# Malware Analysis Appliance by Blue Coat Systems, Inc.

Task Details

Host: mag2, Sample ID: 2, Task ID: 6

Task ID: 6 Risk Level: 6

Date Processed: 2016-04-28 12:46:39 (UTC)

Processing Time: 62.45 seconds
Virtual Environment: IntelliVM

Execution Arguments: "c:\windows\temp\21ffe4bfc0cb2087b85497c869d0c07d.exe"

Sample ID: 2
Type: basic
Owner: admin

Label: 21ffe4bfc0cb2087b85497c869d0c07d

Date Added: 2016-04-28 12:44:49 (UTC)

File Type: PE32:win32:gui File Size: 145181 bytes

MD5: 21ffe4bfc0cb2087b85497c869d0c07d

SHA256: b5383369e2244545951f61267aa28618b2130fa76d15d5ebd3760163065f6b86

Description: None

### Pattern Matching Results

6 Renames file on boot

2 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\21ffe4bfc0cb2087b85497c869d0c07d.exe

["c:\windows\temp\21ffe4bfc0cb2087b85497c869d0c07d.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\21ffe4bfc0cb2087b85497c869d0c07d.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.IDH
Creates mutex: \BaseNamedObjects\MSCTF.Shared.MUTEX.ECD

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

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

### File System Events

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

Creates: C:\Documents and Settings\Admin\Local Settings\Temp\nsu1.tmp
Creates: C:\Documents and Settings\Admin\Local Settings\Temp\nso2.tmp
Creates: C:\Documents and Settings\Admin\Local Settings\Temp\~nsu.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\nsq3.tmp

Creates: C:\Documents and Settings\Admin\Local Settings\Temp\nsu5.tmp
Creates: C:\Documents and Settings\Admin\Local Settings\Temp\nsu5.tmp

Creates: C:\DOCUME~1

```
C:\DOCUME~1\Admin
 Creates:
                          C:\DOCUME~1\Admin\LOCALS~1
 Creates:
                          C:\DOCUME~1\Admin\LOCALS~1\Temp
 Creates:
 Creates:
                          C:\Documents and Settings\Admin\Local
Settings\Temp\nsu5.tmp\ioSpecial.ini
                          C:\Documents and Settings\Admin\Local Settings\Temp\nsu5.tmp\modern-
 Creates:
wizard.bmp
                          C:\Documents and Settings\Admin\Local
 Creates:
Settings\Temp\nsu5.tmp\InstallOptions.dll
                          C:\DOCUME~1\Admin\LOCALS~1\Temp\nsu5.tmp\InstallOptions.dll
 Creates:
                          C:\WINDOWS\Prefetch\21FFE4BFC0CB2087B85497C869D0C-352F3B48.pf
 Opens:
 Opens:
                          C:\Documents and Settings\Admin
 Opens:
                          C:\WINDOWS\WinSxS\x86_Microsoft.Windows.Common-
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\21ffe4bfc0cb2087b85497c869d0c07d.exe
 Opens:
 Opens:
                          C:\WINDOWS\system32\imm32.dll
 Opens:
                          C:\WINDOWS\system32\shell32.dll
 Opens:
                          C:\WINDOWS\system32\SHELL32.dll.124.Manifest
 Opens:
                          C:\WINDOWS\system32\SHELL32.dll.124.Config
                          C:\WINDOWS\WindowsShell.Manifest
 Opens:
                          C:\WINDOWS\WindowsShell.Config
 Opens:
 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:
                          C:\
 Opens:
                          C:\Documents and Settings
 Opens:
                          C:\Documents and Settings\Admin\Local Settings\Temp\nsu1.tmp
                          C:\WINDOWS\Temp\da1838b9-f995-4790-b9fd-b61133cff5c5
 Opens:
 Opens:
                          C:\Documents and Settings\Admin\Local Settings\Temp
 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
 Opens:
                          C:\WINDOWS\system32\apphelp.dll
                          C:\WINDOWS\AppPatch\sysmain.sdb
 Opens:
 Opens:
                          C:\WINDOWS\AppPatch\systest.sdb
                          C:\Documents and Settings\Admin\Local Settings
 Opens:
                          \label{locals-1} C: \verb|\DOCUME-1| Admin \verb|\LOCALS-1| Temp \verb|\-nsu.tmp| Au_. exe. Manifest \\
 Opens:
 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
 Opens:
                          C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Fu_.exe
 Opens:
                          C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Gu_.exe
 Opens:
                          C:\WINDOWS\Prefetch\AU_.EXE-34E9686B.pf
 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
 Opens:
                          C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Ku_.exe
 Opens:
                          \label{locals-1} 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\nu..exe
 Opens:
                          \label{locals-1} 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
                          C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Ru_.exe
 Opens:
 Opens:
                          C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Su_.exe
 Opens:
                          C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Tu_.exe
 Opens:
                          \label{locals-1} C:\DOCUME~1\Admin\LOCALS~1\Temp\-nsu.tmp\Uu\_.exe
 Opens:
                          C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Vu_.exe
 Opens:
                          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
 Opens:
                          C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp\Zu_.exe
 Opens:
                          C:\DOCUME~1\Admin\LOCALS~1\Temp\~nsu.tmp
 Opens:
                          C:\Documents and Settings\Admin\Local Settings\Temp\nsq3.tmp
                          C:\WINDOWS
 Opens:
 Opens:
                          C:\WINDOWS\system32\riched20.dll
 Opens:
                          C:\WINDOWS\system32\MSCTFIME.IME
 Opens:
                          C:\WINDOWS\system32\uxtheme.dll
 Opens:
                          C:\Documents and Settings\Admin\Local Settings\Temp\nsu5.tmp
```

Opens: C:\Documents and Settings\Admin\Local

Settings\Temp\nsu5.tmp\ioSpecial.ini

Opens: C:\Documents and Settings\Admin\Local

Settings\Temp\nsu5.tmp\InstallOptions.dll

Opens: C:\WINDOWS\Fonts\sserife.fon

Opens: C:\Documents and Settings\Admin\Local Settings\Temp\nsu5.tmp\modern-

wizard.bmp

Writes to: C:\Documents and Settings\Admin\Local Settings\Temp\nsk4.tmp

Writes to: C:\Documents and Settings\Admin\Local

Settings\Temp\nsu5.tmp\ioSpecial.ini

Writes to: C:\Documents and Settings\Admin\Local Settings\Temp\nsu5.tmp\modern-

wizard.bmp

Writes to: C:\Documents and Settings\Admin\Local

Settings\Temp\nsu5.tmp\InstallOptions.dll

Reads from: C:\WINDOWS\Temp\21ffe4bfc0cb2087b85497c869d0c07d.exe

Reads from: C:\Documents and Settings\Admin\Local Settings\Temp\nso2.tmp

 $\label{lem:condition} {\tt C:\Documents\ and\ Settings\Admin\Local\ Settings\Temp\-nsu.tmp\Au\_.exe} \\$ 

Reads from: C:\Documents and Settings\Admin\Local Settings\Temp\nsk4.tmp

Reads from: C:\Documents and Settings\Admin\Local

Settings\Temp\nsu5.tmp\ioSpecial.ini

Deletes: C:\Documents and Settings\Admin\Local Settings\Temp\nsu1.tmp
Deletes: C:\Documents and Settings\Admin\Local Settings\Temp\nsq3.tmp
Deletes: C:\Documents and Settings\Admin\Local Settings\Temp\nsu5.tmp

### Windows Registry Events

Creates key

 $\label{thm:local-continuous} HKCU software \microsoft \windows \current version \explorer \mountpoints 2 \ \{f90255c2-6bc4-11e3-9fc7-806d6172696f\} \ \mbox{}$ 

000d01720901}\

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

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

options\21ffe4bfc0cb2087b85497c869d0c07d.exe

Opens key: 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

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

options\gdi32.dll

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

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

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

options\kernel32.dll

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

options\secur32.dll

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

options\rpcrt4.dll

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

options\advapi32.dll

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

options\msvcrt.dll

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

options\shlwapi.dll

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

options\shell32.dll

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

options\comctl32.dll

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

options\ole32.dll

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

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
Opens key: HKLM\software\microsoft\windows nt\currentversion\compatibility32
Opens key: HKLM\software\microsoft\windows nt\currentversion\ime compatibility

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

Opens key: HKLM\

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

Opens key: HKLM\system\setup

Opens key: HKCU\

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

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-c000-c000-00000000046}

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

options\msctf.dll

Opens key:

HKLM\software\microsoft\ctf\compatibility\21ffe4bfc0cb2087b85497c869d0c07d.exe

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

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:

 $HKLM \setminus software \setminus icrosoft \setminus windows \setminus current version \setminus shell compatibility \setminus applications \setminus 21ffe 4bfc 0cb 2087b85497c869d0 c07d. exercise the shell compatibility is application in the shell compatibility is application of the shell com$ 

Opens key:

HKLM\software\microsoft\windows\currentversion\shellcompatibility\objects\{20d04fe0-3aea-1069-

a2d8-08002b30309d}

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\currentcontrolset\control\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

Opens key:

 $\label{lem:hkcu} \mbox{\currentversion} \mbox{\currentversion-explorer-mountpoints2-cpc-volume}$ 

Opens key:

11e3-9fc7-806d6172696f}\

Opens key:  ${\tt HKCU \setminus software \setminus classes \setminus drive \setminus shellex \setminus folder extensions}$ 

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:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ paths \ \{dda3f824-d8cb-441b-834d-48cb-441b-834d-86cb-441b-86cb-4606-86cb-4606-86cb-4606-86cb-4606-86cb-460606-86cb-4606-86$ 

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:

Opens key.

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

Opens key:

 $\label{lem:hklm} HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes\{81d1fe15-dd9d-4762-b16d-7c29ddecae3f\}}$ 

Opens key:

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

Opens key:

 $\label{thm:local-condition} HKLM \software \policies \microsoft \windows \safer \code identifiers \oldsymbol{local-code} \end{time} Add \policies \microsoft \windows \safer \code identifiers \oldsymbol{local-code} \policies \microsoft \micr$ 

Opens kev:

 $\label{thm:local_hammon_hammon} \begin{tabular}{ll} HKLM \label{thm:local_hammon} & \begin{tabular}{ll} HKLM \label{thm:$ 

Opens key:

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

 $HKLM \setminus software \setminus policies \setminus microsoft \setminus windows \setminus safer \setminus code identifiers \setminus 4096 \setminus hashes$ 

Opens key: HKLM\software\policies\microsoft\windows\safer\codeidentifiers\4096\urlzones

Opens key: HKLM\software\policies\microsoft\windows\safer\codeidentifiers\65536\paths

Opens key: HKLM\software\policies\microsoft\windows\safer\codeidentifiers\65536\hashes

Opens key: HKLM\software\policies\microsoft\windows\safer\codeidentifiers\65536\urlzones Opens key:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers\131072\paths

Opens key: HKLM\software\policies\microsoft\windows\safer\codeidentifiers\131072\hashes

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

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

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

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

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:

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

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\65536\paths
 Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\65536\hashes

Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\65536\urlzones

Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\131072\paths

Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\131072\hashes

Opens kev

 $HKCU \setminus software \setminus policies \setminus microsoft \setminus windows \setminus safer \setminus code identifiers \setminus 131072 \setminus urlzones$ 

Opens key:

HKCU\software\policies\microsoft\windows\safer\codeidentifiers\262144\paths

Opens key:

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

Opens key:

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\microsoft\windows nt\currentversion\image file execution

options\riched20.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: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\comdlg32.dll

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

options\installoptions.dll

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\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[21ffe4bfc0cb2087b85497c869d0c07d]

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

 $compatibility \verb|[21ffe4bfc0cb2087b85497c869d0c07d]|\\$ 

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

Queries value: HKLM\system\setup[systemsetupinprogress]
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\{00020400-0000-0000-0000-

00000000046}[interfacehelperdisableall]

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

00000000046}[interfacehelperdisableallforole32]

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:

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

Oueries value:

 $\label{thm:linear} \begin{tabular}{ll} HKCU \software \microsoft \windows \current version \policies \explorer \cite{thm:linear} no properties my computer \cite{thm:linear} and \cite{thm:linear} and \cite{thm:linear} no properties my computer \cite{thm:linear} and \cite{thm:linear} no properties my computer \cite{thm:linear} and \cite{thm:linear} no properties my computer \cite{thm:linear} no properties my comput$ 

Queries value: HKCU\software\microsoft\windows\currentversion\policies\explorer[nointerneticon] HKCU\software\microsoft\windows\currentversion\policies\explorer[nocommongroups] Oueries value: HKCU\software\microsoft\windows\currentversion\policies\explorer[nocontrolpanel] Oueries value:  $HKCU \ software \ microsoft \ windows \ current version \ policies \ explorer [noset folders]$ HKCR\clsid\{20d04fe0-3aea-1069-a2d8-08002b30309d}\inprocserver32[] Oueries value: Queries value: HKLM\system\wpa\pnp[seed] Queries value: HKLM\system\setup[osloaderpath] Queries value: HKLM\system\setup[systempartition] Oueries value: HKLM\software\microsoft\windows\currentversion\setup[sourcepath] Queries value: HKLM\software\microsoft\windows\currentversion\setup[servicepacksourcepath] Queries value: HKLM\software\microsoft\windows\currentversion\setup[servicepackcachepath] HKLM\software\microsoft\windows\currentversion\setup[drivercachepath] Oueries value: 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] Oueries value: HKLM\system\currentcontrolset\control\computername\activecomputername[computername] Oueries 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\software\microsoft\windows\currentversion\explorer\mountpoints2\cpc\volume\{f90255c2-6bc4-11e3-9fc7-806d6172696f}[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: HKCU\software\microsoft\windows\currentversion\policies\explorer[dontshowsuperhidden] 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] Oueries value: HKCU\software\microsoft\windows\currentversion\policies\explorer[nowebview] Oueries value: HKCU\software\microsoft\windows\currentversion\policies\explorer[classicshell] Queries value: HKCU\software\microsoft\windows\currentversion\policies\explorer[separateprocess] Oueries value: HKCU\software\microsoft\windows\currentversion\policies\explorer[nonetcrawling] HKCU\software\microsoft\windows\currentversion\policies\explorer[nosimplestartmenu]  $\label{lem:hkcu} \begin{tabular}{ll} HKCU \software \microsoft \windows \current version \explorer \advanced \cite{linear} hidden \end{tabular}$ Queries value: Oueries value: HKCU\software\microsoft\windows\currentversion\explorer\advanced[showcompcolor] Queries value: HKCU\software\microsoft\windows\currentversion\explorer\advanced[hidefileext] Oueries value: HKCU\software\microsoft\windows\currentversion\explorer\advanced[dontprettypath] HKCU\software\microsoft\windows\currentversion\explorer\advanced[showinfotip] Oueries value: HKCU\software\microsoft\windows\currentversion\explorer\advanced[hideicons] HKCU\software\microsoft\windows\currentversion\explorer\advanced[mapnetdrvbtn] Oueries value: HKCU\software\microsoft\windows\currentversion\explorer\advanced[webview] Queries value: HKCU\software\microsoft\windows\currentversion\explorer\advanced[filter] Queries value:  $\label{thm:linear} \begin{tabular}{ll} HKCU \software \verb|\microsoft| windows \verb|\currentversion| explorer \verb|\advanced| [shows uper hidden] \\ \end{tabular}$ 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: HKLM\system\currentcontrolset\control\session

manager[pendingfilerenameoperations2]

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

manager[pendingfilerenameoperations]

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

manager[safeprocesssearchmode]

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

manager\appcompatibility[disableappcompat]

Queries value: HKLM\system\wpa\mediacenter[installed]

Queries value:

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

Queries value: HKLM\software\policies\microsoft\windows\safer\codeidentifiers[levels]

Queries value:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ 0 \ paths \ \{dda3f824-d8cb-441b-834d-be2efd2c1a33\} [itemdata]$ 

Queries value:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\paths\{dda3f824-d8cb-441b-834d-be2efd2c1a33}[saferflags]

Queries value:

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

Oueries value:

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

Queries value:

Queries value:

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

Oueries value:

 $\label{thm:local-condition} HKLM \software \policies \microsoft \windows \safer \code identifiers \oldsymbol{local-code} \hbegin{center} 4df9-a57b-b813f72dbb91\end{center} [itemdata]$ 

Queries value:

Queries value:

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

Queries value:

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

Queries value:

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

Queries value:

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

Oueries value:

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

Queries value:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes\{81d1fe15-dd9d-4762-b16d-7c29ddecae3f}[saferflags]

Queries value:

 $\label{thm:local_holds} $$HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes\{94e3e076-8f53-42a5-8411-085bcc18a68d}[itemdata]$ 

Queries value:

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

Queries value:

 $\label{thm:local-basis} HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes\{94e3e076-8f53-42a5-8411-085bcc18a68d}\[itemsize]$ 

Queries value:

 $\label{thm:local-bound} $$HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\hashes\{94e3e076-8f53-42a5-8411-085bcc18a68d}\[saferflags\]$ 

Queries value:

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

Queries value:

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

Queries value:

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

Queries value:

Queries value:

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

Oueries 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]

 $\label{thm:condition} Queries \ value: \\ HKCU \ software \ microsoft \ windows \ current version \ the memanager [compositing] \\$ 

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:

806d6172696f}[baseclass]

Value changes: HKLM\system\currentcontrolset\control\session

manager[pendingfilerenameoperations]