# Malware Analysis Appliance by Blue Coat Systems, Inc.

Task Details

Host: mag2, Sample ID: 229, Task ID: 915

Task ID: 915 Risk Level: 6

Date Processed: 2016-04-28 13:12:26 (UTC)

Processing Time: 61.09 seconds
Virtual Environment: IntelliVM

Execution Arguments: "c:\windows\temp\57112dcee40c362f4c3938e2b4d9e16f.exe"

Sample ID: 229
Type: basic
Owner: admin

Label: 57112dcee40c362f4c3938e2b4d9e16f

Date Added: 2016-04-28 12:45:13 (UTC)

File Type: PE32:win32:gui File Size: 183332 bytes

MD5: 57112dcee40c362f4c3938e2b4d9e16f

SHA256: 1c9dedcb3d3ddf01c83ab9c5d496628a8f1ff3bc6f494b9a78e0000e1425f000

Description: None

### Pattern Matching Results

6 Renames file on boot

PE: Nonstandard section

5 Creates process in suspicious location

4 Packer: NSIS [Nullsoft Scriptable Install System]

#### Static Events

Anomaly: PE: Contains a virtual section

Anomaly: PE: Contains one or more non-standard sections

#### Process/Thread Events

Creates process: C:\WINDOWS\Temp\57112dcee40c362f4c3938e2b4d9e16f.exe

["c:\windows\temp\57112dcee40c362f4c3938e2b4d9e16f.exe"]

Creates process: C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Au\_.exe
["C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Au\_.exe" \_?=c:\windows\temp\]

Terminates process: C:\WINDOWS\Temp\57112dcee40c362f4c3938e2b4d9e16f.exe

# Named Object Events

Creates mutex: \BaseNamedObjects\CTF.LBES.MutexDefaultS-1-5-21-1757981266-507921405-

1957994488-1003

Creates mutex: \BaseNamedObjects\CTF.Compart.MutexDefaultS-1-5-21-1757981266-507921405-

1957994488-1003

Creates mutex: \BaseNamedObjects\CTF.Asm.MutexDefaultS-1-5-21-1757981266-507921405-

1957994488-1003

Creates mutex: \BaseNamedObjects\CTF.Layouts.MutexDefaultS-1-5-21-1757981266-507921405-

1957994488-1003

Creates mutex: \BaseNamedObjects\CTF.TMD.MutexDefaultS-1-5-21-1757981266-507921405-

1957994488-1003

Creates mutex: \BaseNamedObjects\CTF.TimListCache.FMPDefaultS-1-5-21-1757981266-

507921405-1957994488-1003MUTEX.DefaultS-1-5-21-1757981266-507921405-1957994488-1003

Creates mutex: \BaseNamedObjects\MSCTF.Shared.MUTEX.EOG
Creates mutex: \BaseNamedObjects\MSCTF.Shared.MUTEX.IOH

Creates event: \BaseNamedObjects\MSCTF.SendReceive.Event.IOH.IC

Creates event: \BaseNamedObjects\MSCTF.SendReceiveConection.Event.IOH.IC
Creates semaphore: \BaseNamedObjects\shell.{A48F1A32-A340-11D1-BC6B-00A0C90312E1}
Creates semaphore: \BaseNamedObjects\shell.{7CB834F0-527B-11D2-9D1F-0000F805CA57}

# File System Events

 $\label{local_continuous_continuous_continuous_continuous} C:\DOCUME~1\Admin\LOCALS~1\Temp\$ 

Creates: C:\Documents and Settings\Admin\Local Settings\Temp\nsl1.tmp
Creates: C:\Documents and Settings\Admin\Local Settings\Temp\~nsu.tmp

Creates: C:\Documents and Settings\Admin\Local Settings\Temp\~nsu.tmp\Au\_.exe

Creates: C:\Documents and Settings\Admin\Local Settings\Temp\nsv2.tmp
Creates: C:\Documents and Settings\Admin\Local Settings\Temp\nse3.tmp

Creates: C:\DOCUME~1
Creates: C:\DOCUME~1\Admin

Creates: C:\DOCUME~1\Admin\LOCALS~1

```
Creates:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp
                         C:\Documents and Settings\Admin\Local Settings\Temp\nse3.tmp\LangDLL.dll
 Creates:
                         C:\WINDOWS\Prefetch\57112DCEE40C362F4C3938E2B4D9E-2850F883.pf
 Opens:
 Opens:
                         C:\Documents and Settings\Admin
                         C:\WINDOWS\WinSxS\x86_Microsoft.Windows.Common-
 Opens:
Controls_6595b64144ccf1df_6.0.2600.5512_x-ww_35d4ce83
                         C:\WINDOWS\WinSxS\x86_Microsoft.Windows.Common-
Controls_6595b64144ccf1df_6.0.2600.5512_x-ww_35d4ce83\comctl32.dll
                         C:\WINDOWS\Temp\57112dcee40c362f4c3938e2b4d9e16f.exe
 Opens:
 Opens:
                         C:\WINDOWS\system32\imm32.dll
 Opens:
                         C:\WINDOWS\WindowsShell.Manifest
 Opens:
                         C:\WINDOWS\WindowsShell.Config
 Opens:
                         C:\WINDOWS\system32\shell32.dll
 Opens:
                         C:\WINDOWS\system32\SHELL32.DLL.124.Manifest
 Opens:
                         C:\WINDOWS\system32\SHELL32.DLL.124.Config
 Opens:
                         C:\WINDOWS\system32\rpcss.dll
 Opens:
                         C:\WINDOWS\system32\MSCTF.dll
 Opens:
                         C:\WINDOWS\system32\shfolder.dll
 Opens:
                         C:\WINDOWS\system32\setupapi.dll
 Opens:
 Opens:
                         C:\Documents and Settings
                         C:\Documents and Settings\Admin\Local Settings\Temp\nsl1.tmp
 Opens:
                         C:\WINDOWS\Temp\016c34d5-2c17-4031-a8f3-91fd00d84585
 Opens:
 Opens:
                         C:\Documents and Settings\Admin\Local Settings\Temp\~nsu.tmp
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Au\_.exe
 Opens:
                         C:\Documents and Settings\Admin\Local Settings\Temp\~nsu.tmp\Au_.exe
                         C:\WINDOWS\system32\apphelp.dll
 Opens:
 Opens:
                         C:\WINDOWS\AppPatch\sysmain.sdb
 Opens:
                         C:\WINDOWS\AppPatch\systest.sdb
 Opens:
                         C:\Documents and Settings\Admin\Local Settings
 Opens:
                         C:\Documents and Settings\Admin\Local Settings\Temp
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Au_.exe.Manifest
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Au_.exe.Config
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Bu_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Cu_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\nsu.tmp\Du\_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Eu_.exe
                         C:\WINDOWS\Prefetch\AU_.EXE-34E9686B.pf
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Fu_.exe
 Opens:
                         \label{locals-1} C:\DOCUME~1\Admin\LOCALS~1\Temp\-nsu.tmp\Gu\_.exe
 Opens:
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Hu_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Iu_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Ju_.exe
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Ku\_.exe
 Opens:
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Lu_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Mu_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Nu_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Ou_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Pu_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Qu_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Ru\_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Su_.exe
 Opens:
                         \label{locals-1} C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Tu\_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Uu_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Vu_.exe
 Opens:
                         \label{locals-1} C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Wu\_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Xu\_.exe
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Yu_.exe
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Zu_.exe
 Opens:
 Opens:
                         C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp
 Opens:
                         C:\Documents and Settings\Admin\Local Settings\Temp\nsv2.tmp
                         C:\WINDOWS
 Opens:
                         C:\Documents and Settings\Admin\Local Settings\Temp\nse3.tmp
 Opens:
 Opens:
                         C:\Documents and Settings\Admin\Local Settings\Temp\nse3.tmp\LangDLL.dll
 Opens:
                         C:\WINDOWS\system32\MSCTFIME.IME
 Opens:
                         C:\WINDOWS\system32\uxtheme.dll
 Opens:
                         C:\WINDOWS\system32\MSIMTF.dll
 Writes to:
                         C:\Documents and Settings\Admin\Local Settings\Temp\~nsu.tmp\Au_.exe
 Writes to:
                         C:\Documents and Settings\Admin\Local Settings\Temp\nse3.tmp\LangDLL.dll
                         C:\WINDOWS\Temp\57112dcee40c362f4c3938e2b4d9e16f.exe
 Reads from:
 Reads from:
                         C:\Documents and Settings\Admin\Local Settings\Temp\~nsu.tmp\Au_.exe
                         C:\Documents and Settings\Admin\Local Settings\Temp\nsl1.tmp
 Deletes:
 Deletes:
                         C:\Documents and Settings\Admin\Local Settings\Temp\nsv2.tmp
                         C:\Documents and Settings\Admin\Local Settings\Temp\nse3.tmp
 Deletes:
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### Windows Registry Events

Creates kev:

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HKLM\system\currentcontrolset\control\session manager Creates key:

Opens key:  $\label{thm:local_hammon_hammon} \begin{tabular}{ll} HKLM \end{tabular} software \end{tabular} in cosoft \end{tabular} windows nt \end{tabular} under the constant \end{tabular} in the constant \end{tabular} and \end{tabular} in the constant \end$ 

options\57112dcee40c362f4c3938e2b4d9e16f.exe

HKLM\system\currentcontrolset\control\terminal server

Opens key:

HKLM\software\microsoft\windows\currentversion\sidebyside\assemblystorageroots Opens key: HKLM\system\currentcontrolset\control\safeboot\option

Opens key: HKLM\software\policies\microsoft\windows\safer\codeidentifiers Opens key: HKCU\software\policies\microsoft\windows\safer\codeidentifiers

HKLM\software\microsoft\windows nt\currentversion\image file execution Opens key:

options\secur32.dll

HKLM\software\microsoft\windows nt\currentversion\image file execution Opens key:

options\rpcrt4.dll

HKLM\software\microsoft\windows nt\currentversion\image file execution Opens key:

options\advapi32.dll

Opens key: HKLM\software\microsoft\windows nt\currentversion\winlogon

Opens key:

Opens key: HKLM\software\microsoft\windows nt\currentversion\diagnostics

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\msvcrt.dll

HKLM\software\microsoft\windows nt\currentversion\image file execution Opens key:

options\user32.dll

Opens key: HKLM\system\currentcontrolset\control\session manager

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\imm32.dll

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\ntdll.dll

HKLM\software\microsoft\windows nt\currentversion\image file execution Opens key:

options\kernel32.dll

HKLM\software\microsoft\windows nt\currentversion\image file execution Opens key:

options\gdi32.dll

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\shlwapi.dll Opens key:

options\comctl32.dll

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Opens key:

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Opens key:

HKLM\software\microsoft\windows nt\currentversion\image file execution options\shell32.dll

Opens key: options\version.dll

Opens key: HKLM\system\currentcontrolset\control\error message instrument\ Opens key: HKLM\system\currentcontrolset\control\error message instrument Opens key: HKLM\software\microsoft\windows nt\currentversion\gre\_initialize  $\label{lem:hklm} \verb+Kklm\+ software\+ microsoft\+ windows nt\+ current version\+ compatibility 32$ Opens key: HKLM\software\microsoft\windows nt\currentversion\ime compatibility Opens key:

Opens key: HKLM\software\microsoft\windows nt\currentversion\windows

Opens key: HKLM\software\microsoft\windows\currentversion\explorer\performance

Opens key: HKCU\

HKCU\software\policies\microsoft\control panel\desktop Opens key:

Opens key: HKCU\control panel\desktop

Opens key: HKCU\software\microsoft\windows\currentversion\explorer\advanced Opens key: HKLM\software\microsoft\windows nt\currentversion\languagepack

Opens key: HKLM\software\microsoft\ole

Opens key: HKCR\interface

Opens key: HKCR\interface\{00020400-0000-0000-c000-00000000046}

Opens key: HKLM\system\setup

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options\msctf.dll

Opens key:

HKLM\software\microsoft\ctf\compatibility\57112dcee40c362f4c3938e2b4d9e16f.exe

HKLM\software\microsoft\ctf\systemshared\ Opens key:

Opens key: HKCU\keyboard layout\toggle Opens key: HKLM\software\microsoft\ctf\

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\shfolder.dll

Opens key: HKLM\software\microsoft\windows\currentversion\policies\explorer Opens key: HKCU\software\microsoft\windows\currentversion\policies\explorer

Opens key:

Opens key:

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Opens key: HKCU\software\classes\

Opens key: HKCU\software\classes\clsid\{20d04fe0-3aea-1069-a2d8-

08002b30309d}\inprocserver32

Opens key: HKCR\clsid\{20d04fe0-3aea-1069-a2d8-08002b30309d}\inprocserver32
Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\setupapi.dll

Opens key: HKLM\system\currentcontrol\minint

Opens key: HKLM\system\wpa\pnp

Opens key: HKLM\software\microsoft\windows\currentversion\setup
Opens key: HKLM\software\microsoft\windows\currentversion

Opens key: HKLM\software\microsoft\windows\currentversion\setup\apploglevels
Opens key: HKLM\system\currentcontrolset\control\computername\activecomputername

Opens key: HKLM\system\currentcontrolset\services\tcpip\parameters
Opens key: HKLM\software\policies\microsoft\system\dnsclient

Opens key: HKLM\software\microsoft\rpc\pagedbuffers

Opens key: HKLM\software\microsoft\rpc

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

 $options \verb|\| 57112 dcee 40 c362 f4 c3938 e2b4 d9e16 f.exe \verb|\| rpcthreadpool throttle | and the second of the se$ 

Opens key: HKLM\software\policies\microsoft\windows nt\rpc
Opens key: HKLM\system\currentcontrolset\control\computername

Opens key:

HKCU\software\microsoft\windows\currentversion\explorer\mountpoints2\cpc\volume

Opens kev:

11e3-9fc7-806d6172696f}\

Opens key: HKCU\software\classes\drive\shellex\folderextensions

Opens key: HKCR\drive\shellex\folderextensions

Opens key: HKCU\software\classes\drive\shellex\folderextensions\{fbeb8a05-beee-

4442-804e-409d6c4515e9}

Opens key: HKCR\drive\shellex\folderextensions\{fbeb8a05-beee-4442-804e-

409d6c4515e9}

Opens key: HKCU\software\classes\directory

Opens key: HKCR\directory

Opens key: HKCU\software\classes\directory\curver

Opens key: HKCR\directory\curver
Opens key: HKCR\directory\

Opens key: HKCU\software\microsoft\windows\currentversion\explorer
Opens key: HKCU\software\microsoft\windows\currentversion\explorer\
Opens key: HKCU\software\microsoft\windows\currentversion\policies\system

Opens key: HKCU\software\classes\directory\shellex\iconhandler

Opens key: HKCR\directory\shellex\iconhandler
Opens key: HKCU\software\classes\directory\clsid

Opens key: HKCR\directory\clsid

Opens key: HKCU\software\classes\folder

Opens key: HKCR\folder

Opens key: HKCU\software\classes\folder\clsid

Opens key: HKCR\folder\clsid

Opens key: HKLM\system\currentcontrolset\control\session manager\appcertdlls
Opens key: HKLM\system\currentcontrolset\control\session manager\appcompatibility
Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\apphelp.dll

Opens key: HKLM\system\wpa\tabletpc
Opens key: HKLM\system\wpa\mediacenter

Opens key: HKLM\software\microsoft\windows nt\currentversion\appcompatflags\layers
Opens key: HKCU\software\microsoft\windows nt\currentversion\appcompatflags\layers

Opens key: HKLM\software\microsoft\windows

nt\currentversion\appcompatflags\custom\au\_.exe

Opens key: HKLM\software\policies\microsoft\windows\safer\levelobjects

Opens key: HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\paths

Opens key:

be2efd2c1a33}

Opens key: HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes

Opens key:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ hashes \ \{349d35ab-37b5-462f-9b89-edd5fbde 1328\}$ 

Opens key:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes\{7fb9cd2e-3076-4df9-a57bb813f72dbb91} Opens key:

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Opens key:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\urlzones
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Opens key:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers\262144\paths
 Opens key:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers\262144\hashes
 Opens key:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers\262144\urlzones

Opens key: HKCU\software\policies\microsoft\windows\safer\codeidentifiers\0\paths
Opens key: HKCU\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes
Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\0\urlzones
 Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\4096\paths
 Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\4096\hashes
Opens key:

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 Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\131072\urlzones
Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\262144\paths
 Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\262144\hashes
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HKCU\software\policies\microsoft\windows\safer\codeidentifiers\262144\urlzones

Opens key: HKCU\software\microsoft\windows\currentversion\explorer\shell folders
Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\au\_.exe

Opens key: HKLM\software\microsoft\ctf\compatibility\au\_.exe

Opens key:

HKLM\software\microsoft\windows\currentversion\shellcompatibility\applications\au\_.exe

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\au\_.exe\rpcthreadpoolthrottle

Opens key: HKLM\software\link-assistant.com\seopowersuite

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\langdll.dll

Opens key: HKLM\software\microsoft\windows nt\currentversion\imm

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\msctfime.ime

Opens key: HKCU\software\microsoft\ctf

Opens key: HKLM\software\microsoft\ctf\systemshared

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\uxtheme.dll

Opens key: HKCU\software\microsoft\windows\currentversion\thememanager

Opens key: HKCU\software\microsoft\ctf\langbaraddin\
Opens key: HKLM\software\microsoft\ctf\langbaraddin\

Queries value: HKLM\system\currentcontrolset\control\terminal server[tsappcompat]

Queries value:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers[transparentenabled]

Queries value: HKLM\software\microsoft\windows nt\currentversion\winlogon[leaktrack]

Queries value: HKLM\system\currentcontrolset\control\session manager[safedllsearchmode]

Queries value: HKLM\software\microsoft\windows nt\currentversion\gre\_initialize[disablemetafiles]
Queries value: HKLM\software\microsoft\windows

nt\currentversion\compatibility32[57112dcee40c362f4c3938e2b4d9e16f]

Queries value: HKLM\software\microsoft\windows nt\currentversion\ime

compatibility[57112dcee40c362f4c3938e2b4d9e16f]

Queries value: HKLM\software\microsoft\windows nt\currentversion\windows[appinit\_dlls]

Queries value: HKCU\control panel\desktop[multiuilanguageid]
Queries value: HKCU\control panel\desktop[smoothscroll]

Queries value:

HKCU\software\microsoft\windows\currentversion\explorer\advanced[enableballoontips]

Queries value: HKLM\system\currentcontrolset\control\session

manager[criticalsectiontimeout]

Queries value: HKLM\software\microsoft\ole[rwlockresourcetimeout]

Queries value: HKCR\interface[interfacehelperdisableall]

Queries value: HKCR\interface[interfacehelperdisableallforole32]
Queries value: HKCR\interface[interfacehelperdisabletypelib]
Queries value: HKCR\interface\{00020400-0000-0000-c000-

00000000046}[interfacehelperdisableall]

Queries value: HKCR\interface\{00020400-0000-0000-c000-

00000000046}[interfacehelperdisableallforole32]

Queries value: HKLM\system\setup[systemsetupinprogress]

Queries value: HKLM\software\microsoft\ctf\systemshared[cuas]

Queries value: HKCU\keyboard layout\toggle[language hotkey]

Queries value: HKCU\keyboard layout\toggle[hotkey]

Queries value: HKCU\keyboard layout\toggle[layout hotkey]

Queries value: HKLM\software\microsoft\ctf[enableanchorcontext]

Queries value:

 $\label{lem:hkcu} \begin{tabular}{ll} HKCU \software \mbox{$m$icrosoft \windows \current version \policies \explorer [nonethood] } \end{tabular}$ 

Queries value:

HKCU\software\microsoft\windows\currentversion\policies\explorer[nopropertiesmycomputer]

Queries value:

HKCU\software\microsoft\windows\currentversion\policies\explorer[nointerneticon]

Queries value:

HKCU\software\microsoft\windows\currentversion\policies\explorer[nocommongroups]

Queries value:

 $\label{thm:local_equation} \begin{tabular}{l}{HKCU} software \verb|\microsoft| windows \verb|\currentversion| policies \verb|\explorer| [no control panel] \\$ 

Oueries value:

Queries value: HKCR\clsid\{20d04fe0-3aea-1069-a2d8-08002b30309d}\inprocserver32[]

Queries value: HKLM\system\wpa\pnp[seed]
Queries value: HKLM\system\setup[osloaderpath]
Queries value: HKLM\system\setup[systempartition]

Queries value: HKLM\software\microsoft\windows\currentversion\setup[sourcepath]

Queries value:

 $\label{lem:hklm} \verb+KLM\software\microsoft\windows\currentversion\setup[servicepacksourcepath]$ 

Queries value:

HKLM\software\microsoft\windows\currentversion\setup[servicepackcachepath]

Queries value: HKLM\software\microsoft\windows\currentversion\setup[drivercachepath]

Queries value:HKLM\software\microsoft\windows\currentversion[devicepath]Queries value:HKLM\software\microsoft\windows\currentversion\setup[loglevel]Queries value:HKLM\software\microsoft\windows\currentversion\setup[logpath]

Queries value:

HKLM\system\currentcontrolset\control\computername\activecomputername[computername]

Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[hostname]

Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[domain]

Queries value: HKLM\software\microsoft\rpc[maxrpcsize]

Queries value:

 $HKCU \setminus software \setminus irrent version \setminus explorer \setminus mount points 2 \setminus cpc \setminus volume \setminus \{f90255c2-6bc4-f9025c2-6bc4-f9025c2-6bc4$ 

```
11e3-9fc7-806d6172696f}[data]
 Queries value:
HKCU\software\microsoft\windows\currentversion\explorer\mountpoints2\cpc\volume\{f90255c2-6bc4-
11e3-9fc7-806d6172696f}[generation]
                        HKCR\drive\shellex\folderextensions\{fbeb8a05-beee-4442-804e-
 Oueries value:
409d6c4515e9}[drivemask]
 Oueries value:
Oueries value:
                        HKCU\software\microsoft\windows\currentversion\explorer[shellstate]
 Queries value:
HKCU\software\microsoft\windows\currentversion\policies\explorer[forceactivedesktopon]
 Oueries value:
HKCU\software\microsoft\windows\currentversion\policies\explorer[noactivedesktop]
 Queries value:
HKCU\software\microsoft\windows\currentversion\policies\explorer[nowebview]
 Queries value:
HKCU\software\microsoft\windows\currentversion\policies\explorer[classicshell]
 Oueries value:
HKCU\software\microsoft\windows\currentversion\policies\explorer[separateprocess]
 Queries value:
HKCU\software\microsoft\windows\currentversion\policies\explorer[nonetcrawling]
 Oueries value:
HKCU\software\microsoft\windows\currentversion\policies\explorer[nosimplestartmenu]
 Oueries value:
                        HKCU\software\microsoft\windows\currentversion\explorer\advanced[hidden]
 Queries value:
Oueries value:
HKCU\software\microsoft\windows\currentversion\explorer\advanced[hidefileext]
 Queries value:
HKCU\software\microsoft\windows\currentversion\explorer\advanced[dontprettypath]
 Oueries value:
HKCU\software\microsoft\windows\currentversion\explorer\advanced[showinfotip]
HKCU\software\microsoft\windows\currentversion\explorer\advanced[hideicons]
 Oueries value:
HKCU\software\microsoft\windows\currentversion\explorer\advanced[mapnetdrvbtn]
 Oueries value:
HKCU\software\microsoft\windows\currentversion\explorer\advanced[webview]
                        HKCU\software\microsoft\windows\currentversion\explorer\advanced[filter]
 Oueries value:
 Oueries value:
HKCU\software\microsoft\windows\currentversion\explorer\advanced[showsuperhidden]
 Oueries value:
HKCU\software\microsoft\windows\currentversion\explorer\advanced[separateprocess]
 Oueries value:
HKCU\software\microsoft\windows\currentversion\explorer\advanced[nonetcrawling]
 Queries value:
                        HKCR\directory[docobject]
 Queries value:
                        HKCR\directory[browseinplace]
 Queries value:
                        HKCR\directory[isshortcut]
 Queries value:
                        HKCR\directory[alwaysshowext]
 Queries value:
                        HKCR\directory[nevershowext]
 Queries value:
                        manager[pendingfilerenameoperations2]
 Oueries value:
                        HKLM\system\currentcontrolset\control\session
manager[pendingfilerenameoperations]
 Queries value:
                        HKLM\system\currentcontrolset\control\session
manager[safeprocesssearchmode]
                        HKLM\system\currentcontrolset\control\session
 Queries value:
manager\appcompatibility[disableappcompat]
                        HKLM\system\wpa\mediacenter[installed]
 Queries value:
 Queries value:
HKLM\software\policies\microsoft\windows\safer\codeidentifiers[authenticodeenabled]
                        HKLM\software\policies\microsoft\windows\safer\codeidentifiers[levels]
 Oueries value:
 Oueries value:
HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\paths\{dda3f824-d8cb-441b-834d-
be2efd2c1a33}[itemdata]
 Oueries value:
HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\paths\{dda3f824-d8cb-441b-834d-
be2efd2c1a33}[saferflags]
 Oueries value:
HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes\{349d35ab-37b5-462f-9b89-
edd5fbde1328}[itemdata]
```

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ hashes \ \{349d35ab-37b5-462f-9b89-edd5fbde 1328\} \ [hashalg]$ 

Oueries value:

Queries value:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ hashes \ \{349d35ab-37b5-462f-9b89-edd5fbde 1328\} [itemsize]$ 

Queries value:

 $HKLM \setminus software \setminus policies \setminus microsoft \setminus windows \setminus safer \setminus code identifiers \setminus 0 \setminus safer \setminus sa$ 

Oueries value:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ hashes \ \{7fb9cd2e-3076-4df9-a57b-b813f72dbb91\} [itemdata]$ 

Queries value:

Oueries value:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ hashes \ \{7fb9cd2e-3076-4df9-a57b-b813f72dbb91\} \ [itemsize]$ 

Queries value:

Queries value:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ hashes \ \{81d1fe15-dd9d-4762-b16d-7c29ddecae3f\} [itemdata]$ 

Oueries value:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ hashes \ \{81d1fe15-dd9d-4762-b16d-7c29ddecae3f\} \ [hashalg]$ 

Queries value:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ hashes \ \{81d1fe15-dd9d-4762-b16d-7c29ddecae3f\} \ [itemsize]$ 

Oueries value:

 $\label{thm:local-bound} $HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes\{81d1fe15-dd9d-4762-b16d-7c29ddecae3f}\[saferflags\]$ 

Oueries value:

 $HKLM \software \policies \microsoft \windows \safer \code identifiers \noindent \noi$ 

Queries value:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes\{94e3e076-8f53-42a5-8411-085bcc18a68d}[hashalg]

Queries value:

 $\label{lem:hklmsoftware} HKLM software \policies \microsoft \windows \safer \code identifiers \oldshes \{94e3e076-8f53-42a5-8411-085bcc18a68d} [itemsize]$ 

Queries value:

 $\label{thm:local-bound} HKLM \software \policies \microsoft \windows \safer \code identifiers \oldshes \{94e3e076-8f53-42a5-8411-085bcc18a68d\} [saferflags]$ 

Oueries value:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ hashes \ \{dc971ee5-44eb-4fe4-ae2e-b91490411bfc\} [itemdata]$ 

Queries value:

 $\label{lem:hklm} HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes\{dc971ee5-44eb-4fe4-ae2e-b91490411bfc}\ [hashalg]$ 

Queries value:

 $\label{lem:hklmsoftware policies microsoft windows safer code identifiers \verb|0| hashes | {dc971ee5-44eb-4fe4-ae2e-b91490411bfc}[itemsize] \\$ 

Queries value:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ hashes \ \{dc971ee5-44eb-4fe4-ae2e-b91490411bfc\} \ [saferflags]$ 

Queries value:

 $HKLM \setminus software \setminus policies \setminus microsoft \setminus windows \setminus safer \setminus code identifiers [default level]$ 

Queries value:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers[policyscope]

Queries value: HKCU\software\microsoft\windows\currentversion\explorer\shell

folders[cache] Queries value:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers[logfilename]

Queries value: HKLM\software\microsoft\windows nt\currentversion\compatibility32[au\_] 
Queries value: HKLM\software\microsoft\windows nt\currentversion\ime compatibility[au\_]

Queries value: HKLM\software\microsoft\windows nt\currentversion\imm[ime file]
Queries value: HKCU\software\microsoft\ctf[disable thread input manager]

Queries value: HKCU\software\microsoft\windows\currentversion\thememanager[compositing]

Queries value: HKCU\control panel\desktop[lamebuttontext]
Sets/Creates value: HKLM\system\currentcontrolset\control\session

manager[pendingfilerenameoperations]

Value changes: HKLM\software\microsoft\cryptography\rng[seed]

Value changes:

HKCU\software\microsoft\windows\currentversion\explorer\mountpoints2\{f90255c2-6bc4-11e3-9fc7-806d6172696f}[baseclass] Value changes: HKLM\system\currentcontrolset\control\session manager[pendingfilerenameoperations]