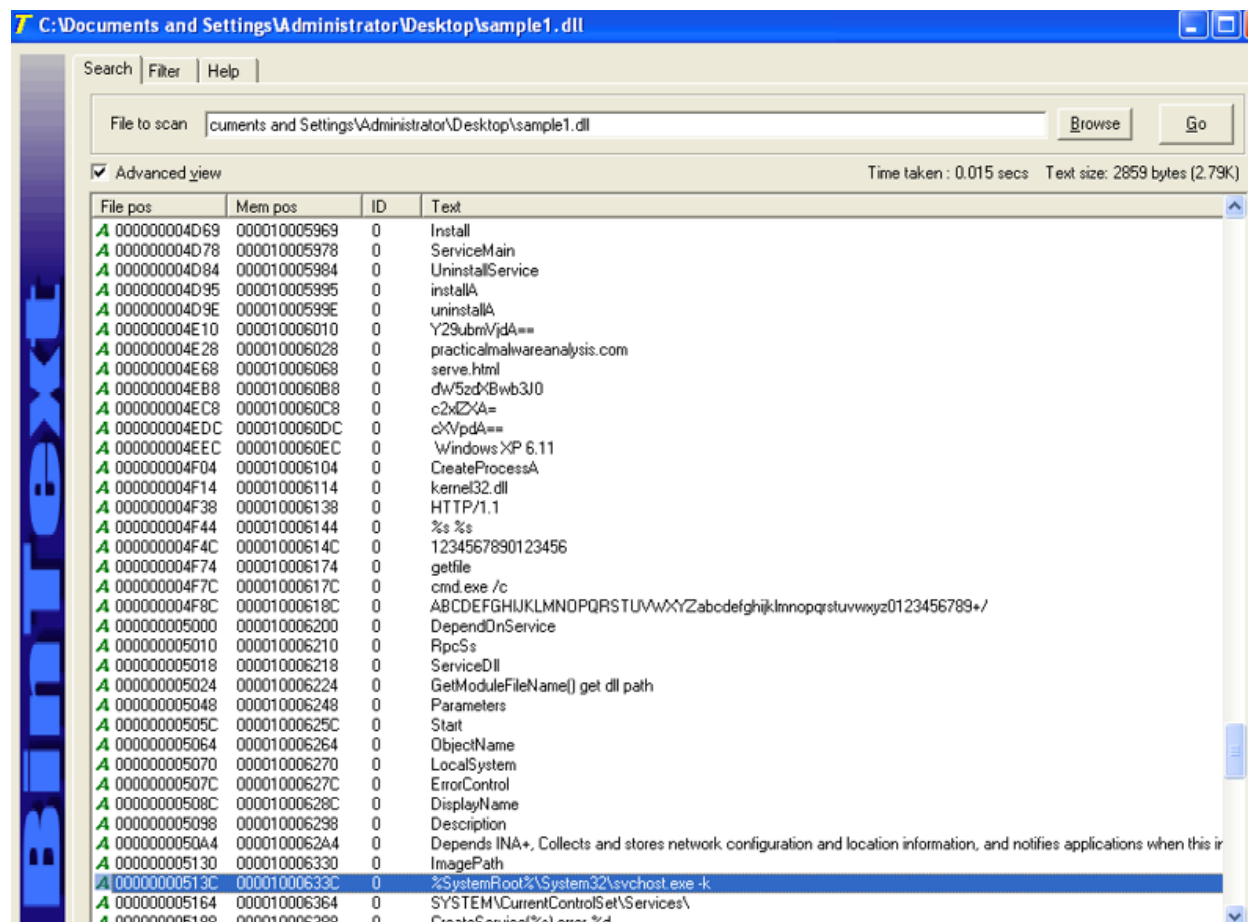


The screenshot shows the Section Viewer application window. It contains a table with the following data:

Name	V. Offset	V. Size	R. Offset	R. Size	Flags
.text	00001000	00003F0A	00000400	00004000	60000020
.rdata	00005000	000009A9	00004400	00000A00	40000040
.data	00006000	0000B5C8	00004E00	00000600	C0000040
.reloc	00012000	0000083C	00005400	00000A00	42000040

A 'Close' button is located at the bottom of the window.

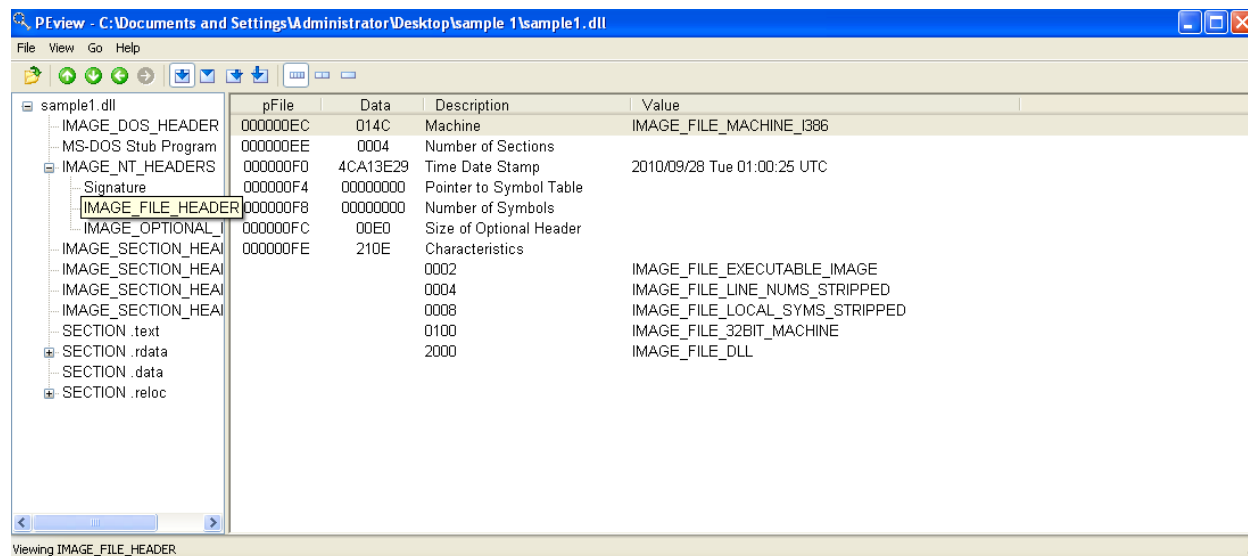
Check on BinText



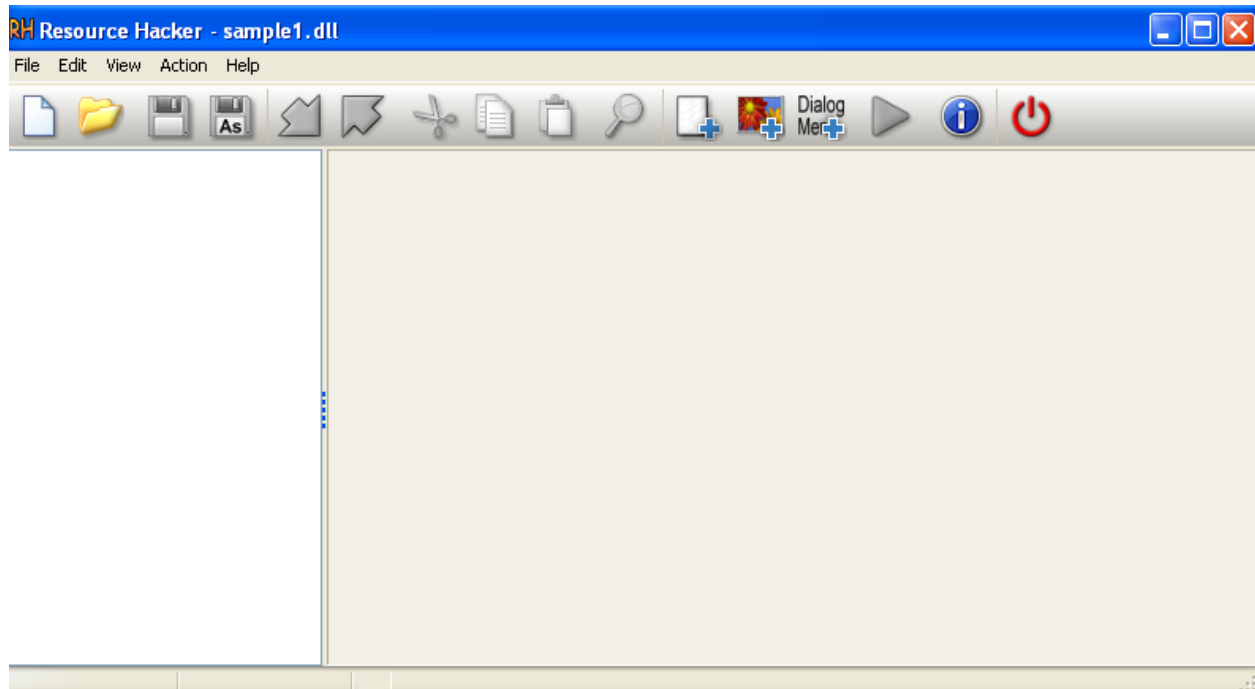
Some interested string : HTTP/1.1

I think is a Trojan

Check PView

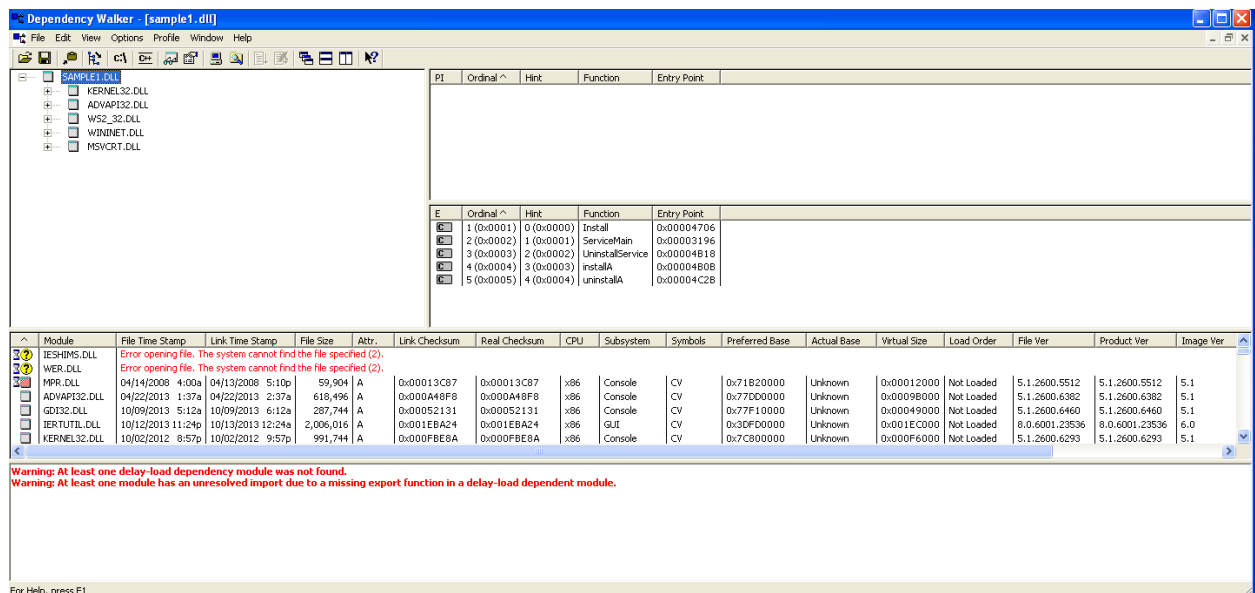


Check Reesource



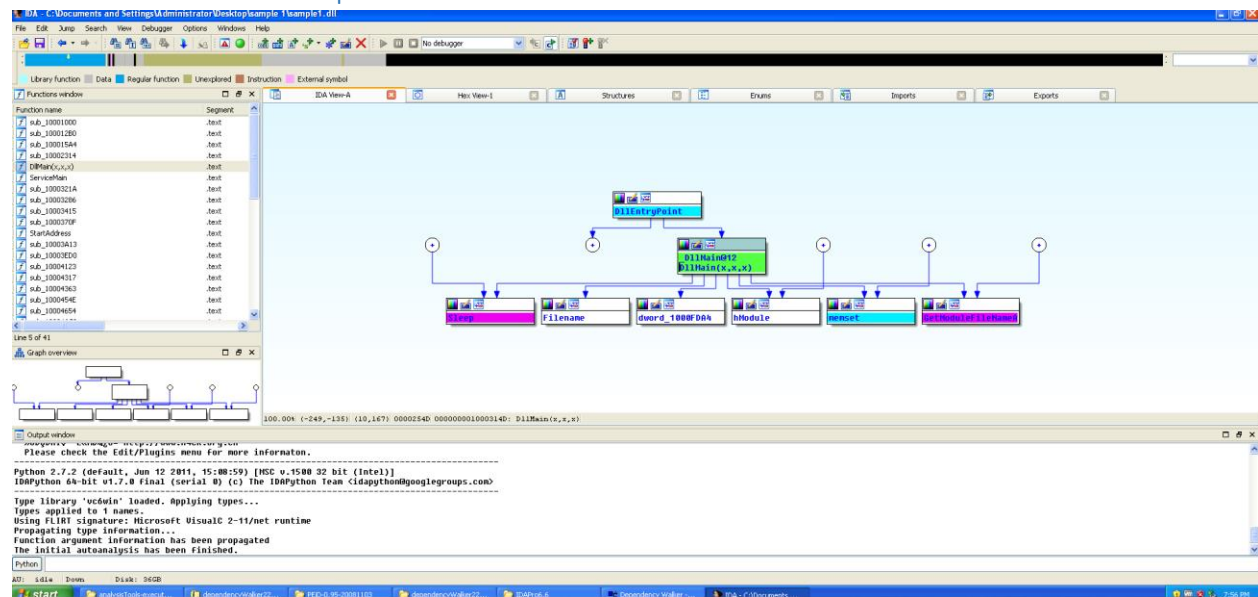
Have nothing

Check Dependency Walker



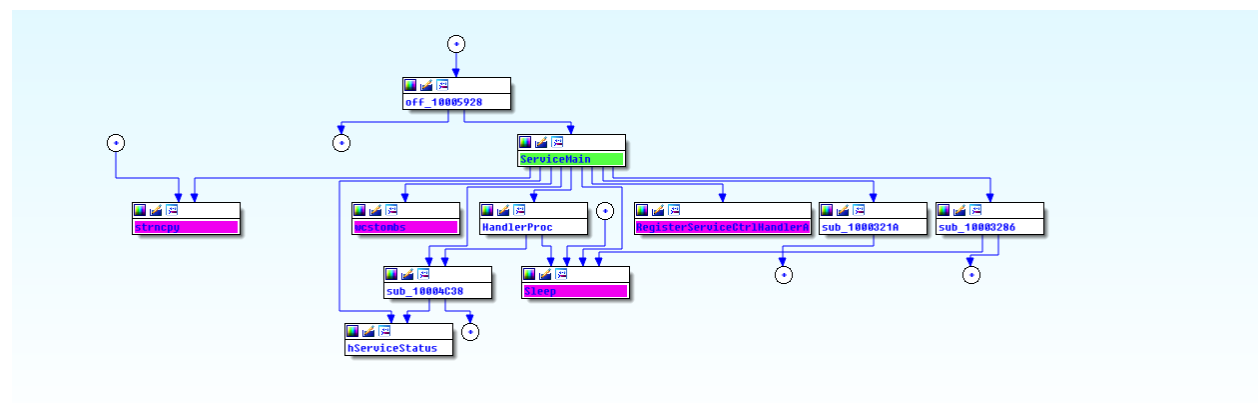
- Check internet connect

Check malware on IDAq



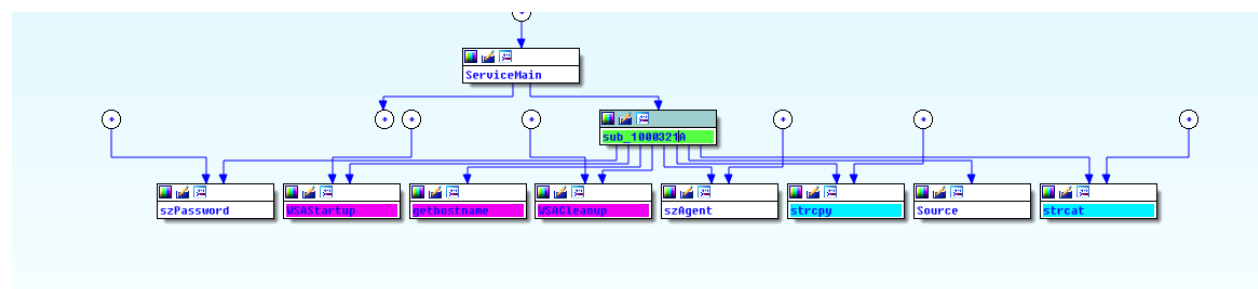
It is main DllMain(x,x,x)

We check ServiceMain



It look like the main of the malware

We check sub_1000321A



We check sub_10003415

The screenshot shows the IDA Pro interface. The disassembly window displays assembly code for a function, with a cross-reference table on the left. The console window shows the output of a Python script, including the command 'opsegment' and the message 'Command "opsegment" failed'.

Import

00000000...	OpenServiceA	ADVAPI32
00000000...	DeleteService	ADVAPI32
00000000...	RegOpenKeyExA	ADVAPI32
00000000...	RegQueryValueExA	ADVAPI32
00000000...	RegCloseKey	ADVAPI32
00000000...	OpenSCManagerA	ADVAPI32
00000000...	CreateServiceA	ADVAPI32
00000000...	CloseServiceHandle	ADVAPI32
00000000...	RegCreateKeyA	ADVAPI32
00000000...	RegSetValueExA	ADVAPI32
00000000...	RegisterServiceCtrlHandlerA	ADVAPI32
00000000...	SetServiceStatus	ADVAPI32
00000000...	GetStartupInfoA	KERNEL32
00000000...	CreatePipe	KERNEL32
00000000...	GetCurrentDirectoryA	KERNEL32
00000000...	CreateProcessA	KERNEL32
00000000...	IsntlnA	KERNEL32
00000000...	SetLastError	KERNEL32
00000000...	OutputDebugStringA	KERNEL32
00000000...	CloseHandle	KERNEL32
00000000...	ReadFile	KERNEL32
00000000...	GetTempPathA	KERNEL32
00000000...	GetLongPathNameA	KERNEL32
00000000...	LoadLibraryA	KERNEL32
00000000...	GetProcAddress	KERNEL32
00000000...	CreateThread	KERNEL32
00000000...	GetSystemTime	KERNEL32
00000000...	WaitForSingleObject	KERNEL32
00000000...	TerminateThread	KERNEL32

Exports

Name	Address	Ordinal
Install	0000000010004706	1
ServiceMain	0000000010003196	2
UninstallService	0000000010004B18	3
installA	0000000010004B0B	4
uninstallA	0000000010004C2B	5
DllEntryPoint	0000000010004E4D	

Summary

Create a service name INA+