Malware Analysis Appliance by Blue Coat Systems, Inc.

Task Details

Host: mag2, Sample ID: 129, Task ID: 515

Task ID: 515 Risk Level: 6

Date Processed: 2016-04-28 13:01:20 (UTC)

Processing Time: 3.35 seconds
Virtual Environment: IntelliVM

Execution Arguments: "c:\windows\temp\adb62392bc0711707e58e70186cc4ac2.exe"

Sample ID: 129
Type: basic
Owner: admin

Label: adb62392bc0711707e58e70186cc4ac2

Date Added: 2016-04-28 12:45:03 (UTC)

File Type: PE32:win32:gui File Size: 10224 bytes

MD5: adb62392bc0711707e58e70186cc4ac2

SHA256: 2d34179da23d345fb5e9d241b34902c188fbf914f3985a7ffb3978dd9ff0287b

Description: None

Pattern Matching Results

4 Terminates process under Windows subfolder

6 Renames file on boot

Process/Thread Events

Creates process: C:\WIND0WS\Temp\adb62392bc0711707e58e70186cc4ac2.exe

["c:\windows\temp\adb62392bc0711707e58e70186cc4ac2.exe"]

Creates process: C:\WINDOWS\system32\schtasks.exe ["C:\WINDOWS\system32\schtasks.exe"

/Delete /TN EPUpdater /F]

Terminates process: C:\WINDOWS\Temp\adb62392bc0711707e58e70186cc4ac2.exe

Terminates process: C:\WINDOWS\system32\schtasks.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\ZonesCounterMutex

Creates mutex: \BaseNamedObjects\ZoneAttributeCacheCounterMutex

Creates mutex: \BaseNamedObjects\ZonesCacheCounterMutex

Creates mutex: \BaseNamedObjects\ZonesLockedCacheCounterMutex

Creates mutex: \BaseNamedObjects\SHIMLIB_LOG_MUTEX

Creates event: \BaseNamedObjects\userenv: User Profile setup event

Creates semaphore: \BaseNamedObjects\shell.{A48F1A32-A340-11D1-BC6B-00A0C90312E1} Creates semaphore: \BaseNamedObjects\shell.{210A4BA0-3AEA-1069-A2D9-08002B30309D} Creates semaphore: \BaseNamedObjects\shell.{7CB834F0-527B-11D2-9D1F-0000F805CA57}

File System Events

C:\Documents and Settings\Admin 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 Opens: C:\WINDOWS\WinSxS\x86_Microsoft.Windows.Common-Controls_6595b64144ccf1df_6.0.2600.5512_x-ww_35d4ce83 C:\WINDOWS\WinSxS\x86_Microsoft.Windows.Common-Opens: Controls_6595b64144ccf1df_6.0.2600.5512_x-ww_35d4ce83\comctl32.dll Opens: C:\WINDOWS\WindowsShell.Manifest Opens: C:\WINDOWS\WindowsShell.Config Opens: C:\WINDOWS\system32\comctl32.dll Opens: C:\WINDOWS\system32\comctl32.dll.124.Manifest Opens: C:\WINDOWS\system32\comctl32.dll.124.Config Opens: C:\WINDOWS\system32\rpcss.dl1 Opens: C:\WINDOWS\system32\MSCTF.dll Opens: C:\WINDOWS\system32\netapi32.dll Opens: C:\WINDOWS\system32\setupapi.dll Opens: C:\ C:\Documents and Settings Opens: Opens: C:\Documents and Settings\Admin\My Documents\desktop.ini Opens: C:\Documents and Settings\All Users C:\Documents and Settings\All Users\Documents\desktop.ini Opens: Opens: C:\WINDOWS\system32\clbcatq.dll Opens: C:\WINDOWS\system32\comres.dll Opens: C:\WINDOWS\Registration\R00000000007.clb Opens: C:\WINDOWS\system32\urlmon.dll Opens: C:\WINDOWS\system32\urlmon.dll.123.Manifest C:\WINDOWS\system32\urlmon.dll.123.Config Opens: Opens: C:\WINDOWS Opens: C:\WINDOWS\system32 Opens: C:\WINDOWS\system32\schtasks.exe Opens: C:\WINDOWS\system32\apphelp.dll Opens: C:\WINDOWS\AppPatch\sysmain.sdb Opens: C:\WINDOWS\AppPatch\systest.sdb Opens: C:\WINDOWS\system32\schtasks.exe.Manifest Opens: C:\WINDOWS\Temp\adb62392bc0711707e58e70186cc4ac2.exe Opens: C:\WINDOWS\Prefetch\SCHTASKS.EXE-OCBF6A11.pf Opens: C:\WINDOWS\system32\ws2 32.dll Opens: C:\WINDOWS\system32\ws2help.dll Opens: C:\WINDOWS\system32\shimeng.dll Opens: C:\WINDOWS\AppPatch\AcGenral.dll Opens: C:\WINDOWS\system32\winmm.dll Opens: C:\WINDOWS\system32\msacm32.dl1 Opens: C:\WINDOWS\system32\uxtheme.dll Opens: C:\WINDOWS\system32\winlogon.exe Opens: C:\WINDOWS\system32\xpsp2res.dll Opens: C:\WINDOWS\system32\mstask.dll Opens: C:\WINDOWS\system32\mstask.dll.2.Manifest Opens: C:\WINDOWS\system32\mstask.dll.2.Config Opens: C:\WINDOWS\system32\ntdsapi.dll

Opens: C:\WINDOWS\system32\dnsapi.dll

Opens: C:\WINDOWS\Tasks

Reads from: C:\Documents and Settings\Admin\My Documents\desktop.ini Reads from: C:\Documents and Settings\All Users\Documents\desktop.ini

Reads from: C:\WINDOWS\Registration\R00000000007.clb

Reads from: C:\WINDOWS\system32\schtasks.exe

Windows Registry Events

HKCU\software\microsoft\windows\currentversion\explorer\user shell Creates key: folders

Creates key: HKCU\software\microsoft\windows\currentversion\explorer\shell folders

Creates key:

 $\label{lem:hkcu} HKCU \software \microsoft \windows \current version \explorer \mountpoints 2 \f 90255c2-6bc4-11e3-9fc7-806d6172696f \) \\$

Creates key: HKLM\software\microsoft\windows\currentversion\explorer\user shell

folders

Creates key: HKLM\software\microsoft\windows\currentversion\explorer\shell folders

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

Creates key: HKCU\software\microsoft\multimedia\audio

Creates key: HKCU\software\microsoft\multimedia\audio compression manager\
Creates key: HKCU\software\microsoft\multimedia\audio compression manager\msacm
Creates key: HKCU\software\microsoft\multimedia\audio compression manager\priority

v4.00

Creates key: HKLM\system\currentcontrolset\services\tcpip\parameters

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

options\adb62392bc0711707e58e70186cc4ac2.exe

Opens key: HKLM\system\currentcontrolset\control\terminal server

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\winlogon

Opens key: HKLM\

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

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\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\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\gdi32.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\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\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:

HKLM\software\microsoft\windows\currentversion\sidebyside\assemblystorageroots

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

options\comctl32.dll

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

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

options\ole32.dll

Opens key: HKLM\software\microsoft\ole

Opens key: HKCR\interface

Opens key: HKCR\interface\{00020400-0000-0000-0000000000046}

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

options\msctf.dll

Opens key:

HKLM\software\microsoft\ctf\compatibility\adb62392bc0711707e58e70186cc4ac2.exe

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

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

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

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

options\netapi32.dll

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\adb62392bc0711707e58e70186cc4ac2.exe\rpcthreadpoolthrottle

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

Opens key: HKLM\system\currentcontrolset\control\computername\activecomputername
Opens key: HKLM\software\microsoft\windows\currentversion\policies\explorer
Opens key: HKCU\software\microsoft\windows\currentversion\policies\explorer

Opens key:

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: 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\microsoft\windows\currentversion\explorer\fileexts
Opens key: HKCU\software\microsoft\windows\currentversion\explorer\fileexts\.exe

Opens key: HKCU\software\classes\.exe

Opens key: HKCR\.exe

Opens key: HKCU\software\classes\exefile

Opens key: HKCR\exefile

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

Opens key: HKCR\exefile\curver
Opens key: HKCR\exefile\

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

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

Opens key: HKCR\exefile\shellex\iconhandler

Opens key: HKCU\software\classes\systemfileassociations\.exe

Opens key: HKCR\systemfileassociations\.exe

Opens key: HKCU\software\classes\systemfileassociations\application

Opens key: HKCR\systemfileassociations\application
Opens key: HKCU\software\classes\exefile\clsid

Opens key: HKCR\exefile\clsid
Opens key: HKCU\software\classes*

Opens key: HKCR*

Opens key: HKCU\software\classes*\clsid

Opens key: HKCR*\clsid

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\services\tcpip\parameters

Opens key: HKLM\software\policies\microsoft\system\dnsclient

Opens key:

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

Opens key:

 $\label{thm:local-continuous} HKCU software \end{ff90255c2-6bc4-11e3-9fc7-806d6172696f} \\ \\$

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\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\software\microsoft\windows\currentversion\explorer\shellexecutehooks

Opens key: HKCU\software\classes\clsid\{aeb6717e-7e19-11d0-97ee-

00c04fd91972}\inprocserver32

Opens key: HKCR\clsid\{aeb6717e-7e19-11d0-97ee-00c04fd91972}\inprocserver32

Opens key: HKLM\software\microsoft\windows\currentversion\policies\associations

Opens key: HKCU\software\microsoft\windows\currentversion\policies\associations

Opens key: HKCU\software\classes\.ade

Opens key: HKCR\.ade

Opens key: HKCU\software\classes\.adp

Opens key: HKCR\.adp

Opens key: HKCU\software\classes\.app

Opens key: HKCR\.app

Opens key: HKCU\software\classes\.asp

Opens key: HKCR\.asp

Opens key: HKCU\software\classes\.bas

Opens key: HKCR\.bas

Opens key: HKCU\software\classes\.bat

Opens key: HKCR\.bat

Opens key: HKCU\software\classes\.cer

Opens key: HKCR\.cer

Opens key: HKCU\software\classes\.chm

Opens key: HKCR\.chm

Opens key: HKCU\software\classes\.cmd

Opens key: HKCR\.cmd

Opens key: HKCU\software\classes\.com

Opens key: HKCR\.com

Opens key: HKCU\software\classes\.cpl

Opens key: HKCR\.cpl

Opens key: HKCU\software\classes\.crt

Opens key: HKCR\.crt

Opens key: HKCU\software\classes\.csh

Opens key: HKCR\.csh

Opens key: HKLM\software\microsoft\com3

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

options\comres.dll

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

options\oleaut32.dll

Opens key: HKLM\software\microsoft\oleaut

Opens key: HKLM\software\microsoft\oleaut\userera

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

options\version.dll

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

options\clbcatq.dll

Opens key: HKLM\software\microsoft\com3\debug

Opens key: HKLM\software\classes

Opens key: HKU\
Opens key: HKCR\clsid

Opens key: HKCU\software\classes\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}

Opens key: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}
Opens key: HKCU\software\classes\clsid\{7b8a2d94-0ac9-11d1-896c-

00c04fb6bfc4}\treatas

Opens key: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}\treatas
Opens key: HKCU\software\classes\clsid\{7b8a2d94-0ac9-11d1-896c-

00c04fb6bfc4}\inprocserver32

Opens key: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}\inprocserver32

Opens key: HKCU\software\classes\clsid\{7b8a2d94-0ac9-11d1-896c-

00c04fb6bfc4}\inprocserverx86

Opens key: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}\inprocserverx86

Opens key: HKCU\software\classes\clsid\{7b8a2d94-0ac9-11d1-896c-

00c04fb6bfc4}\localserver32

Opens key: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}\localserver32

Opens key: HKCU\software\classes\clsid\{7b8a2d94-0ac9-11d1-896c-

00c04fb6bfc4}\inprochandler32

Opens key: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}\inprochandler32

Opens key: HKCU\software\classes\clsid\{7b8a2d94-0ac9-11d1-896c-

00c04fb6bfc4}\inprochandlerx86

Opens key: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}\inprochandlerx86

Opens key: HKCU\software\classes\clsid\{7b8a2d94-0ac9-11d1-896c-

00c04fb6bfc4}\localserver

Opens key: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}\localserver

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

options\iertutil.dll

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

options\urlmon.dll

Opens key: HKCU\software\classes\protocols\name-space handler\

Opens key: HKCR\protocols\name-space handler

Opens key: HKCU\software\classes\protocols\name-space handler

Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet

settings

Opens key: HKLM\software\microsoft\windows\currentversion\internet settings
Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet

settings

Opens key: HKCU\software\microsoft\internet explorer\main\featurecontrol\feature_protocol_lockdown Opens key: HKLM\software\microsoft\internet explorer\main\featurecontrol\feature protocol lockdown

Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet

settings\

Opens key: HKLM\software\policies\microsoft\internet explorer\main\featurecontrol Opens key: HKCU\software\policies\microsoft\internet explorer\main\featurecontrol

Opens key: HKLM\software\microsoft\internet explorer\main\featurecontrol Opens key: HKCU\software\microsoft\internet explorer\main\featurecontrol

Opens key: HKCU\software\microsoft\internet

explorer\main\featurecontrol\feature_ignore_policies_zonemap_if_esc_enabled_kb918915

Opens key: HKLM\software\microsoft\internet

explorer\main\featurecontrol\feature_ignore_policies_zonemap_if_esc_enabled_kb918915

Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet

settings\zonemap\domains\

Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet

settings\zonemap\domains\

Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet

settings\zonemap\ranges\

Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet

settings\zonemap\ranges\

Opens key: HKCU\software\microsoft\internet explorer\main\featurecontrol\feature_unc_savedfilecheck
Opens key: HKLM\software\microsoft\internet explorer\main\featurecontrol\feature unc savedfilecheck

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

settings\zonemap\

Opens key: HKCU\software\microsoft\internet

explorer\main\featurecontrol\feature_zones_check_zonemap_policy_kb941001

Opens key: HKLM\software\microsoft\internet

explorer\main\featurecontrol\feature_zones_check_zonemap_policy_kb941001

Opens key: HKLM\software\policies
Opens key: HKCU\software\policies

Opens key: HKCU\software
Opens key: HKLM\software

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

settings\zonemap\ranges\

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

settings\zonemap\protocoldefaults\

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

settings\zonemap\domains\

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

settings\zonemap\domains\

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

settings\zonemap\domains\msn.com

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

settings\zonemap\domains\msn.com\related

Opens key: HKCU\software\microsoft\internet

explorer\main\featurecontrol\feature_use_ietldlist_for_domain_determination

Opens key: HKLM\software\microsoft\internet

explorer\main\featurecontrol\feature_use_ietldlist_for_domain_determination
 Opens key: HKCU\software\microsoft\internet explorer\ietld

Opens key: HKCU\software\microsoft\internet

explorer\main\featurecontrol\feature_initialize_urlaction_shellexecute_to_allow_kb936610

Opens key: HKLM\software\microsoft\internet

explorer\main\featurecontrol\feature_initialize_urlaction_shellexecute_to_allow_kb936610

Opens key: HKCU\software\microsoft\windows\currentversion\internet settings

Opens key: HKCU\software\microsoft\internet

explorer\main\featurecontrol\feature_http_username_password_disable

Opens key: HKLM\software\microsoft\internet

explorer\main\featurecontrol\feature_http_username_password_disable

Opens key: HKCU\software\microsoft\internet

explorer\main\featurecontrol\feature_allow_reverse_solidus_in_userinfo_kb932562

Opens key: HKLM\software\microsoft\internet

Opens key: HKLM\software\policies\microsoft\internet explorer\security

Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\
Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\0
Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\1
Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\2
Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\3
Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\3
Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\4

Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet

settings\zones\

Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet

settings\zones\

Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet

settings\zones\0

Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet

settings\zones\0

Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet

settings\zones\1 Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet settings\zones\1 HKLM\software\policies\microsoft\windows\currentversion\internet Opens key: settings\zones\2 HKCU\software\policies\microsoft\windows\currentversion\internet Opens key: settings\zones\2 HKLM\software\policies\microsoft\windows\currentversion\internet Opens key: settings\zones\3 Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet settings\zones\3 HKLM\software\policies\microsoft\windows\currentversion\internet Opens key: settings\zones\4 Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet settings\zones\4 Opens key: HKCU\software\microsoft\internet explorer\main\featurecontrol\feature_localmachine_lockdown Opens key: HKLM\software\microsoft\internet explorer\main\featurecontrol\feature_localmachine_lockdown HKLM\software\policies\microsoft\windows\currentversion\internet Opens key: settings\lockdown zones\ Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet settings\lockdown_zones\ HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\lockdown_zones\ HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\lockdown_zones\0 Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet settings\lockdown_zones\0 HKCU\software\policies\microsoft\windows\currentversion\internet Opens key: settings\lockdown zones\0 HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\lockdown_zones\1 HKLM\software\policies\microsoft\windows\currentversion\internet Opens key: settings\lockdown_zones\1 HKCU\software\policies\microsoft\windows\currentversion\internet Opens key: settings\lockdown zones\1 HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\lockdown_zones\2 HKLM\software\policies\microsoft\windows\currentversion\internet Opens key: settings\lockdown_zones\2 Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet settings\lockdown_zones\2 HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\lockdown_zones\3 Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet settings\lockdown_zones\3 HKCU\software\policies\microsoft\windows\currentversion\internet Opens key: settings\lockdown_zones\3 HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\lockdown_zones\4 Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet settings\lockdown_zones\4 HKCU\software\policies\microsoft\windows\currentversion\internet Opens key: settings\lockdown_zones\4 HKCU\software\microsoft\internet Opens key: explorer\main\featurecontrol\feature_zones_default_drive_intranet_kb941000 Opens key: HKLM\software\microsoft\internet explorer\main\featurecontrol\feature_zones_default_drive_intranet_kb941000 Opens key: HKCU\software\classes\exefile\shell Opens key: HKCR\exefile\shell Opens key: HKCU\software\classes\exefile\shell\open Opens key: HKCR\exefile\shell\open

Opens key: HKCU\software\classes\exefile\shell\open\command

Opens key: HKCR\exefile\shell\open\command

Opens key:

HKCU\software\microsoft\windows\currentversion\policies\explorer\restrictrun

Opens key: HKLM\software\microsoft\windows\currentversion\app paths\schtasks.exe

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Opens key: HKCR\applications\schtasks.exe

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

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

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

Opens key:

HKLM\software\policies\microsoft\windows\safer\codeidentifiers\0\paths\{dda3f824-d8cb-441b-834d-

be2efd2c1a33}

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

Opens key:

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Opens key:

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Opens key:

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Opens key:

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Opens key:

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Opens key:

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

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Opens key:

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 Opens key:

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 Opens kev:
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 Opens key:
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options\schtasks.exe
                         HKLM\software\microsoft\windows nt\currentversion\image file execution
 Opens key:
options\acgenral.dll
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 Opens key:
options\mpr.dll
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 Opens key:
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 Opens key:
                         HKLM\software\microsoft\windows nt\currentversion\image file execution
options\ws2_32.dll
                         HKLM\software\microsoft\windows nt\currentversion\image file execution
 Opens key:
options\shimeng.dll
 Opens key:
                         HKLM\software\microsoft\windows nt\currentversion\image file execution
options\winmm.dll
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options\ws2help.dll
Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution
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Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution
options\userenv.dll
Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

HKLM\system\currentcontrolset\control\mediaproperties\privateproperties\joystick\winmm
Opens key: HKLM\software\microsoft\audiocompressionmanager\drivercache

Opens key:

HKLM\software\microsoft\audiocompressionmanager\drivercache\msacm.imaadpcm

Opens key:

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Opens key: HKLM\system\currentcontrolset\control\mediaresources\acm
Opens key: HKLM\system\currentcontrolset\control\productoptions

Opens key: HKCU\software\microsoft\windows\currentversion\explorer\user shell

folders

Opens key: HKLM\software\policies\microsoft\windows\system

Opens key: HKCU\software\microsoft\windows\currentversion\thememanager
Opens key: HKLM\software\microsoft\ctf\compatibility\schtasks.exe

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

options\schtasks.exe\rpcthreadpoolthrottle

Opens key: HKLM\system\currentcontrolset\control\lsa

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

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options\comdlg32.dll

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options\dnsapi.dll

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

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options\mstask.dll

Opens key: HKLM\software\microsoft\schedulingagent

Opens key: HKLM\system\currentcontrolset\control\nls\locale

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Opens key: HKLM\system\currentcontrolset\control\nls\language groups

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

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

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

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Queries value:

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Queries value:

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Queries value:

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

Queries value:

 $\label{lem:hkcu} \begin{tabular}{ll} HKCU \software \microsoft \windows \current version \policies \explorer \cite{lem:hkcu} are \microsoft \windows \current \cite{lem:hkcu} are \microsoft \windows \windows \cite{lem:hkcu} are \microsoft \windows \windows \cite{lem:hkcu} are \microsoft \windows \$

Queries value:

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409d6c4515e9}[drivemask]

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

folders[personal]

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Queries value:

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Queries value:

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Queries value: HKLM\software\microsoft\windows\currentversion\explorer\user shell

folders[common documents]

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folders[desktop]

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folders[common desktop]

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folders[cookies]

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 $\label{thm:local-bound} HKLM \software \policies \microsoft \windows \safer \code identifiers \oldshes \fall 349d35ab-37b5-462f-9b89-edd5fbde \fall 1328 \cite{Local-bound} \cite{Local-bound} \safer \fall 1328 \cite{Local-bound} \cite{Local-bound} \safer \safer \cite{Local-bound} \safer \safer \cite{Local-bound} \safer \safer \safer \cite{Local-bound} \safer \s$

Queries value:

 $HKLM \setminus software \setminus policies \setminus microsoft \setminus windows \setminus after \setminus ohashes \setminus \{7fb9cd2e-3076-4df9-a57b-b813f72dbb91\} [itemdata]$

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Queries value:

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Oueries value:

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

Queries value: HKLM\system\currentcontrolset\control\lsa[everyoneincludesanonymous]

Queries value: HKCR\clsid\{148bd52a-a2ab-11ce-b11f-

00aa00530503}\inprocserver32[inprocserver32]

Queries value: HKCR\clsid\{148bd52a-a2ab-11ce-b11f-00aa00530503}\inprocserver32[]

Queries value: HKCR\clsid\{148bd52a-a2ab-11ce-b11f-00aa00530503}[appid]

Queries value: HKCR\clsid\{148bd52a-a2ab-11ce-b11f-

00aa00530503}\inprocserver32[threadingmodel]

Queries value:

HKLM\system\currentcontrolset\services\dnscache\parameters[queryadaptername]

HKLM\system\currentcontrolset\services\tcpip\parameters[disableadapterdomainname]

Queries value:

HKLM\system\currentcontrolset\services\dnscache\parameters[usedomainnamedevolution]

Queries value:

HKLM\system\currentcontrolset\services\tcpip\parameters[usedomainnamedevolution]

Queries value:

HKLM\system\currentcontrolset\services\dnscache\parameters[prioritizerecorddata]

Queries value:

HKLM\system\currentcontrolset\services\tcpip\parameters[prioritizerecorddata]

Queries value:

HKLM\system\currentcontrolset\services\dnscache\parameters[allowunqualifiedquery]

Queries value:

 $HKLM \setminus system \setminus current control set \setminus services \setminus tcpip \setminus parameters [allow unqualified query]$

Queries value:

HKLM\system\currentcontrolset\services\dnscache\parameters[appendtomultilabelname]

Queries value:

HKLM\system\currentcontrolset\services\dnscache\parameters[screenbadtlds]

Queries value:

HKLM\system\currentcontrolset\services\dnscache\parameters[screenunreachableservers]

Queries value:

HKLM\system\currentcontrolset\services\dnscache\parameters[filterclusterip]

Queries value:

HKLM\system\currentcontrolset\services\dnscache\parameters[waitfornameerroronall]

Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[useedns]

Queries value:

HKLM\system\currentcontrolset\services\dnscache\parameters[queryipmatching] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[usehostsfile] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registrationenabled] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[disabledynamicupdate] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registerprimaryname] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registeradaptername] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[enableadapterdomainnameregistration] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registerreverselookup] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[disablereverseaddressregistrations] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registerwanadapters] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[disablewandynamicupdate] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registrationttl] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[defaultregistrationttl] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registrationrefreshinterval] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[defaultregistrationrefreshinterval] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registrationmaxaddresscount] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[maxnumberofaddressestoregister] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[updatesecuritylevel] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[updatesecuritylevel] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[updatezoneexcludefile] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[updatetopleveldomainzones] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[dnstest] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachesize] HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachettl] Queries value: Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[maxnegativecachettl] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[adaptertimeoutlimit] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[serverprioritytimelimit] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachedsockets] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[multicastlistenlevel] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[multicastsendlevel] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[dnsquerytimeouts] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[dnsquickquerytimeouts] HKLM\system\currentcontrolset\services\tcpip\parameters[dnsmulticastquerytimeouts] Queries value: HKLM\system\currentcontrolset\services\ldap[ldapclientintegrity]

HKLM\software\microsoft\schedulingagent[tasksfolder]

Queries value:

Queries value: HKLM\software\microsoft\schedulingagent[notifyontaskmiss]
Queries value: HKLM\software\microsoft\schedulingagent[viewhiddentasks]
Queries value: HKLM\system\currentcontrolset\control\nls\locale[00000409]
Queries value: HKLM\system\currentcontrolset\control\nls\language groups[1]

Sets/Creates value:

HKCU\software\microsoft\windows\shellnoroam\muicache[c:\windows\system32\schtasks.exe]

Sets/Creates value: HKLM\system\currentcontrolset\control\session

manager[pendingfilerenameoperations]

Value changes: HKCU\software\microsoft\windows\currentversion\explorer\shell

folders[appdata]

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

Value changes: HKCU\software\microsoft\windows\currentversion\explorer\shell

folders[personal]
 Value changes:

HKCU\software\microsoft\windows\currentversion\explorer\mountpoints2\{f90255c2-6bc4-11e3-9fc7-

806d6172696f}[baseclass]

Value changes: HKLM\software\microsoft\windows\currentversion\explorer\shell

folders[common documents]

Value changes: HKCU\software\microsoft\windows\currentversion\explorer\shell

folders[desktop]

Value changes: HKLM\software\microsoft\windows\currentversion\explorer\shell

folders[common desktop]

Value changes: HKCU\software\microsoft\windows\currentversion\internet

settings\zonemap[proxybypass]

Value changes: HKCU\software\microsoft\windows\currentversion\internet

settings\zonemap[intranetname]

Value changes: HKCU\software\microsoft\windows\currentversion\internet

settings\zonemap[uncasintranet]

Value changes: HKCU\software\microsoft\windows\currentversion\internet

settings\zonemap[autodetect]

Value changes: HKCU\software\microsoft\windows\currentversion\explorer\shell

folders[cache]

Value changes: HKCU\software\microsoft\windows\currentversion\explorer\shell

folders[cookies]