# Malware Analysis Appliance by Blue Coat Systems, Inc.

Task Details

Host: mag2, Sample ID: 3327, Task ID: 817

Task ID: 817 Risk Level: 10

Date Processed: 2016-05-18 10:41:42 (UTC)

Processing Time: 8.16 seconds Virtual Environment: IntelliVM

**Execution Arguments:** "c:\windows\temp\6f2064e626e4383a5d8a9c0bdb8e9ddf.exe"

Sample ID: Type: basic Owner: admin

6f2064e626e4383a5d8a9c0bdb8e9ddf Label:

Date Added: 2016-05-18 10:30:51 (UTC)

PE32:win32:gui File Type: File Size: 118784 bytes

6f2064e626e4383a5d8a9c0bdb8e9ddf MD5:

d0fae395b7a83a222a795282e88c1d87ca83c3499a2a343f607b8e6c5832cd27 SHA256:

Description: None

### Pattern Matching Results

3 HTTP connection - response code 200 (success)

3 Long sleep detected

4 Terminates process under Windows subfolder

10 Creates malicious events: Beebone [Trojan]

6 Checks task list from command line

#### Process/Thread Events

Creates process: C:\windows\temp\6f2064e626e4383a5d8a9c0bdb8e9ddf.exe

"C:\windows\temp\6f2064e626e4383a5d8a9c0bdb8e9ddf.exe" ]
Creates process: C:\Windows\System32\cmd.exe ["C:\Windows\System32\cmd.exe" /c

tasklist&&del 6f2064e626e4383a]

C:\Windows\system32\tasklist.exe [tasklist] Creates process:

Terminates process: C:\Windows\Temp\6f2064e626e4383a5d8a9c0bdb8e9ddf.exe

Terminates process: C:\Windows\System32\tasklist.exe Terminates process: C:\Windows\System32\cmd.exe

## Named Object Events

Creates mutex: \Sessions\1\BaseNamedObjects\DBWinMutex \Sessions\1\BaseNamedObjects\\_!MSFTHISTORY!\_ Creates mutex:

Creates mutex:

\Sessions\1\BaseNamedObjects\c:!users!admin!appdata!local!microsoft!windows!temporary internet

files!content.ie5! Creates mutex:

\Sessions\1\BaseNamedObjects\c:!users!admin!appdata!roaming!microsoft!windows!cookies!

Creates mutex:

\Sessions\1\BaseNamedObjects\c:!users!admin!appdata!local!microsoft!windows!history!history.ie5!

\Sessions\1\BaseNamedObjects\WininetStartupMutex Creates mutex:  $\verb|\Sessions|| 1 \\| BaseNamedObjects|| WininetConnectionMutex||$ Creates mutex: \Sessions\1\BaseNamedObjects\WininetProxyRegistryMutex Creates mutex:

\Sessions\1\BaseNamedObjects\RasPbFile Creates mutex: Creates mutex:

 $\verb|\Sessions|1\BaseNamedObjects|\ZonesCounterMutex|$ Creates mutex:  $\verb|\Sessions|1| BaseNamedObjects\\| ZoneAttributeCacheCounterMutex| \\$ 

\Sessions\1\BaseNamedObjects\ZonesCacheCounterMutex Creates mutex:  $\verb|\Sessions|1| BaseNamedObjects\\| ZonesLockedCacheCounterMutex||$ Creates mutex:

\Sessions\1\BaseNamedObjects\!IETld!Mutex Creates mutex: \Security\LSA AUTHENTICATION INITIALIZED Creates event: Creates event: \BaseNamedObjects\SvcctrlStartEvent\_A3752DX

\BaseNamedObjects\BFE\_Notify\_Event\_{7e0f02a3-8e25-4ea6-917e-Creates event:

4819848853b9}

 $\verb|\KernelObjects| Maximum Commit Condition| \\$ Creates event: \BaseNamedObjects\ConsoleEvent-0x00000AB8 Creates event: \BaseNamedObjects\TermSrvReadyEvent Creates event:

\Sessions\1\BaseNamedObjects\C:?WINDOWS?TEMP? Creates semaphore:

6F2064E626E4383A5D8A9C0BDB8E9DDF.EXE

# File System Events

C:\Users\Admin

Creates: C:\Users\Admin\AppData\Local

C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet Files Creates:

Creates: C:\Users\Admin\AppData\Roaming

Creates: C:\Users\Admin\AppData\Roaming\Microsoft\Windows\Cookies Creates: C:\Users\Admin\AppData\Local\Microsoft\Windows\History Creates:

C:\Users\Admin\AppData\Roaming\Microsoft\Windows\Cookies\admin@domai.noip1[1].txt Creates: C:\Users\Admin\AppData\Local\Microsoft\Windows\Caches Opens: C:\Windows\Prefetch\6F2064E626E4383A5D8A9C0BDB8E9-65666C45.pf

```
C:\Windows\System32
 Opens:
                         C:\windows\temp\MSVBVM60.DLL
 Opens:
 Opens:
                         C:\Windows\System32\msvbvm60.dll
                         C:\Windows\System32\sechost.dll
 Opens:
 Opens:
                         C:\Windows\System32\imm32.dll
 Opens:
                         C:\Windows\Globalization\Sorting\SortDefault.nls
                         C:\Windows\System32\rpcss.dll
 Opens:
                         C:\windows\temp\CRYPTBASE.dll
 Opens:
 Opens:
                         C:\Windows\System32\cryptbase.dll
 Opens:
                         C:\Windows\System32\uxtheme.dll
 Opens:
                         C:\windows\temp\6f2064e626e4383a5d8a9c0bdb8e9ddf.exe.cfg
 Opens:
                         C:\windows\temp\SXS.DLL
 Opens:
                         C:\Windows\System32\sxs.dll
                         C:\Windows\System32\C_932.NLS
 Opens:
 Opens:
                         C:\Windows\System32\C_949.NLS
 Opens:
                         C:\Windows\System32\C_950.NLS
 Opens:
                         C:\Windows\System32\C_936.NLS
 Opens:
                         C:\windows\temp\WINMM.DLL
 Opens:
                         C:\Windows\System32\winmm.dll
 Opens:
                         C:\windows\temp\lz32.DLL
 Opens:
                         C:\Windows\System32\lz32.dll
 Opens:
                         C:\Windows\Temp\6f2064e626e4383a5d8a9c0bdb8e9ddf.exe
                         C:\
 Opens:
 Opens:
                         C:\windows\temp\SspiCli.dll
 Opens:
                         C:\Windows\System32\sspicli.dll
 Opens:
                         C:\Windows\System32\wininet.dll
 Opens:
                         C:\windows\temp\6f2064e626e4383a5d8a9c0bdb8e9ddf.exe.Local\
 Opens:
                         C:\Windows\winsxs\x86_microsoft.windows.common-
controls_6595b64144ccf1df_6.0.7601.17514_none_41e6975e2bd6f2b2
                         C:\Windows\winsxs\x86_microsoft.windows.common-
 Opens:
controls_6595b64144ccf1df_6.0.7601.17514_none_41e6975e2bd6f2b2\comctl32.dll
                         C:\Windows\WindowsShell.Manifest
 Opens:
 Opens:
                         C:\windows\temp\profapi.dll
 Opens:
                         C:\Windows\System32\profapi.dll
                         C:\Users\Admin
 Opens:
 Opens:
                         C:\Users\Admin\AppData\Local
 Opens:
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet Files
 Opens:
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet
Files\desktop.ini
 Opens:
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet
Files\Content.IE5
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet
 Opens:
Files\Content.IE5\desktop.ini
                         C:\Users\Admin\AppData\Roaming
 Opens:
 Opens:
                         C:\Users\Admin\AppData\Roaming\Microsoft\Windows\Cookies
 Opens:
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\History
                         \verb|C:\Users\Admin\AppData\Local\Microsoft\Windows\History\desktop.ini|\\
 Opens:
 Opens:
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\History\History.IE5
 Opens:
C:\Users\Admin\AppData\Local\Microsoft\Windows\History\History.IE5\desktop.ini
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet
Files\Content.IE5\index.dat
                         C:\Users\Admin\AppData\Roaming\Microsoft\Windows\Cookies\index.dat
 Opens:
 Opens:
C:\Users\Admin\AppData\Local\Microsoft\Windows\History\History.IE5\index.dat
 Opens:
                         C:\windows\temp\ntmarta.dll
                         C:\Windows\System32\ntmarta.dll
 Opens:
 Opens:
                         C:\windows\temp\dnsapi.DLL
                         C:\Windows\System32\dnsapi.dll
 Opens:
 Opens:
                         C:\windows\temp\iphlpapi.DLL
 Opens:
                         C:\Windows\System32\IPHLPAPI.DLL
 Opens:
                         C:\windows\temp\WINNSI.DLL
 Opens:
                         C:\Windows\System32\winnsi.dll
 Opens:
                         C:\windows\temp\RASAPI32.dll
 Opens:
                         C:\Windows\System32\rasapi32.dll
 Opens:
                         C:\windows\temp\rasman.dll
 Opens:
                         C:\Windows\System32\rasman.dll
 Opens:
                         C:\windows\temp\rtutils.dll
 Opens:
                         C:\Windows\System32\rtutils.dll
 Opens:
                         C:\ProgramData\Microsoft\Network\Connections\Pbk\
 Opens:
                         C:\Windows\System32\ras
 Opens:
                         C:\Users\Admin\AppData\Roaming\Microsoft\Network\Connections\Pbk
 Opens:
                         C:\windows\temp\sensapi.dll
 Opens:
                         C:\Windows\System32\SensApi.dll
 Opens:
                         C:\Windows\System32\nlaapi.dll
 Opens:
                         C:\windows\temp\rasadhlp.dll
 Opens:
                         C:\Windows\System32\rasadhlp.dll
 Opens:
                         C:\windows\temp\VERSION.dll
 Opens:
                         C:\Windows\System32\version.dll
 Opens:
                         C:\Windows\System32\en-US\urlmon.dll.mui
 Opens:
                         C:\Windows\System32\mswsock.dll
                         C:\Windows\System32\NapiNSP.dll
 Opens:
 Opens:
                         C:\Windows\System32\pnrpnsp.dll
```

```
C:\Windows\System32\winrnr.dll
 Opens:
 Opens:
                         C:\Windows\System32\WSHTCPIP.DLL
 Opens:
                         C:\Windows\System32\wship6.dll
 Opens:
                         C:\windows\temp\dhcpcsvc6.DLL
 Opens:
                         C:\Windows\System32\dhcpcsvc6.dll
 Opens:
                         C:\windows\temp\dhcpcsvc.DLL
 Opens:
                         C:\Windows\System32\dhcpcsvc.dll
 Opens:
                         C:\Windows\System32\drivers\etc\hosts
 Opens:
                         C:\Windows\System32\FWPUCLNT.DLL
 Opens:
                         C:\Windows\System32\netprofm.dll
 Opens:
                         C:\windows\temp\CRYPTSP.dll
 Opens:
                         C:\Windows\System32\cryptsp.dll
 Opens:
                         C:\Windows\System32\rsaenh.dll
                         C:\windows\temp\RpcRtRemote.dll
 Opens:
 Opens:
                         C:\Windows\System32\RpcRtRemote.dll
 Opens:
                         C:\Windows\System32\npmproxy.dll
 Opens:
C:\Users\Admin\AppData\Roaming\Microsoft\Windows\Cookies\admin@domai.noip1[1].txt
 Opens:
                         C:\windows\temp\PROPSYS.dll
 Opens:
                         C:\Windows\System32\propsys.dll
 Opens:
                         C:\Windows\System32\shell32.dll
 Opens:
                         C:\windows\temp\apphelp.dll
 Opens:
                         C:\Windows\System32\apphelp.dll
 Opens:
                         C:\Windows\System32\ieframe.dll
 Opens:
                         C:\Windows\System32\oleacc.dll
 Opens:
                         C:\windows\temp\OLEACCRC.DLL
 Opens:
                         C:\Windows\System32\oleaccrc.dll
 Opens:
                         C:\Windows\System32\en-US\setupapi.dll.mui
                         C:\Windows
 Opens:
 Opens:
                         C: \verb|\USers\Admin\AppData\Local\Microsoft\Windows\Caches\cversions.1.db|
 Opens:
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\Caches\{AFBF9F1A-8EE8-
4C77-AF34-C647E37CA0D9}.1.ver0x000000000000006.db
 Opens:
                         C:\Users\Admin\Desktop\desktop.ini
                         C:\Windows\System32\en-US\propsys.dll.mui
 Opens:
 Opens:
                         C:\Windows\System32\cmd.exe
 Opens:
                         C:\Windows\System32\cmd.exe:Zone.Identifier
 Opens:
                         C:\Windows\Prefetch\CMD.EXE-4A81B364.pf
                         C:\Windows\WINHELP.INI
 Opens:
 Opens:
                         C:
 Opens:
                         C:\Windows\system32\.HLP
 Opens:
                         C:\Windows\Help\.HLP
 Opens:
                         C:\Program Files
 Opens:
                         C:\Program Files\Adobe
 Opens:
                         C:\Program Files\Adobe\Reader 9.0
 Opens:
                         C:\Program Files\Adobe\Reader 9.0\Reader
 Opens:
                         C:\Windows\Branding
 Opens:
                         C:\Windows\Branding\Basebrd
 Opens:
                         C:\Windows\Branding\Basebrd\en-US
 Opens:
                         C:\Windows\Globalization
                         C:\Windows\Globalization\Sorting
 Opens:
 Opens:
                         C:\Windows\System32\en-US
 Opens:
                         C:\Windows\System32\ntdll.dll
                         C:\Windows\System32\kernel32.dll
 Opens:
 Opens:
                         C:\Windows\System32\apisetschema.dll
 Opens:
                         C:\Windows\System32\KernelBase.dll
 Opens:
                         C:\Windows\System32\locale.nls
 Opens:
                         C:\Windows\System32\msvcrt.dll
 Opens:
                         C:\Windows\System32\winbrand.dll
 Opens:
                         C:\Windows\System32\user32.dll
 Opens:
                         C:\Windows\System32\gdi32.dll
 Opens:
                         C:\Windows\System32\lpk.dll
 Opens:
                         C:\Windows\System32\usp10.dll
 Opens:
                         C:\Windows\System32\msctf.dll
 Opens:
                         C:\Windows\System32\en-US\cmd.exe.mui
 Opens:
                         C:\Windows\Branding\Basebrd\basebrd.dll
 Opens:
                         C:\Windows\Branding\Basebrd\en-US\basebrd.dll.mui
 Opens:
                         C:\Program Files\Adobe\Reader 9.0\Reader\icucnv36.dll
 Opens:
                         C:\Windows\System32\tasklist.exe
 Opens:
                         C:\Windows\AppPatch\sysmain.sdb
 Opens:
                         C:\Windows\system32\ui\SwDRM.dll
                         C:\Windows\Prefetch\TASKLIST.EXE-C6CEE193.pf
 Opens:
 Opens:
                         C:\Windows\System32\mpr.dll
 Opens:
                         C:\Windows\System32\secur32.dll
                         C:\Windows\System32\framedynos.dll
 Opens:
 Opens:
                         C:\Windows\System32\wtsapi32.dll
 Opens:
                         C:\Windows\System32\netapi32.dll
                         C:\Windows\System32\netutils.dll
 Opens:
 Opens:
                         C:\Windows\System32\srvcli.dll
 Opens:
                         C:\Windows\System32\wkscli.dll
 Opens:
                         C:\Windows\System32\dbghelp.dll
 Opens:
                         C:\Windows\System32\en-US\tasklist.exe.mui
                         C:\Windows\System32\en-US\KernelBase.dll.mui
 Opens:
```

C:\Windows\System32\wbem\wbemprox.dll

Opens:

C:\Windows\system32\wbem\wbemcomn.dll Opens: Opens: C:\Windows\System32\wbemcomn.dll Opens: C:\Windows\System32\wbem\Logs Opens: C:\Windows\System32\winsta.dll C:\Windows\System32\wbem\wbemsvc.dll Opens: Opens: C:\Windows\System32\wbem\fastprox.dll C:\Windows\system32\wbem\NTDSAPI.dll Opens: C:\Windows\System32\ntdsapi.dll Opens: Opens: C:\Windows\System32\wbem\wmiutils.dll

Opens: C:\Windows\System32\wbem\en-US\wmiutils.dll.mui

Opens: C:\Windows\system32\6f2064e626e4383a

Writes to:

C:\Users\Admin\AppData\Roaming\Microsoft\Windows\Cookies\admin@domai.noip1[1].txt Reads from: C:\Windows\Temp\6f2064e626e4383a5d8a9c0bdb8e9ddf.exe

Reads from: C:\Windows\System32\drivers\etc\hosts
Reads from: C:\Users\Admin\Desktop\desktop.ini
Reads from: C:\Windows\Prefetch\CMD.EXE-4A81B364.pf
Reads from: C:\Windows\System32\tasklist.exe

#### **Network Events**

DNS query: domai.noip1.org

DNS query: wpad

DNS response: domai.noip1.org ⇒ 69.195.129.70

Connects to: 69.195.129.70:443
Sends data to: 8.8.8.8:53
Sends data to: 0.0.0.0:5355
Sends data to: 224.0.0.252:5355

Sends data to: domai.noip1.org:443 (69.195.129.70)

Receives data from: 8.8.8.8:53

Receives data from: domai.noip1.org:443 (69.195.129.70)

#### Windows Registry Events

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

Creates key: HKLM\software\microsoft\tracing

Creates key:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32

Creates key:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasmancs
Creates key: HKCU\software\microsoft\windows\currentversion\internet

settings\connections

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

Creates key: HKCU\software\microsoft\windows nt\currentversion\network\location

awareness

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

settings\p3p\history

Creates key: HKCU\software\microsoft\visual basic\6.0

Creates key: HKCU\software

Creates key: HKCU\software\microsoft

Creates key: HKCU\software\microsoft\visual basic Creates key: HKLM\software\microsoft\wbem\cimom

Deletes value: HKCU\software\microsoft\windows\currentversion\internet

settings[proxyserver]

Deletes value: HKCU\software\microsoft\windows\currentversion\internet

settings[proxyoverride]

Deletes value: HKCU\software\microsoft\windows\currentversion\internet

settings[autoconfigurl]

settings\zonemap[proxybypass]

Deletes value: HKLM\software\microsoft\windows\currentversion\internet

settings\zonemap[proxybypass]

Deletes value: HKCU\software\microsoft\windows\currentversion\internet

settings\zonemap[intranetname]

Deletes value: HKLM\software\microsoft\windows\currentversion\internet

settings\zonemap[intranetname]

Opens key: HKLM\system\currentcontrolset\control\session manager
Opens key: HKLM\system\currentcontrolset\control\terminal server
Opens key: HKLM\system\currentcontrolset\control\safeboot\option
Opens key: HKLM\system\currentcontrolset\control\srp\gp\dll

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

Opens key: HKCU\

Opens key:  ${\tt HKCU\control\ panel\desktop\muicached\machinelanguage} {\tt configuration}$ 

Opens key: HKLM\software\policies\microsoft\mui\settings

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

Opens key: HKCU\control panel\desktop

Opens key: HKCU\control panel\desktop\muicached

Opens key: HKLM\software\microsoft\windows\currentversion\sidebyside
Opens key: HKLM\system\currentcontrol\set\control\nls\sorting\versions

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

options

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

```
options\dllnxoptions
   Opens key:
                                              HKLM\system\currentcontrolset\control\error message instrument\
                                              HKLM\system\currentcontrolset\control\error message instrument
   Opens key:
   Opens key:
                                              HKLM\software\microsoft\windows nt\currentversion\gre_initialize
   Opens key:
                                              HKLM\software\microsoft\windows nt\currentversion\compatibility32
                                              HKLM\software\microsoft\windows nt\currentversion\ime compatibility
   Opens key:
   Opens key:
                                              HKLM\
                                             HKLM\software\microsoft\windows nt\currentversion\windows
   Opens key:
                                              HKLM\software\microsoft\windows nt\currentversion\diagnostics
   Opens key:
   Opens key:
                                              HKLM\software\microsoft\ole
   Opens key:
                                             HKLM\software\microsoft\ole\tracing
   Opens key:
                                              HKLM\software\microsoft\oleaut
   Opens key:
                                              HKLM\system\currentcontrolset\control\nls\customlocale
                                              HKLM\system\currentcontrolset\control\nls\extendedlocale
   Opens key:
   Opens key:
                                              HKLM\system\currentcontrolset\control\nls\locale
   Opens key:
                                              HKLM\system\currentcontrolset\control\nls\locale\alternate sorts
   Opens key:
                                              HKLM\system\currentcontrolset\control\nls\language groups
   Opens key:
                                              HKLM\software\microsoft\windows\windows error reporting\wmr
   Opens key:
                                              HKLM\system\currentcontrolset\control\nls\codepage
                                              HKLM\software\microsoft\vba\monitors
   Opens key:
   Opens key:
                                              HKLM\system\currentcontrolset\services\disk\enum
   Opens key:
                                              HKLM\software\microsoft\rpc
   Opens key:
                                             HKLM\system\currentcontrolset\control\computername\activecomputername
   Opens key:
                                              HKLM\system\setup
   Opens key:
                                              HKLM\software\policies\microsoft\windows nt\rpc
                                             HKLM\software\policies\microsoft\sqmclient\windows
   Opens key:
   Opens key:
                                              HKLM\software\microsoft\sqmclient\windows
   Opens key:
                                              HKLM\system\currentcontrolset\services\crypt32
                                             HKLM\software\microsoft\windows\currentversion\internet settings
   Opens key:
   Opens key:
                                              HKLM\software\policies\microsoft\windows\currentversion\internet
settings
   Opens key:
HKLM\software\microsoft\windows\currentversion\sidebyside\assemblystorageroots
   Opens key:
                                             HKCU\software\policies\microsoft\windows\currentversion\internet
settings
   Opens key:
                                              HKCU\software\microsoft\windows\currentversion\internet settings
   Opens key:
                                              HKLM\software\policies
                                             HKCU\software\policies
   Opens key:
   Opens key:
                                             HKCU\software
   Opens key:
                                              HKLM\software
   Opens key:
                                             HKLM\software\policies\microsoft\internet explorer
   Opens key:
                                              HKLM\software\policies\microsoft\internet explorer\main
   Opens key:
                                              HKLM\software\policies\microsoft\internet explorer\main\featurecontrol
   Opens key:
                                              \label{lem:hkcu} \verb+KKCU\software\policies\microsoft\internet\ explorer\main\feature control
   Opens key:
                                              HKCU\software\microsoft\internet explorer\main\featurecontrol
   Opens key:
                                              HKLM\software\microsoft\internet explorer\main\featurecontrol
                                              HKLM\software\microsoft\windows\currentversion\internet
   Opens key:
settings\5.0\cache
                                              HKCU\software\microsoft\windows\currentversion\internet
   Opens kev:
settings\5.0\cache
                                              HKCU\software\microsoft\windows\currentversion\internet
   Opens key:
settings\5.0\cache\content
                                              HKLM\software\microsoft\windows\currentversion\internet
   Opens key:
settings\5.0\cache\content
   Opens kev:
HKLM \setminus software \setminus microsoft \setminus windows \setminus current version \setminus explorer \setminus folder descriptions
ba85-6007caedcf9d}
   Opens key:
ba85-6007caedcf9d}\propertybag
                                              HKCU\software\microsoft\windows\currentversion\explorer
   Opens key:
   Opens key:
                                             HKCU\software\microsoft\windows\currentversion\explorer\sessioninfo\1
   Opens key:
Opens key:
                                             HKCU\software\microsoft\windows\currentversion\explorer\user shell
folders
   Opens key:
                                             HKLM\software\policies\microsoft\windows\explorer
                                             HKCU\software\policies\microsoft\windows\explorer
   Opens kev:
   Opens key:
9d55-7b8e7f157091}
   Opens key:
9d55-7b8e7f157091}\propertybag
   Opens key:
HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\xi 5e6c858f-0e22-4760-1260 \ 'explorer' \ 'folder descriptions' \ 'folder de
9afe-ea3317b67173}
   Opens key:
HKLM \ software \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{5e6c858f-0e22-4760-16464, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1960-1646, 1
9afe-ea3317b67173}\propertybag
   Opens key:
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2160590473-689474908-1361669368-1002
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HKLM\software\microsoft\windows\currentversion\explorer\knownfoldersettings
                                              HKCU\software\microsoft\windows\currentversion\internet
   Opens key:
settings\5.0\cache\cookies
   Opens key:
                                              HKLM\software\microsoft\windows\currentversion\internet
settings\5.0\cache\cookies
   Opens key:
908e-08a611b84ff6}
   Opens kev:
HKLM \ software \ icrosoft \ windows \ current version \ explorer \ folder descriptions \ \ \{2b0f765d-c0e9-4171-d1474-d14744-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474-d1474
908e-08a611b84ff6}\propertybag
   Opens kev:
a03a-e3ef65729f3d}
   Opens key:
a03a-e3ef65729f3d}\propertybag
                                              HKCU\software\microsoft\windows\currentversion\internet
   Opens key:
settings\5.0\cache\history
                                              HKLM\software\microsoft\windows\currentversion\internet
   Opens key:
settings\5.0\cache\history
HKLM \ software \ `microsoft \ `windows \ `current version \ `explorer \ 'folder descriptions \ ' \{d9dc8a3b-b784-432e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-d742e-
a781-5a1130a75963}
   Opens key:
a781\hbox{-}5a1130a75963} \verb|\propertybag|
                                              HKCU\software\microsoft\windows\currentversion\internet
   Opens key:
settings\5.0\cache\extensible cache
                                              HKCU\software\microsoft\windows\currentversion\internet
   Opens key:
settings\5.0\cache\extensible cache\domstore
   Opens key:
                                              HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\feedplat
                                              HKCU\software\microsoft\windows\currentversion\internet
   Opens key:
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   Opens key:
settings\5.0\cache\extensible cache\ietld
                                             HKCU\software\microsoft\windows\currentversion\internet
   Opens key:
settings\5.0\cache\extensible cache\privacie:
                                              HKCU\software\microsoft\internet
   Opens key:
explorer\main\featurecontrol\retry headeronlypost onconnectionreset
   Opens key:
                                             HKLM\software\microsoft\internet
explorer\main\featurecontrol\retry_headeronlypost_onconnectionreset
   Opens key:
                                             HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_bufferbreaking_818408
   Opens key:
                                             HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature bufferbreaking 818408
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                                             HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_skip_post_retry_on_internetwritefile_kb895954
   Opens key:
                                             HKLM\software\microsoft\internet
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   Opens key:
settings\5.0\cache
   Opens key:
                                              HKCU\software\policies\microsoft\windows\currentversion\internet
settings\5.0\cache
   Opens key:
                                              HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature fix chunked proxy script download kb843289
                                              HKLM\software\microsoft\internet
   Opens key:
explorer\main\featurecontrol\feature_fix_chunked_proxy_script_download_kb843289
   Opens key:
                                              HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_use_cname_for_spn_kb911149
                                              HKLM\software\microsoft\internet
   Opens kev:
explorer\main\featurecontrol\feature_use_cname_for_spn_kb911149
                                              HKCU\software\microsoft\internet
   Opens kev:
explorer\main\featurecontrol\feature_disable_notify_unverified_spn_kb2385266
   Opens key:
                                              HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_disable_notify_unverified_spn_kb2385266
   Opens key:
                                              HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_compat_use_connection_based_negotiate_auth_kb2151543
   Opens kev:
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explorer\main\featurecontrol\feature_compat_use_connection_based_negotiate_auth_kb2151543
   Opens key:
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explorer\main\featurecontrol\feature_allow_long_international_filenames
   Opens key:
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   Opens kev:
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explorer\main\featurecontrol\feature_permit_cache_for_authenticated_ftp_kb910274
   Opens key:
                                              HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_permit_cache_for_authenticated_ftp_kb910274
   Opens key:
                                              HKCU\software\microsoft\internet
```

 $explorer \verb|\main\featurecontrol\feature_disable_unicode_handle_closing_callback|$ 

```
Opens key:
                     HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_disable_unicode_handle_closing_callback
 Opens key:
                     HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_disallow_null_in_response_headers
                     HKLM\software\microsoft\internet
 Opens kev:
explorer\main\featurecontrol\feature_disallow_null_in_response_headers
 Opens key:
                     HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_digest_no_extras_in_uri
 Opens key:
                     HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_digest_no_extras_in_uri
                     HKLM\software\microsoft\internet
 Opens kev:
explorer\main\featurecontrol\feature_enable_passport_session_store_kb948608
 Opens key:
                     HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_exclude_invalid_client_cert_kb929477
 Opens key:
                     HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_exclude_invalid_client_cert_kb929477
                     HKCU\software\microsoft\internet
 Opens kev:
explorer\main\featurecontrol\feature_use_utf8_for_basic_auth_kb967545
                     HKLM\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_use_utf8_for_basic_auth_kb967545
                     HKCU\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_release_keys_on_unload_kb975619
                     HKLM\software\microsoft\internet
 Opens kev:
explorer\main\featurecontrol\feature_release_keys_on_unload_kb975619
                     HKCU\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_security_flag_ignore_revocation_kb2275828
                     HKLM\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_security_flag_ignore_revocation_kb2275828
 Opens kev:
                     HKLM\system\currentcontrolset\control\lsa\accessproviders
 Opens key:
                     HKLM\system\currentcontrolset\services\ldap
 Opens key:
                     HKLM\system\currentcontrolset\services\winsock2\parameters
 Opens key:
                     HKLM\system\currentcontrolset\services\winsock2\parameters\appid_catalog
 Opens key:
HKLM\system\currentcontrolset\services\winsock2\parameters\appid_catalog\2d4511fd
 Opens kev:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9
 Opens kev:
Opens key:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol catalog9\catalog entries
 Opens key:
Opens kev:
Opens kev:
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 Opens key:
Opens kev:
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 Opens kev:
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 Opens key:
Opens kev:
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 Opens kev:
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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\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000016
 Opens kev:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000017
 Opens key:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000018
 Opens key:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5
```

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\0000000c

Opens kev:

Opens key:

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```
HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space\_catalog 5 \ (catalog\_entries \ 00000000000001) \ (catalog\_entries \ name space\_catalog 5) \ (catalog\_entries 
  Opens key:
Opens key:
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HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\0000000000004
  Opens key:
Opens key:
Opens key:
                                  HKCU\software\microsoft\windows\currentversion\internet settings\wpad
  Opens key:
                                  HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_return_failed_connect_content_kb942615
  Opens key:
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explorer\main\featurecontrol\feature_return_failed_connect_content_kb942615
                                  HKCU\software\microsoft\internet
  Opens key:
explorer\main\featurecontrol\feature_http_username_password_disable
  Opens key:
                                  HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_http_username_password_disable
  Opens key:
HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf_rasapi32
  Opens key:
HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf_rasmancs
  Opens key:
                                  HKLM\system\currentcontrolset\control\sqmservicelist
                                  HKLM\software\microsoft\windows nt\currentversion\profilelist
  Opens key:
  Opens key:
                                  HKLM\software\microsoft\sqmclient\windows\disabledprocesses\
  Opens key:
                                  HKLM\software\microsoft\sqmclient\windows\disabledsessions\
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  Opens kev:
  Opens key:
                                  HKCU\software\classes\
  Opens key:
                                  HKCU\software\classes\autoproxytypes
                                  HKCR\autoproxytypes
  Opens key:
  Opens key:
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  Opens key:
                                  HKCR\autoproxytypes\application/x-internet-signup
                                  HKCU\software\classes\autoproxytypes\application/x-ns-proxy-autoconfig
  Opens key:
  Opens key:
                                  HKCR\autoproxytypes\application/x-ns-proxy-autoconfig
  Opens key:
                                  HKLM\system\currentcontrolset\services\dnscache\parameters
                                  HKLM\software\policies\microsoft\windows nt\dnsclient
  Opens key:
  Opens key:
                                  HKLM\system\currentcontrolset\services\dns
  Opens key:
                                  HKLM\software\policies\microsoft\windows nt\dnsclient\dnspolicyconfig
  Opens key:
HKLM\system\currentcontrolset\services\dnscache\parameters\dnspolicyconfig
                                  HKCU\software\microsoft\internet
  Opens kev:
explorer\main\featurecontrol\feature_include_port_in_spn_kb908209
                                  HKLM\software\microsoft\internet
  Opens kev:
explorer\main\featurecontrol\feature_include_port_in_spn_kb908209
  Opens key:
                                  HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_mime_handling
                                  HKLM\software\microsoft\internet
  Opens kev:
explorer\main\featurecontrol\feature_mime_handling
                                  HKLM\software\policies\microsoft\windows\currentversion\internet
  Opens kev:
settings\
                                  HKCU\software\microsoft\internet
  Opens key:
explorer\main\featurecontrol\feature_ignore_policies_zonemap_if_esc_enabled_kb918915
  Opens kev:
                                  HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_ignore_policies_zonemap_if_esc_enabled_kb918915
                                  HKLM\software\policies\microsoft\windows\currentversion\internet
  Opens key:
settings\zonemap\domains\
                                  HKCU\software\policies\microsoft\windows\currentversion\internet
  Opens key:
settings\zonemap\domains\
  Opens key:
                                  HKLM\software\policies\microsoft\windows\currentversion\internet
settings\zonemap\ranges\
                                  HKCU\software\policies\microsoft\windows\currentversion\internet
  Opens key:
settings\zonemap\ranges\
                                  HKCU\software\microsoft\internet
  Opens key:
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\
                                  HKCU\software\microsoft\internet
  Opens key:
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\microsoft\windows\currentversion\internet
settings\zonemap
  Opens key:
                                  HKCU\software\policies\microsoft\windows\currentversion\internet
settings\zonemap
  Opens key:
                                  HKCU\software\microsoft\windows\currentversion\internet
settings\zonemap\ranges\
  Opens key:
                                  \label{lem:hkcu} \verb+KKCU \software \verb+microsoft + windows + current version + internet
settings\zonemap\protocoldefaults\
  Opens key:
                                  HKCU\software\microsoft\windows\currentversion\internet
```

```
settings\zonemap\domains\
                            HKLM\software\microsoft\windows\currentversion\internet
 Opens kev:
settings\zonemap\domains\
 Opens key:
                            HKLM\software\policies\microsoft\internet explorer\security
 Opens key:
                            HKCU\software\microsoft\windows\currentversion\internet settings\zones\
 Opens key:
                            \label{lem:hkcu} \mbox{\tt HKCU\software\mbox{\tt microsoft\windows\currentversion\internet\ settings\sl} zones \end{\tt 0}
 Opens key:
                            HKCU\software\microsoft\windows\currentversion\internet settings\zones\1
                            \label{lem:hkcu} \mbox{\tt HKCU\software\mbox{\tt microsoft\windows\currentversion\internet\ settings\zones\label{lem:hkcu}} \mbox{\tt 2}
 Opens key:
 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
                            HKCU\software\policies\microsoft\windows\currentversion\internet
 Opens kev:
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\microsoft\windows\currentversion\internet
 Opens kev:
settings\zonemap\
 Opens key:
                            HKLM\software\policies\microsoft\windows\currentversion\internet
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
                            HKCU\software\policies\microsoft\windows\currentversion\internet
 Opens kev:
settings\zones\3
                            HKLM\software\policies\microsoft\windows\currentversion\internet
 Opens key:
settings\zones\4
                            HKCU\software\policies\microsoft\windows\currentversion\internet
 Opens key:
settings\zones\4
                            HKCU\software\microsoft\internet
 Opens kev:
explorer\main\featurecontrol\feature_localmachine_lockdown
                            HKLM\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_localmachine_lockdown
 Opens key:
                            HKLM \verb|\software\policies\microsoft\windows\currentversion\ | internet
settings\lockdown_zones\
 Opens kev:
                            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
                            HKLM\software\policies\microsoft\windows\currentversion\internet
 Opens kev:
settings\lockdown_zones\0
                            HKCU\software\policies\microsoft\windows\currentversion\internet
 Opens key:
settings\lockdown_zones\0
 Opens key:
                            HKCU\software\microsoft\windows\currentversion\internet
settings\lockdown_zones\1
                            HKLM\software\policies\microsoft\windows\currentversion\internet
 Opens kev:
settings\lockdown_zones\1
 Opens key:
                            HKCU\software\policies\microsoft\windows\currentversion\internet
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
                            \label{lem:hkcu} \begin{tabular}{ll} HKCU \software \policies \microsoft \windows \current version \end{tabular} in termet \end{tabular}
 Opens key:
settings\lockdown zones\2
                            \label{lem:hkcu} \verb+KKCU \software \microsoft \windows \current version \cite{thm:lem:hkcu} in terms to the lemma substitution \cite{thm:lem:hkcu} and \cite{thm:lem:hkcu} are \cite{thm:lem:hkcu}.
 Opens key:
settings\lockdown_zones\3
                            \label{lem:hklm} \verb+Kklm\+ software\+ policies\+ microsoft\+ windows\+ current version\+ internet
 Opens key:
settings\lockdown_zones\3
 Opens key:
                            \label{lem:hkcu} \begin{tabular}{ll} HKCU \software \policies \microsoft \windows \current version \end{tabular} in termet \end{tabular}
settings\lockdown_zones\3
 Opens key:
                            HKCU\software\microsoft\windows\currentversion\internet
settings\lockdown_zones\4
                            HKLM\software\policies\microsoft\windows\currentversion\internet
 Opens kev:
settings\lockdown_zones\4
 Opens key:
                            HKCU\software\policies\microsoft\windows\currentversion\internet
settings\lockdown_zones\4
 Opens key:
                            HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_allow_reverse_solidus_in_userinfo_kb932562
 Opens key:
                            HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_allow_reverse_solidus_in_userinfo_kb932562
 Opens key:
                            HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_use_ietldlist_for_domain_determination
```

HKLM\software\microsoft\internet

Opens key:

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explorer\main\featurecontrol\feature_use_ietldlist_for_domain_determination
                         HKCU\software\microsoft\internet explorer\ietld
 Opens key:
 Opens key:
                         HKLM\system\currentcontrolset\control\cmf\config
 Opens key:
                         HKLM\system\currentcontrolset\services\winsock\parameters
 Opens key:
                         HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock
 Opens key:
                         HKLM\system\currentcontrolset\services\winsock\setup migration\providers
 Opens key:
                         HKLM\system\currentcontrolset\services\winsock\setup
 Opens kev:
migration\providers\psched
                         HKLM\system\currentcontrolset\services\tcpip\parameters\winsock
 Opens key:
                         HKLM\software\policies\microsoft\system\dnsclient
 Opens key:
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                         HKLM\system\currentcontrolset\services\winsock\setup
migration\providers\tcpip
                         HKLM\system\currentcontrolset\services\winsock\setup
 Opens key:
migration\providers\tcpip6
                         HKLM \verb|\system| current controlset \verb|\services| dns cache \verb|\parameters| dns cache |
 Opens key:
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HKLM\system\currentcontrolset\services\tcpip6\parameters\interfaces\{128919e8-8a5e-41d1-ac17-
c19ce8a73253}
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 Opens key:
c19ce8a732533
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806e6f6e6963}
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HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{e29ac6c2-7037-11de-816d-
806e6f6e6963}
 Opens key:
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                         HKLM\software\microsoft\com3
                         HKCU \setminus software \setminus classes \setminus clsid \setminus \{dcb00c01-570f-4a9b-8d69-199fdba5723b\}
 Opens key:
 Opens key:
                         HKCR\clsid\{dcb00c01-570f-4a9b-8d69-199fdba5723b}
 Opens key:
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199fdba5723b}\treatas
 Opens key:
                         HKCR\clsid\{dcb00c01-570f-4a9b-8d69-199fdba5723b}\treatas
 Opens key:
                         HKCU\software\classes\clsid\{dcb00c01-570f-4a9b-8d69-
199fdba5723b}\progid
 Opens key:
                         HKCR\clsid\{dcb00c01-570f-4a9b-8d69-199fdba5723b}\progid
 Opens key:
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199fdba5723b}\inprocserver32
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                         HKCR\clsid\{dcb00c01-570f-4a9b-8d69-199fdba5723b}\inprocserver32
                         HKCU\software\classes\clsid\{dcb00c01-570f-4a9b-8d69-
 Opens kev:
199fdba5723b}\inprochandler32
                         HKCR\clsid\dcb00c01-570f-4a9b-8d69-199fdba5723b\\\inprochandler32
 Opens key:
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                         HKCU\software\classes\clsid\{dcb00c01-570f-4a9b-8d69-
199fdba5723b}\inprochandler
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                         HKCR\clsid\\\{dcb00c01-570f-4a9b-8d69-199fdba5723b\\\}\inprochandler
 Opens kev:
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                         HKCU \setminus software \setminus classes \setminus clsid \setminus \{a47979d2-c419-11d9-a5b4-001185ad2b89\}
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 Opens key:
001185ad2b89}\treatas
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                         HKCR\clsid{a47979d2-c419-11d9-a5b4-001185ad2b89}\treatas
 Opens key:
                         HKCU\software\classes\clsid\{a47979d2-c419-11d9-a5b4-
001185ad2b89}\progid
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                         HKCR\clsid\{a47979d2-c419-11d9-a5b4-001185ad2b89}\progid
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001185ad2b89}\inprocserver32
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001185ad2b89}\inprochandler32
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                         HKCR\clsid\a47979d2-c419-11d9-a5b4-001185ad2b89\inprochandler32
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                         HKCU\software\classes\clsid\{a47979d2-c419-11d9-a5b4-
001185ad2b89}\inprochandler
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                         HKCR \ clsid \ \{a47979d2-c419-11d9-a5b4-001185ad2b89\} \ in prochandler
 Opens key:
                         HKCU\software\classes\appid\6f2064e626e4383a5d8a9c0bdb8e9ddf.exe
                         HKCR\appid\6f2064e626e4383a5d8a9c0bdb8e9ddf.exe
 Opens key:
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                         HKLM\software\microsoft\ole\appcompat
                         HKLM\system\currentcontrolset\control\lsa
 Opens kev:
 Opens key:
                         HKLM\software\microsoft\cryptography\defaults\provider\microsoft strong
cryptographic provider
 Opens key:
                         HKLM\system\currentcontrolset\control\lsa\fipsalgorithmpolicy
 Opens key:
HKLM\system\currentcontrolset\policies\microsoft\cryptography\configuration
                         HKLM\software\policies\microsoft\cryptography
 Opens kev:
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                         HKLM\software\microsoft\cryptography
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Opens key:
                                                       HKLM\software\microsoft\cryptography\offload
   Opens key:
                                                       HKCU\software\classes\interface\{00000134-0000-0000-c000-000000000046}
                                                       HKCR\interface\{00000134-0000-0000-c000-00000000046}
   Opens kev:
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                                                       HKCU\software\classes\interface\{00000134-0000-0000-c000-
000000000046}\proxystubclsid32
   Opens key:
                                                       HKLM\system\currentcontrolset\services\bfe
   Opens key:
                                                       HKCU\software\classes\interface\{d0074ffd-570f-4a9b-8d69-199fdba5723b}
   Opens key:
                                                       HKCR\interface\{d0074ffd-570f-4a9b-8d69-199fdba5723b}
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                                                       HKCU\software\classes\interface\{d0074ffd-570f-4a9b-8d69-
   Opens key:
199fdba5723b}\proxystubclsid32
                                                       HKCR \verb|\interface| \{d0074ffd-570f-4a9b-8d69-199fdba5723b\} \verb|\proxystubclsid32| \} | The state of the state o
   Opens key:
   Opens key:
                                                       HKCU \setminus software \setminus classes \setminus clsid \setminus \{1299cf18-c4f5-4b6a-bb0f-2299f0398e27\}
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   Opens key:
                                                       HKCU \setminus software \setminus classes \setminus clsid \setminus \{1299cf18-c4f5-4b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a-bb0f-be14b6a
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2299f0398e27}\treatas
                                                       HKCR\clsid\{1299cf18-c4f5-4b6a-bb0f-2299f0398e27}\treatas
   Opens kev:
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                                                       HKCU\software\classes\clsid\{1299cf18-c4f5-4b6a-bb0f-
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   Opens kev:
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2299f0398e27}\inprochandler32
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   Opens key:
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4f0ef901a406}\proxystubclsid32
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   Opens key:
                                                       HKCU\software\classes\interface\{8a40a45d-055c-4b62-abd7-
6d613e2ceaec}\proxystubclsid32
   Opens key:
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00aa004bb851}\proxystubclsid32
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   Opens key:
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00aa00341d07}\treatas
                                                       HKCR\clsid\{b196b286-bab4-101a-b69c-00aa00341d07}\treatas
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00aa00341d07}\progid
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00aa00341d07}\inprocserver32
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00aa00341d07}\inprochandler32
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   Opens key:
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   Opens key:
                                                       HKCU\software\classes\interface\{bcd1de7e-2db1-418b-b047-4a74e101f8c1}
   Opens key:
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   Opens key:
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4a74e101f8c1}\proxystubclsid32
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   Opens key:
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                                                       HKCR\interface\{2a1c9eb2-df62-4154-b800-63278fcb8037}
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   Opens key:
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   Opens key:
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HKCU\software\classes\allfilesystemobjects\clsid Opens key:

HKCR\allfilesystemobjects\clsid Opens key: Opens key: HKCU\software\classes\.exe

Opens key: HKCR\.exe

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

HKCR\.exe\openwithprogids Opens kev:

Opens key:

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

Opens key: Opens key:

HKCU\software\microsoft\windows\currentversion\explorer\fileexts\.exe\userchoice

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\classes\exefile\shellex\iconhandler

HKCR\exefile\shellex\iconhandler Opens key:

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

Opens kev: HKCR\systemfileassociations\.exe

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

Opens key: HKCR\svstemfileassociations\.exe\shellex\iconhandler

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

Opens key: HKCR\exefile\docobject

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

Opens key: HKCR\systemfileassociations\.exe\docobject Opens key: HKCU\software\classes\exefile\browseinplace

HKCR\exefile\browseinplace Opens key:

Opens key:  $\label{lem:hkcu} \verb+KKCU\software\classes\systemfileassociations\.exe\browseinplace$ 

Opens key: HKCR\systemfileassociations\.exe\browseinplace

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

Opens key: HKCR\exefile\clsid

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

Opens kev: HKCR\svstemfileassociations\.exe\clsid

Opens key:

11e3-b3bc-806e6f6e6963}\

b029-7fe99a87c6413

Opens key:

b029-7fe99a87c641}\propertybag

 $HKCU \setminus software \setminus classes \setminus clsid \setminus \{1f486a52-3cb1-48fd-8f50-b8dc300d9f9d\}$ Opens key:

Opens key: HKCR\clsid\{1f486a52-3cb1-48fd-8f50-b8dc300d9f9d} Opens kev: HKCU\software\classes\clsid\{1f486a52-3cb1-48fd-8f50-

b8dc300d9f9d}\treatas

Opens key: HKCR\clsid\{1f486a52-3cb1-48fd-8f50-b8dc300d9f9d}\treatas HKCU\software\classes\clsid\{1f486a52-3cb1-48fd-8f50-Opens key:

b8dc300d9f9d}\progid

Opens key: HKCR\clsid\{1f486a52-3cb1-48fd-8f50-b8dc300d9f9d}\progid HKCU\software\classes\clsid\{1f486a52-3cb1-48fd-8f50-Opens key:

b8dc300d9f9d}\inprocserver32

HKCR\clsid\{1f486a52-3cb1-48fd-8f50-b8dc300d9f9d}\inprocserver32 Opens kev:

HKCU\software\classes\clsid\{1f486a52-3cb1-48fd-8f50-Opens key:

b8dc300d9f9d}\inprochandler32

 $HKCR\clsid\{1f486a52-3cb1-48fd-8f50-b8dc300d9f9d}\inprochandler32$ Opens key:

Opens key: HKCU\software\classes\clsid\{1f486a52-3cb1-48fd-8f50-

b8dc300d9f9d}\inprochandler

HKCR\clsid\{1f486a52-3cb1-48fd-8f50-b8dc300d9f9d}\inprochandler Opens kev:

Opens key:

 $HKLM \ software \ `microsoft \ `windows \ `current version \ `explorer \ `folder descriptions \ `\{1b3ea5dc-b587-4786-b587-47$ 

b4ef-bd1dc332aeae}

Opens key:

 $HKLM \ software \ icrosoft \ windows \ current version \ explorer \ folder descriptions \ \ \{1b3ea5dc-b587-4786-b5$ b4ef-bd1dc332aeae}\propertybag

Opens key:

 $\label{thm:local_hammon_hammon} \begin{tabular}{ll} HKLM \end{tabular} software \end{tabular} windows \end{tabular} current version \end{tabular} explorer \end{tabular} kindmap$ 

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

HKCR\exefile\shell Opens key:

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

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

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

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

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

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

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

HKCR\.adp Opens key:

Opens key: HKCU\software\classes\.app

Opens key: HKCR\.app

HKCU\software\classes\.asp Opens key:

Opens key: HKCR\.asp

HKCU\software\classes\.bas Opens kev:

Opens key: HKCR\.bas

Opens key: HKCU\software\classes\.bat

Opens key: HKCR\.bat

Opens key: HKCU\software\classes\.cer

Opens key: HKCR\.cer

HKCU\software\classes\.chm

Opens kev:

HKCR\.chm

Opens key:

HKCU\software\classes\.cmd Opens key:

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: 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}\progid

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

 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}\inprochandler32

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

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

00c04fb6bfc4}\inprochandler

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

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\internet

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\microsoft\internet explorer\main\featurecontrol\feature\_protocol\_lockdown Opens key: HKLM\software\microsoft\internet explorer\main\featurecontrol\feature\_protocol\_lockdown

Opens key: HKLM\software\microsoft\windows\currentversion\internet settings\zones\0

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

Opens key: HKCR\exefile\progid

Opens key:

HKLM\software\microsoft\windows\currentversion\shellcompatibility\progids\exefile

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

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

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

options\cmd.exe

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

Opens key: HKLM\software\microsoft\windows

 $\verb|nt\currentversion\appcompatflags\custom\cmd.exe|$ 

Opens key: HKLM\software\microsoft\windows

Opens key: HKLM\software\microsoft\windows\html help
Opens key: HKLM\software\microsoft\windows\help

Opens key: HKCU\software\policies\microsoft\windows\system
Opens key: HKLM\software\microsoft\command processor
Opens key: HKCU\software\microsoft\command processor

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

options\tasklist.exe

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

Opens key: HKLM\software\microsoft\windows nt\currentversion\appcompatflags\custom\tasklist.exe

Opens key: HKLM\system\currentcontrolset\control\networkprovider\hworder

Opens key: HKLM\software\microsoft\wbem\cimom

Opens key: HKLM\system\currentcontrolset\services\lanmanworkstation\parameters

Opens key: HKCU\software\classes\appid\tasklist.exe

Opens key: HKCR\appid\tasklist.exe

Opens key: HKCU\software\classes\clsid\{4590f811-1d3a-11d0-891f-00aa004b2e24}

Opens key: HKCR\clsid\{4590f811-1d3a-11d0-891f-00aa004b2e24}
Opens key: HKCU\software\classes\clsid\{4590f811-1d3a-11d0-891f-

00aa004b2e24}\treatas

00aa004b2e24}\progid

Opens key: HKCR\clsid\{4590f811-1d3a-11d0-891f-00aa004b2e24}\progid Opens key: HKCU\software\classes\clsid\{4590f811-1d3a-11d0-891f-

00aa004b2e24}\inprocserver32

Opens key: HKCR\clsid\{4590f811-1d3a-11d0-891f-00aa004b2e24}\inprocserver32

Opens key: HKCU\software\classes\clsid\{4590f811-1d3a-11d0-891f-

00aa004b2e24}\inprochandler32

Opens key: HKCR\clsid\{4590f811-1d3a-11d0-891f-00aa004b2e24}\inprochandler32

Opens key: HKCU\software\classes\clsid\{4590f811-1d3a-11d0-891f-

00aa004b2e24}\inprochandler

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

Opens key: HKCU\software\classes\clsid\{8bc3f05e-d86b-11d0-a075-00c04fb68820}

Opens key: HKCR\clsid\{8bc3f05e-d86b-11d0-a075-00c04fb68820}
Opens key: HKCU\software\classes\clsid\{8bc3f05e-d86b-11d0-a075-

00c04fb68820}\treatas

 Opens key:
 HKCR\clsid\{8bc3f05e-d86b-11d0-a075-00c04fb68820}\treatas

 Opens key:
 HKCU\software\classes\clsid\{8bc3f05e-d86b-11d0-a075

00c04fb68820}\progid

 Opens key:
 HKCR\clsid\{8bc3f05e-d86b-11d0-a075-00c04fb68820}\progid

 Opens key:
 HKCU\software\classes\clsid\{8bc3f05e-d86b-11d0-a075

00c04fb68820}\inprocserver32

Opens key: HKCR\clsid\{8bc3f05e-d86b-11d0-a075-00c04fb68820}\inprocserver32

Opens key: HKCU\software\classes\clsid\{8bc3f05e-d86b-11d0-a075-

00c04fb68820}\inprochandler32

Opens key:  $\label{eq:hkcr} \mbox{HKCR\clsid\{8bc3f05e-d86b-11d0-a075-00c04fb68820\}\inprochandler32}} \mbox{$$ \mbox{HKCR\clsid\{8bc3f05e-d86b-11d0-a075-00c04fb68820\}\inprochandler32}$} \mbox{$$ \mbox{$$$ \mbox{$$ \mbox{$$ \mbox{$$$ \mbox{$$ \mbox{$$ \mbox{$$ \mbox{$$$ \mbox{$$$}$}$}}$}}}} \mbox{$$ \mbox{$\mbox{$$ \mbox{$$$ \mbox{$$$ \mbox{$$$}$}$}}$}}} \mbox{$$ \mbox{$\mbox{$$ \mbox{$$$}$}$}}}} \mbox{$$ \mbox{$\mbox{$$$$}$}$}} \mbox{$$ \mbox{$$ \mbox{$$$}$}$}}$} \mbox{$$ \mbox{$$ \mbox{$$$$}$}$}}$} \mbox{$$ \mbox{$$ \mbox{$$$$}$}$}}$} \mbox{$$ \mbox{$$ \mbox{$$$}$}$}}$} \mbox{$$ \mbox{$$ \mbox{$$$}$}$}}$} \mbox{$$ \mbox{$$ \mbox{$$$$}$}$}}$} \mbox{$$ \mbox{$$$$}$}$} \mbox{$$ \mbox{$$$$}$}$} \mbox{$$ \mbox{$$$$}$}$} \mbox{$$\mbox{$$$}$}$}} \mbox{$$\mbox{$$$}$}$} \mbox{$$$$}$} \mbox{$$\mbox{$$$}$}$} \mbox{$$\mbox{$$$}$}$}} \mbox{$$\mbox{$$$}$}$} \mbox{$$\mbox{$$$}$}$} \mbox{$$\mbox{$$$}$}$} \mbox{$\mbox{$$}$}$} \mbox{$$\mbox{$$$}$}$} \mbox{$$\mbox{$$}$}$} \mbox{$$\mbox{$$$}$}$} \mbox{$$\mbox{$$$}$}$} \mbox{$$\mbox{$$$}$}$} \mbox{$$\mbox{$$$}$}$} \mbox{$$\mbox{$$$}$}$} \mbox{$$\mbox{$$}$}$} \mbox{$$\mbox{$$$}$}$} \mbox{$$\mbox{$$\mbox{$$$}$}$} \mbox{$\mbox{$$$}$}$} \mbox{$\mbox{$$$}$}$} \mbox{$\mbox{$$$}$} \mbox{$\mbox{$$$}$}$} \mbox{$\mb$ 

Opens key: HKCU\software\classes\clsid\{8bc3f05e-d86b-11d0-a075-

00c04fb68820}\inprochandler

Opens key: HKCR\interface\{f309ad18-d86a-11d0-a075-00c04fb68820}
Opens key: HKCU\software\classes\interface\\{f309ad18-d86a-11d0-a075-

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Opens key: HKCR\clsid\{7c857801-7381-11cf-884d-00aa004b2e24}
Opens key: HKCU\software\classes\clsid\{7c857801-7381-11cf-884d-

00aa004b2e24}\treatas

 $\begin{array}{lll} \mbox{Opens key:} & \mbox{HKCR\clsid\{7c857801-7381-11cf-884d-00aa004b2e24\}\treatas} \\ \mbox{Opens key:} & \mbox{HKCU\software\classes\clsid\{7c857801-7381-11cf-884d-10aa004b2e24\}} \\ \mbox{Opens key:} & \mbox{HKCU\software\classes\clsid\{7c857801-7381-11cf-884d-10aa004b2e24\}} \\ \mbox{Opens key:} & \mbox{HKCU\software\classes\clsid\{7c857801-7381-11cf-884d-10aa004b2e24\}} \\ \mbox{Opens key:} & \mbox{HKCU\software\classes\clsid$ 

00aa004b2e24}\progid

Opens key: HKCR\clsid\{7c857801-7381-11cf-884d-00aa004b2e24}\progid Opens key: HKCU\software\classes\clsid\{7c857801-7381-11cf-884d-

00aa004b2e24}\inprocserver32

Opens key: HKCR\clsid\{7c857801-7381-11cf-884d-00aa004b2e24}\inprocserver32

Opens key: HKCU\software\classes\clsid\{7c857801-7381-11cf-884d-

00aa004b2e24}\inprochandler32

Opens key: HKCR\clsid\{7c857801-7381-11cf-884d-00aa004b2e24}\inprochandler32

Opens key: HKCU\software\classes\clsid\{7c857801-7381-11cf-884d-

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Opens key: HKCR\clsid\\7c857801-7381-11cf-884d-00aa004b2e24\\inprochandler
Opens key: HKCU\software\classes\interface\\{d4781cd6-e5d3-44df-ad94-930efe48a887\}

 Opens key:
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 Opens key:
 HKCU\software\classes\interface\{d4781cd6-e5d3-44df-ad94-94df-ad94-

930efe48a887}\proxystubclsid32

Opens key: HKCR\interface\{d4781cd6-e5d3-44df-ad94-930efe48a887}\proxystubclsid32

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

Opens key: HKCU\software\classes\interface\{9556dc99-828c-11cf-a37e-00aa003240c7}

Opens key: HKCR\interface\{9556dc99-828c-11cf-a37e-00aa003240c7}
Opens key: HKCU\software\classes\interface\{9556dc99-828c-11cf-a37e-

00aa003240c7}\proxystubclsid32

Opens key:  $\begin{tabular}{ll} HKCR\interface \S 556dc99-828c-11cf-a37e-00aa003240c7\proxystubclsid32\\ Opens key: \\ HKCU\software \classes \clsid \S d68af00a-29cb-43fa-8504-ce99a996d9ea \S \\ \end{tabular}$ 

 Opens key:
 HKCR\clsid\{d68af00a-29cb-43fa-8504-ce99a996d9ea}

 Opens key:
 HKCU\software\classes\clsid\{d68af00a-29cb-43fa-8504

ce99a996d9ea}\treatas

 Opens key:
 HKCR\clsid\{d68af00a-29cb-43fa-8504-ce99a996d9ea}\treatas

 Opens key:
 HKCU\software\classes\clsid\{d68af00a-29cb-43fa-8504

ce99a996d9ea}\progid

Opens key: HKCR\clsid\{d68af00a-29cb-43fa-8504-ce99a996d9ea}\progid Opens key: HKCU\software\classes\clsid\{d68af00a-29cb-43fa-8504-

ce99a996d9ea}\inprocserver32

Opens key: HKCR\clsid\{d68af00a-29cb-43fa-8504-ce99a996d9ea}\inprocserver32

Opens key: HKCU\software\classes\clsid\{d68af00a-29cb-43fa-8504-

ce99a996d9ea}\inprochandler32

Opens key: HKCR\clsid\{d68af00a-29cb-43fa-8504-ce99a996d9ea}\inprochandler32

Opens key: HKCU\software\classes\clsid\{d68af00a-29cb-43fa-8504-

ce99a996d9ea}\inprochandler

Opens key:  $\label{eq:hkkcr} \begin{tabular}{ll} HKCR\clsid\d68af00a-29cb-43fa-8504-ce99a996d9ea\inprochandler \\ Opens key: \\ HKCU\software\classes\interface\{027947e1-d731-11ce-a357-000000000001} \end{tabular}$ 

Opens key: HKCR\interface\{027947e1-d731-11ce-a357-00000000001}\
Opens key: HKCU\software\classes\interface\{027947e1-d731-11ce-a357-

000000000001}\proxystubclsid32

Opens key: HKCR\interface\{027947e1-d731-11ce-a357-00000000001}\proxystubclsid32 Opens key: HKCU\software\classes\clsid\{1b1cad8c-2dab-11d2-b604-00104b703efd}

00104b703efd}\treatas

 $\label{lem:continuous} Opens \ key: \\ HKCR\clsid\{1b1cad8c-2dab-11d2-b604-00104b703efd}\ \ Vereatas \\ Opens \ key: \\ HKCU\software\classes\clsid\{1b1cad8c-2dab-11d2-b604-1d$ 

00104b703efd}\progid

00104b703efd}\inprocserver32

Opens key: HKCR\clsid\{1b1cad8c-2dab-11d2-b604-00104b703efd}\inprocserver32

Opens key: HKCU\software\classes\clsid\{1b1cad8c-2dab-11d2-b604-

00104b703efd}\inprochandler32

Opens key: HKCR\clsid\{1b1cad8c-2dab-11d2-b604-00104b703efd}\inprochandler32

HKCU\software\classes\clsid\{1b1cad8c-2dab-11d2-b604-Opens key:

00104b703efd}\inprochandler

Opens kev:  $HKCR \clsid \ \{1b1cad8c-2dab-11d2-b604-00104b703efd\} \ \ in prochandler$ 

HKCU\software\classes\interface\{1c1c45ee-4395-11d2-b60b-00104b703efd} Opens key:

Opens kev: HKCR\interface\{1c1c45ee-4395-11d2-b60b-00104b703efd} Opens key: HKCU\software\classes\interface\{1c1c45ee-4395-11d2-b60b-

00104b703efd}\proxystubclsid32

HKCR\interface\{1c1c45ee-4395-11d2-b60b-00104b703efd}\proxystubclsid32 Opens key: Opens key: HKCU\software\classes\interface\{423ec01e-2e35-11d2-b604-00104b703efd}

HKCR\interface\{423ec01e-2e35-11d2-b604-00104b703efd} Opens key: HKCU\software\classes\interface\{423ec01e-2e35-11d2-b604-Opens kev:

00104b703efd}\proxystubclsid32

Opens key:  $HKCR\interface \ \{423ec01e-2e35-11d2-b604-00104b703efd\} \ \ proxystubclsid32$ HKCU\software\classes\clsid\{eb87e1bd-3233-11d2-aec9-00c04fb68820} Opens key:

Opens key: HKCR\clsid\{eb87e1bd-3233-11d2-aec9-00c04fb68820} Opens key: HKCU\software\classes\clsid\{eb87e1bd-3233-11d2-aec9-

00c04fb68820}\treatas

Opens key: HKCR\clsid\{eb87e1bd-3233-11d2-aec9-00c04fb68820}\treatas Opens key: HKCU\software\classes\clsid\{eb87e1bd-3233-11d2-aec9-

00c04fb68820}\progid

Opens key: HKCR\clsid\{eb87e1bd-3233-11d2-aec9-00c04fb68820}\progid Opens key: HKCU\software\classes\clsid\{eb87e1bd-3233-11d2-aec9-

00c04fb68820}\inprocserver32

Opens key: HKCR\clsid\{eb87e1bd-3233-11d2-aec9-00c04fb68820}\inprocserver32

Opens key: HKCU\software\classes\clsid\{eb87e1bd-3233-11d2-aec9-

00c04fb68820}\inprochandler32

Opens key:  $HKCR\clsid\\{eb87e1bd-3233-11d2-aec9-00c04fb68820}\\{inprochandler32}$ 

Opens key: HKCU\software\classes\clsid\{eb87e1bd-3233-11d2-aec9-

00c04fb68820}\inprochandler

 $HKCR\clsid\{eb87e1bd-3233-11d2-aec9-00c04fb68820}\) in prochandler$ Opens key:

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

manager[cwdillegalindllsearch]

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

Oueries value:

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

HKCU\control panel\desktop[preferreduilanguages] Oueries value:

 $\label{lem:hkcu} \verb|HKCU| control panel| desktop| \verb|muicached[machinepreferreduil] anguages]| \\$ Oueries value:

Queries value:

 $HKLM \setminus software \setminus microsoft \setminus windows \setminus current version \setminus side by side [preferex ternal manifest]$ Oueries value: HKLM\system\currentcontrolset\control\nls\sorting\versions[]

HKLM\system\currentcontrolset\control\session manager[safedllsearchmode] Queries value: HKLM\software\microsoft\windows nt\currentversion\image file execution Oueries value:

options\dllnxoptions[usefilter]

HKLM\software\microsoft\windows nt\currentversion\image file execution Oueries value:

options\dllnxoptions[msvbvm60.dll]

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

 $nt \verb|\currentversion| compatibility 32[6f2064e626e4383a5d8a9c0bdb8e9ddf]|$ 

HKLM\software\microsoft\windows Oueries value:

nt\currentversion\windows[loadappinit dlls]

Oueries value: HKLM\software\microsoft\ole[pageallocatorusesystemheap] HKLM\software\microsoft\ole[pageallocatorsystemheapisprivate] Queries value: Oueries value: HKLM\svstem\currentcontrolset\control\nls\customlocale[en-us] Queries value: HKLM\system\currentcontrolset\control\nls\extendedlocale[en-us] HKLM\system\currentcontrolset\control\nls\locale[00000409] Oueries value: HKLM\system\currentcontrolset\control\nls\language groups[1] Queries value:

HKLM\software\microsoft\windows\windows error reporting\wmr[disable] Oueries value:

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

manager[safeprocesssearchmode]

Oueries value: HKLM\system\currentcontrolset\control\nls\codepage[932] Queries value: HKLM\system\currentcontrolset\control\nls\codepage[949] Queries value: HKLM\system\currentcontrolset\control\nls\codepage[950] Oueries value: HKLM\system\currentcontrolset\control\nls\codepage[936] HKLM\system\currentcontrolset\services\disk\enum[0] Oueries value:

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

Oueries value:

HKLM\svstem\setup[oobeinprogress] Oueries value: Queries value: HKLM\system\setup[systemsetupinprogress]

Oueries value: HKLM\software\microsoft\sqmclient\windows[ceipenable]

Oueries value: HKLM\system\currentcontrolset\services\crypt32[debugheapflags]

Oueries value: HKLM\software\microsoft\windows\currentversion\internet

settings[disableimprovedzonecheck]

 $\label{lem:hklm} \verb+Kklm\+ software\+ policies\+ microsoft\+ windows\+ current version\+ internet$ Oueries value:

settings[security\_hklm\_only]

Queries value: HKLM\system\currentcontrolset\control\wmi\security[0cfe0455-93ba-440d-

a3fe-553973d0b7231

Oueries value: HKLM\system\currentcontrolset\control\wmi\security[797fabac-7b58-4796-

b924-d51178a59ce41

HKCU\software\microsoft\windows\currentversion\internet Oueries value:

settings[fromcachetimeout]

```
Oueries value:
                                      HKLM\software\policies\microsoft\windows\currentversion\internet
settings[secureprotocols]
                                      \label{lem:hkcu} \verb+KKCU\+ software\+ policies\+ microsoft\+ windows\+ current version\+ internet
  Queries value:
settings[secureprotocols]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[secureprotocols]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[certificaterevocation]
  Queries value:
                                      \label{lem:hkcu} \verb+KKCU \software \microsoft \windows \current version \cite{thm:lem:hkcu} in terms to the lemma of the 
settings[disablekeepalive]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[disablepassport]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[idnenabled]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[cachemode]
                                      HKLM\software\policies\microsoft\windows\currentversion\internet
  Oueries value:
settings[enablehttp1_1]
                                      HKCU\software\policies\microsoft\windows\currentversion\internet
  Queries value:
settings[enablehttp1_1]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[enablehttp1_1]
                                      HKLM \verb|\software\policies\microsoft\windows\currentversion\ | internet
  Oueries value:
settings[proxyhttp1.1]
                                      HKCU\software\policies\microsoft\windows\currentversion\internet
  Queries value:
settings[proxyhttp1.1]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[proxyhttp1.1]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[enablenegotiate]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[disablebasicoverclearchannel]
                                      HKCU\software\microsoft\internet
  Queries value:
explorer\main\featurecontrol[feature clientauthcertfilter]
  Queries value:
                                      HKLM\software\microsoft\internet
explorer\main\featurecontrol[feature_clientauthcertfilter]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[clientauthbuiltinui]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[syncmode5]
  Queries value:
                                      HKLM\software\microsoft\windows\currentversion\internet
settings\5.0\cache[sessionstarttimedefaultdeltasecs]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings\5.0\cache[signature]
  Oueries value:
                                      HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\content[peruseritem]
  Queries value:
                                      \label{lem:hklm} \verb+Kklm \+ software + microsoft + windows + current version + internet
settings\5.0\cache\content[peruseritem]
  Oueries value:
HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{352481e8-33be-4251-
ba85-6007caedcf9d}[category]
  Oueries value:
ba85-6007caedcf9d}[name]
  Oueries value:
HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{352481e8-33be-4251-
ba85-6007caedcf9d}[parentfolder]
  Oueries value:
HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{352481e8-33be-4251-
ba85-6007caedcf9d}[description]
  Queries value:
HKLM \ software \ icrosoft \ windows \ current version \ explorer \ folder descriptions \ \ \ 352481e8-33be-4251-4251-4251e
ba85-6007caedcf9d}[relativepath]
  Oueries value:
ba85-6007caedcf9d}[parsingname]
  Queries value:
HKLM \ software \ icrosoft \ windows \ current version \ explorer \ folder descriptions \ \ \ 352481e8-33be-4251-4251-4251e
ba85-6007caedcf9d}[infotip]
  Oueries value:
HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{352481e8-33be-4251-
ba85-6007caedcf9d}[localizedname]
  Oueries value:
HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{352481e8-33be-4251-
ba85-6007caedcf9d}[icon]
  Oueries value:
HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{352481e8-33be-4251-
ba85-6007caedcf9d}[security]
  Oueries value:
HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{352481e8-33be-4251-
ba85-6007caedcf9d}[streamresource]
  Oueries value:
```

ba85-6007caedcf9d}[streamresourcetype]

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '{352481e8-33be-4251-ba85-6007} caed \ 'folder descriptions' \ 'folder descr$ 

Queries value:

 $HKLM \ software \ `microsoft \ windows \ `current version \ explorer \ folder descriptions \ \ \{352481e8-33be-4251-ba85-6007 caed \ folder \ descriptions \ \ \ \ \} \ [roamable]$ 

Oueries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '{352481e8-33be-4251-ba85-6007} caed \ 'folder \ 'folder \ 'folder \ 'explorer' \ 'folder \ 'folde$ 

Oueries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{352481e8-33be-4251-ba85-6007 caed \ folder \ 'folder \ 'folder \ 'explorer' \ 'folder \ 'folder$ 

Oueries value:

 $HKLM \software \microsoft \windows \current version \explorer \folder descriptions \folder \$ 

Queries value:

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{352481e8-33be-4251-ba85-6007 caed \ folder type id]$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{352481e8-33be-4251-ba85-6007 \ caedcf9d\} \ [initfolder \ handler]$ 

Queries value:

HKCU\software\microsoft\windows\currentversion\explorer\user shell

folders[cache]

Queries value:

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} [name]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} \ [parent folder]$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} \ [description]$ 

Queries value:

 $\label{lem:hklmsoftware} Hklm\software\microsoft\windows\currentversion\explorer\folderdescriptions\fifth{1}{5}2785-6fba-4fcf-9d55-7b8e7f157091\fifth{1}{1}{7}lelative\path]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} \ [parsing name]$ 

Queries value:

 $\label{thm:local-problem} HKLM \software \microsoft \windows \current version \explorer \folder descriptions \fill 15 \folder \folde$ 

Queries value:

 $\label{thm:localized} $HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{f1b32785-6fba-4fcf-9d55-7b8e7f157091\}[localizedname]}$ 

Queries value:

Queries value:

 $HKLM \ software \ `microsoft \ `windows \ `current version \ `explorer \ folder descriptions \ `\{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} [security]$ 

Oueries value:

 $HKLM \label{lem:hkklm} HKLM \label{lem:hkklm} HKLM \label{lem:hkklm} Software \mbox{$$ f1b32785-6fba-4fcf-9d55-7b8e7f157091} [stream resource]$ 

Queries value:

 $\label{lem:hklm} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\fi1b32785-6fba-4fcf-9d55-7b8e7f157091\fixtreamresourcetype]$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ (f1b32785-6fba-4fcf-9d55-7b8e7f157091) \ [local redirectonly]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} \ [roamable]$ 

Queries value:

 $\label{lem:hkkm} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\fifth{1}{5}2785-6fba-4fcf-9d55-7b8e7f157091\fifth{1}{5}[precreate]$ 

Queries value:

 $\label{thm:local-prop} $$HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{f1b32785-6fba-4fcf-9d55-7b8e7f157091\}[stream]}$ 

Oueries value:

 $\label{lem:hklmsoftware} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\fifth{1}{5}2785-6fba-4fcf-9d55-7b8e7f157091\fifth{1}{5}publishexpandedpath\fifth{1}{5}$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} [attributes]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ (f1b32785-6fba-4fcf-1b32785-6fba-4fba-4fcf-1b3278-6fba-4fcf-$ 

9d55-7b8e7f157091}[foldertypeid]

Oueries value:

9d55-7b8e7f157091}[initfolderhandler]

Oueries value:

 $\label{lem:hkcu} \mbox{\tt HKCU\software\mbox{\tt microsoft\windows\currentversion\explorer\user\ shell}$ 

folders[local appdata]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[category]

Oueries value:

9afe-ea3317b67173}[name]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[parentfolder]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[description]

Queries value:

 $HKLM \ software \ icrosoft \ windows \ current version \ explorer \ folder descriptions \ \ \{5e6c858f-0e22-4760-164e4464, 1997-19980000, 1997-1998, 1997-1998, 1997-1998, 1997-1998, 1997-1998, 1997$ 9afe-ea3317b67173}[relativepath]

Queries value:

9afe-ea3317b67173}[parsingname]

Queries value:

 $HKLM \ software \ icrosoft \ windows \ current version \ explorer \ folder descriptions \ \ \{5e6c858f-0e22-4760-164e4464, 1997-19980000, 1997-1998, 1997-1998, 1997-1998, 1997-1998, 1997-1998, 1997$ 9afe-ea3317b67173}[infotip]

Queries value:

9afe-ea3317b67173}[localizedname]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[icon]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[security]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[streamresource]

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version' \ explorer \ 'folder descriptions \ '\xi 5e6c858f-0e22-4760-1000 \ explorer \ 'folder descriptions' \ 'folder desc$ 9afe-ea3317b67173}[streamresourcetype]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[localredirectonly]

Queries value:

9afe-ea3317b67173}[roamable]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[precreate]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[stream]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[publishexpandedpath]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}[attributes]

Queries value:

9afe-ea3317b67173}[foldertypeid]

Oueries value:

9afe-ea3317b67173}[initfolderhandler]

Queries value: 2160590473-689474908-1361669368-1002[profileimagepath]

Queries value: HKCU\software\microsoft\windows\currentversion\internet

settings\5.0\cache\content[cacheprefix]

Queries value: HKCU\software\microsoft\windows\currentversion\internet

settings\5.0\cache\content[cachelimit]

HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings\5.0\cache\cookies[peruseritem]

 $\label{lem:hklm} \verb+ HKLM \software \microsoft \windows \current version \cite{thmosoft} internet$ Queries value:

settings\5.0\cache\cookies[peruseritem]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[category]

Oueries value:

908e-08a611b84ff6}[name]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[parentfolder]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[description]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[relativepath]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[parsingname]

Queries value:

908e-08a611b84ff6}[infotip]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[localizedname]

908e-08a611b84ff6}[icon]

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[security]

908e-08a611b84ff6}[streamresource]

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[streamresourcetype]

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[localredirectonly]

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[roamable]

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[precreate]

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[stream]

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[publishexpandedpath]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[attributes]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[foldertypeid]

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}[initfolderhandler]

Queries value:

HKCU\software\microsoft\windows\currentversion\explorer\user shell

folders[cookies]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6a03a-e3ef65729f3d}[category]

Oueries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '{3}eb685db-65f9-4cf6-eps \ 'explorer' \ 'explorer'' \ 'explorer' \ 'explorer'' \$ a03a-e3ef65729f3d}[name]

Queries value:

a03a-e3ef65729f3d}[parentfolder]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6a03a-e3ef65729f3d}[description]

Queries value:

a03a-e3ef65729f3d}[relativepath]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6a03a-e3ef65729f3d}[parsingname]

Queries value:

a03a-e3ef65729f3d}[infotip]

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6a03a-e3ef65729f3d}[localizedname]

Oueries value:

a03a-e3ef65729f3d}[icon]

Queries value:

 $\label{lem:hklmsoftware} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\}[security]$ 

Oueries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [stream resource]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [stream resource type]$ 

Oueries value:

 $\label{lem:hklmsoftware} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\}[localredirectonly]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ 'aeb685db-65f9-4cf6-a03a-e3ef65729f3d \ [roamable]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\}[precreate]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [stream]$ 

Oueries value

 $HKLM \ software \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [publish \ expanded path]$ 

Queries value

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [attributes]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [folder type id]$ 

Oueries value

 $\label{lem:hklm} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\}[initfolderhandler]$ 

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

folders[appdata]

Queries value: HKCU\software\microsoft\windows\currentversion\internet

settings\5.0\cache\cookies[cacheprefix]

Oueries value: HKCU\software\microsoft\windows\currentversion\internet

settings\5.0\cache\cookies[cachelimit]

Queries value: HKCU\software\microsoft\windows\currentversion\internet

settings\5.0\cache\history[peruseritem]

 $Queries \ value: \\ HKLM\ software\ microsoft\ windows\ current version\ internet$ 

settings\5.0\cache\history[peruseritem]

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{d9dc8a3b-b784-432e-a781-5a1130a75963\} \ [category]$ 

Queries value:

 $\label{lem:hklm} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{d9dc8a3b-b784-432e-a781-5a1130a75963\}[name]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{d9dc8a3b-b784-432e-a781-5a1130a75963\} \ [parent folder]$ 

Queries value:

 $\label{lem:hklmsoftware} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{d9dc8a3b-b784-432e-a781-5a1130a75963\}\[description]$ 

Queries value:

 $HKLM \ software \ icrosoft \ windows \ current version \ (d9dc8a3b-b784-432e-a781-5a1130a75963) \ [relative path]$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{d9dc8a3b-b784-432e-a781-5a1130a75963\} \ [parsing name]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{d9dc8a3b-b784-432e-a781-5a1130a75963\} \ [infotip]$ 

Oueries value:

 $\label{lem:hklm} HKLM \software \microsoft \windows \current version \explorer \folder descriptions \folds a 3b-b784-432e-a781-5a1130a75963 \flocalized name \cite{Alicenter} \footnote{Alicenter} \$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{d9dc8a3b-b784-432e-a781-5a1130a75963\}[icon]$ 

Queries value:

 $\label{lem:hkkm} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{d9dc8a3b-b784-432e-a781-5a1130a75963\}[security]$ 

Queries value:

 $\label{lem:hklmsoftware} Hklm\software\microsoft\windows\currentversion\explorer\folderdescriptions\{d9dc8a3b-b784-432e-a781-5a1130a75963\}[streamresource]$ 

Queries value:

 $HKLM\software\mbox{microsoft\windows\currentversion\explorer\folderdescriptions} \{d9dc8a3b-b784-432e-a781-5a1130a75963\} [streamresourcetype]$ 

Queries value:

 $\label{lem:hklmsoftwaremicrosoftwindows} current version \end{align* lem:hklmsoftware in the software in the$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ (a9dc8a3b-b784-432e-b784-4$ 

```
a781-5a1130a75963}[roamable]
   Oueries value:
a781-5a1130a75963}[precreate]
   Oueries value:
HKLM \ software \ `microsoft \ `windows \ `current version \ `explorer \ `folder descriptions \ `\{d9dc8a3b-b784-432e-draward \ and \ and
a781-5a1130a75963}[stream]
   Oueries value:
a781-5a1130a75963}[publishexpandedpath]
   Oueries value:
HKLM \ software \ `microsoft \ `windows \ `current version \ `explorer \ `folder descriptions \ `\{d9dc8a3b-b784-432e-draward \ and \ and
a781-5a1130a75963}[attributes]
   Oueries value:
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   Oueries value:
a781-5a1130a75963}[initfolderhandler]
                                              \label{lem:hkcu} \verb+KKCU \software \verb+ microsoft \verb+ windows \verb+ current version \verb+ explorer \verb+ user shell
   Queries value:
folders[history]
                                              HKCU\software\microsoft\windows\currentversion\internet
   Queries value:
settings\5.0\cache\history[cacheprefix]
                                              HKCU\software\microsoft\windows\currentversion\internet
   Queries value:
settings\5.0\cache\history[cachelimit]
                                             HKCU\software\microsoft\windows\currentversion\internet
   Queries value:
settings\5.0\cache\extensible cache\domstore[cacherepair]
   Queries value:
                                             HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\domstore[cachepath]
                                              HKCU\software\microsoft\windows\currentversion\internet
   Queries value:
settings\5.0\cache\extensible cache\domstore[cacheprefix]
   Queries value:
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settings\5.0\cache\extensible cache\domstore[cachelimit]
                                             HKCU\software\microsoft\windows\currentversion\internet
   Queries value:
settings\5.0\cache\extensible cache\domstore[cacheoptions]
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settings\5.0\cache\extensible cache\feedplat[cacherepair]
   Queries value:
                                             HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\feedplat[cachepath]
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   Queries value:
settings\5.0\cache\extensible cache\feedplat[cacheprefix]
   Queries value:
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settings\5.0\cache\extensible cache\feedplat[cachelimit]
   Queries value:
                                             HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\feedplat[cacheoptions]
                                             HKCU\software\microsoft\windows\currentversion\internet
   Queries value:
settings\5.0\cache\extensible cache\iecompat[cacherepair]
   Queries value:
                                             HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\iecompat[cachepath]
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settings\5.0\cache\extensible cache\iecompat[cacheprefix]
   Oueries value:
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settings\5.0\cache\extensible cache\iecompat[cachelimit]
   Queries value:
                                             HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\iecompat[cacheoptions]
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settings\5.0\cache\extensible cache\ietld[cacherepair]
   Oueries value:
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settings\5.0\cache\extensible cache\ietld[cachepath]
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   Queries value:
settings\5.0\cache\extensible cache\ietld[cacheprefix]
   Queries value:
                                             \label{lem:hkcu} \verb+KCU \software \verb+microsoft \verb+windows \verb+current version \verb+\internet+ \\
settings\5.0\cache\extensible cache\ietld[cachelimit]
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   Oueries value:
settings\5.0\cache\extensible cache\ietld[cacheoptions]
   Oueries value:
                                              HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\privacie:[cacherepair]
   Queries value:
                                             \label{lem:hkcu} \verb+KCU \software \verb+microsoft \verb+windows \verb+current version \verb+\internet+ \\
settings\5.0\cache\extensible cache\privacie:[cachepath]
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   Oueries value:
settings\5.0\cache\extensible cache\privacie:[cacheprefix]
   Oueries value:
                                              HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\privacie:[cachelimit]
   Queries value:
                                             HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\privacie:[cacheoptions]
                                              \label{lem:hkcu} \verb+KKCU\+ software\+ policies\+ microsoft\+ windows\+ current version\+ internet
   Oueries value:
settings[enableautoproxyresultcache]
   Queries value:
                                              HKCU\software\policies\microsoft\windows\currentversion\internet
settings[displayscriptdownloadfailureui]
```

Queries value: HKCU\software\policies\microsoft\windows\currentversion\internet settings[mbcsservername]
Queries value: HKCU\software\policies\microsoft\windows\currentversion\internet settings[mbcsapiforcrack]

```
Oueries value:
                           HKCU\software\policies\microsoft\windows\currentversion\internet
settings[utf8servernameres]
 Queries value:
                           HKCU\software\microsoft\windows\currentversion\internet
settings[disableworkerthreadhibernation]
                           HKLM\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[disableworkerthreadhibernation]
 Queries value:
                           HKCU\software\microsoft\windows\currentversion\internet
settings[disablereadrange]
 Queries value:
                           HKCU\software\microsoft\windows\currentversion\internet
settings[socketsendbufferlength]
                           HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[socketreceivebufferlength]
                          HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[keepalivetimeout]
                           HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[maxhttpredirects]
                          HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[maxconnectionsperserver]
                          HKLM\software\microsoft\windows\currentversion\internet
 Queries value:
settings[maxconnectionsperserver]
                           HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[maxconnectionsper1_0server]
 Oueries value:
                          HKLM\software\microsoft\windows\currentversion\internet
settings[maxconnectionsper1_0server]
                          HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[maxconnectionsperproxy]
                           HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[serverinfotimeout]
 Oueries value:
                           HKCU\software\microsoft\windows\currentversion\internet
settings[connecttimeout]
                           HKLM\software\microsoft\windows\currentversion\internet
 Oueries value:
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 Queries value:
settings[connectretries]
                           HKLM\software\microsoft\windows\currentversion\internet
 Queries value:
settings[connectretries]
                           HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[sendtimeout]
                           HKLM\software\microsoft\windows\currentversion\internet
 Queries value:
settings[sendtimeout]
 Queries value:
                           HKCU\software\microsoft\windows\currentversion\internet
settings[receivetimeout]
                           HKLM\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[receivetimeout]
                           HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[disablentlmpreauth]
 Queries value:
                           HKCU\software\microsoft\windows\currentversion\internet
settings[scavengecachelowerbound]
                          HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[certcachenovalidate]
 Oueries value:
                           HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache[scavengecachefilelifetime]
                           HKCU\software\policies\microsoft\windows\currentversion\internet
 Queries value:
settings\5.0\cache[scavengecachefilelimit]
                          HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings\5.0\cache[scavengecachefilelimit]
 Queries value:
                          HKLM\software\microsoft\windows\currentversion\internet
settings\5.0\cache[scavengecachefilelimit]
 Oueries value:
                           HKCU\software\microsoft\windows\currentversion\internet
settings[httpdefaultexpirytimesecs]
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 Queries value:
settings[ftpdefaultexpirytimesecs]
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 Queries value:
explorer\main\featurecontrol\feature_disable_unicode_handle_closing_callback[6f2064e626e4383a5d8a9c0bdb8e9ddf.exe]
 Queries value:
                          HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_disable_unicode_handle_closing_callback[*]
                          HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[disablecachingofsslpages]
 Queries value:
                           HKCU\software\microsoft\windows\currentversion\internet
settings[perusercookies]
 Queries value:
                           HKCU\software\microsoft\windows\currentversion\internet
settings[leashlegacycookies]
                          HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[dialupuselansettings]
 Queries value:
                          HKLM\software\microsoft\windows\currentversion\internet
settings[dialupuselansettings]
 Queries value:
                           \label{lem:hkcu} \mbox{\tt HKCU\software\mbox{\tt microsoft\windows\currentversion\linearing}} \mbox{\tt internet}
settings[sendextracrlf]
                           HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[wpadsearchalldomains]
 Queries value:
                           \label{lem:hkcu} \verb+KKCU \software \microsoft \windows \current version \cite{thm:lem:hkcu} in terms to the lemma soft \cite{thm:lem:hkcu} and \cite{thm:lem:hkcu} are \cite{thm:lem:hkcu}.
settings[bypasshttpnocachecheck]
```

 $\label{lem:hklm} \verb+Kklm \+ software + microsoft + windows + current version + internet$ 

Queries value:

```
settings[bypasshttpnocachecheck]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[bypasssslnocachecheck]
  Queries value:
                                      HKLM\software\microsoft\windows\currentversion\internet
settings[bypasssslnocachecheck]
  Queries value:
                                      \label{lem:hklm} \verb+ HKLM \software \microsoft \windows \current version \cite{thmosoft} internet
settings[enablehttptrace]
                                      \label{lem:hkcu} \verb+KKCU \software \microsoft \windows \current version \current \end{tensor}
  Oueries value:
settings[nocheckautodialoverride]
                                      HKLM\software\microsoft\windows\currentversion\internet
  Queries value:
settings[nocheckautodialoverride]
  Queries value:
                                      \label{lem:hkcu} \verb+KKCU \software \microsoft \windows \current version \cite{thm:lem:hkcu} in terms to the lemma substitution \cite{thm:lem:hkcu} and \cite{thm:lem:hkcu} are \cite{thm:lem:hkcu}.
settings[dontusednsloadbalancing]
  Queries value:
                                      HKLM\software\microsoft\windows\currentversion\internet
settings[dontusednsloadbalancing]
                                      HKLM\software\microsoft\windows\currentversion\internet
  Queries value:
settings[sharecredswithwinhttp]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[mimeexclusionlistforcache]
                                      \label{lem:hkcu} \verb+KKCU\+ software\+ microsoft\+ windows\+ current version\+ internet
  Queries value:
settings[headerexclusionlistforcache]
  Queries value:
                                      HKCU\software\microsoft\windows\currentversion\internet
settings[dnscacheenabled]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[dnscacheentries]
                                      \label{lem:hkcu} \verb+KKCU\+ software\+ microsoft\+ windows\+ current version\+ internet
  Queries value:
settings[dnscachetimeout]
                                      \label{lem:hkcu} \verb+KKCU \software \microsoft \windows \current version \current \c
  Queries value:
settings[warnonpost]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[warnalwaysonpost]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[warnonzonecrossing]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[warnonbadcertrecving]
  Queries value:
                                      HKCU\software\microsoft\windows\currentversion\internet
settings[warnonpostredirect]
  Queries value:
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settings[alwaysdrainonredirect]
                                      HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[warnonhttpstohttpredirect]
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HKLM\svstem\currentcontrolset\control\lsa\accessproviders[martaextension]
                                      HKLM\system\currentcontrolset\services\ldap[ldapclientintegrity]
  Queries value:
  Oueries value:
                                      HKLM\system\currentcontrolset\services\ldap[useoldhostresolutionorder]
  Queries value:
                                      HKLM\system\currentcontrolset\services\ldap[usehostnameasalias]
  Queries value:
                                      HKLM\software\microsoft\windows\currentversion\internet
settings[tcpautotuning]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters[winsock_registry_version]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters[namespace callout]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9[serial_access_num]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9[next_catalog_entry_id]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol catalog9[num catalog entries]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000001[packedcatalogitem]
  Queries value:
Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000003[packedcatalogitem]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000004[packedcatalogitem]
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HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ protocol\_catalog \ entries \ 0000000000005 \ [packed catalog item]
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HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000006[packedcatalogitem]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000007[packedcatalogitem]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000008[packedcatalogitem]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000009[packedcatalogitem]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000010[packedcatalogitem]
  Oueries value:
```

 $HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ protocol\_catalog \ entries \ 000000000011 \ [packed catalog item]$ 

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ protocol\_catalog \ entries \ (0000000000012 [packed catalog item]) \ details \$ 

Queries value:

Queries value:

- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000013[packedcatalogitem] Oueries value:

- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000016[packedcatalogitem]

  Oueries value:
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- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5[serial\_access\_num]
   Oueries value:
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  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000001[librarypath]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000001[displaystring]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000001[providerid]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000001[addressfamily]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000001[supportednamespace]
  Queries value:
- $\label{lem:hklmsystem} HKLM \system \current controls et \services \winsock 2 \parameters \namespace\_catalog 5 \catalog\_entries \namespace\_catal$
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000001[version] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000001[storesserviceclassinfo]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000001[providerinfo] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000002[librarypath]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[displaystring]
  Queries value:
- $HKLM \ system \ current controls et \ services \ winsock 2 \ parameters \ names pace\_catalog 5 \ catalog\_entries \ 00000000000002 [providerid] \ Queries \ value:$
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[addressfamily]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\0000000000002[supportednamespace]
   Oueries value:
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  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[version]
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\0000000000002[storesserviceclassinfo]

  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[providerinfo]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000003[librarypath] Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000003[displaystring]
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  Oueries value:
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- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000003[supportednamespace]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000003[enabled]
  Oueries value:
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  Queries value:
- $HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ namespace\_catalog5 \ catalog\_entries \ 000000000003 \ [storesservice class info] \ Queries \ value:$
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000003[providerinfo]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[librarypath]
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[displaystring] Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[providerid]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[addressfamily]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\0000000000004[supportednamespace]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[enabled]
  Oueries value:
- $HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ namespace\_catalog \ set alog\_entries \ 000000000000004 \ [version]$

Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000004[storesserviceclassinfo] Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000004[providerinfo] Oueries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space\_catalog \ (catalog\_entries \ 00000000005[library path])$ Oueries value:

Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000005[providerid] Oueries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space\_catalog 5 \ (catalog\_entries \ 0000000000005 \ [address family]$ Oueries value:

Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000005[enabled] Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000005[version] Oueries value:

 $HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ names pace\_catalog \ set in \ services \ winsock 2 \ parameters \ names \ pace\_catalog \ entries \ 00000000000005 \ [storesserviceclass \ info]$ Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000005[providerinfo] Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000006[librarypath] Queries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ names pace\_catalog 5 \ (catalog\_entries \ 000000000006 \ [displaystring]$ 

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space\_catalog \ services \ winsock 2 \ parameters \ name space\_catalog \ services \ winsock 2 \ parameters \ name space\_catalog \ services \ winsock 2 \ parameters \ name space\_catalog \ services \ winsock 2 \ parameters \ name space\_catalog \ services \ winsock 2 \ parameters \ name space\_catalog \ services \ winsock 2 \ parameters \ name space\_catalog \ services \ winsock 2 \ parameters \ name space\_catalog \ services \ winsock 2 \ parameters \ name space\_catalog \ services \ winsock 2 \ parameters \ name space\_catalog \ services \ name space\_catalog \ na$ Oueries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space\_catalog 5 \ (catalog\_entries \ 0000000000006 \ [address family]$ Oueries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space\_catalog 5 \ (catalog\_entries \ 000000000006 [supported name space]]$ 

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace catalog5\catalog entries\000000000006[enabled] Oueries value:

Oueries value:

 $HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ namespace\_catalog 5 \ catalog\_entries \ 0000000000006 [provider info]]$ Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters[ws2\_32numhandlebuckets]

Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters[ws2 32spincount] HKCU\software\microsoft\windows\currentversion\internet Oueries value:

settings\wpad[wpadoverride]

Queries value: HKCU\software\microsoft\windows\currentversion\internet

settings[enableautodial]

HKCU\software\microsoft\windows\currentversion\internet Oueries value:

settings[nonetautodial] Oueries value:

HKCU\software\microsoft\windows\currentversion\internet settings[globaluseroffline]

Queries value: HKCU\software\microsoft\windows\currentversion\internet

settings[badproxyexpirestime]

HKLM\software\microsoft\internet

HKLM\software\microsoft\windows\currentversion\internet Oueries value:

settings[disablebranchcache]

Queries value: explorer\main\featurecontrol\feature http username password disable[6f2064e626e4383a5d8a9c0bdb8e9ddf.exel

Oueries value: HKLM\software\microsoft\internet

explorer\main\featurecontrol\feature\_http\_username\_password\_disable[\*]

HKLM\software\microsoft\tracing[enableconsoletracing] Queries value:

Oueries value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[enablefiletracing]

Oueries value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[filetracingmask]

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[enableconsoletracing]

Oueries value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[consoletracingmask]

Oueries value:

 $HKLM \setminus software \setminus microsoft \setminus tracing \setminus 6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[maxfilesize]$ 

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf rasapi32[filedirectory] Queries value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasmancs[enablefiletracing]

Oueries value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasmancs[filetracingmask]

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasmancs[enableconsoletracing]

Oueries value:

Oueries value:

 $HKLM \setminus software \setminus microsoft \setminus tracing \setminus 6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasmancs [maxfilesize]$ 

Oueries value: HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf rasmancs[filedirectory] Oueries value: HKLM\system\currentcontrolset\control\sqmservicelist[sqmservicelist] Queries value: HKLM\software\microsoft\windows nt\currentversion\profilelist[programdata] Queries value: HKLM\software\microsoft\sqmclient\windows\disabledprocesses[52f82e4b] Oueries value: HKLM\software\microsoft\sqmclient\windows\disabledsessions[machinethrottling] Oueries value: HKLM\software\microsoft\sqmclient\windows\disabledsessions[globalsession] HKLM\software\policies\microsoft\windows\currentversion\internet Oueries value: settings[proxysettingsperuser] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings[migrateproxy] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[proxyenable] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings[proxyserver] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[proxyoverride] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[autoconfigurl] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings\connections[savedlegacysettings] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings\connections[defaultconnectionsettings] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[autoconfigcustomua] HKCR\autoproxytypes\application/x-internet-signup[dllfile] Oueries value: HKCR\autoproxytypes\application/x-internet-signup[fileextensions] Queries value: Queries value: HKCR\autoproxytypes\application/x-internet-signup[default]  ${\tt HKCR} \verb| autoproxytypes \verb| application/x-internet-signup[flags]|\\$ Queries value:  $HKCR \verb|\| autoproxytypes \verb|\| application/x-ns-proxy-autoconfig[dllfile]|$ Queries value: Queries value: HKCR\autoproxytypes\application/x-ns-proxy-autoconfig[fileextensions] Oueries value: HKCR\autoproxytypes\application/x-ns-proxy-autoconfig[default] HKCR\autoproxytypes\application/x-ns-proxy-autoconfig[flags] Queries value: Oueries value: HKLM\system\currentcontrolset\services\dnscache\parameters[queryadaptername] HKLM\system\currentcontrolset\services\tcpip\parameters[disableadapterdomainname] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[usedomainnamedevolution] Oueries value: HKLM\system\currentcontrolset\services\tcpip\parameters[usedomainnamedevolution] Oueries value: HKLM\system\currentcontrolset\services\dnscache\parameters[domainnamedevolutionlevel] Queries value:  $HKLM \setminus system \setminus current control set \setminus services \setminus dnscache \setminus parameters [prioritize record data]$ Oueries value: HKLM\system\currentcontrolset\services\tcpip\parameters[prioritizerecorddata] Oueries value: HKLM\system\currentcontrolset\services\dnscache\parameters[allowunqualifiedquery] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[allowunqualifiedquery] Oueries value: HKLM\system\currentcontrolset\services\dnscache\parameters[appendtomultilabelname] Oueries value:  $HKLM \setminus system \setminus current control set \setminus services \setminus dns cache \setminus parameters [screen badtlds]$ Queries value:  $\label{local-parameters} $$HKLM\system\current controlset\services\dnscache\parameters[screenunreachableservers]$$$ Queries value: Queries value: HKLM\svstem\currentcontrolset\services\dnscache\parameters[dvnamicserverguervorder] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[filterclusterip] Queries value: Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[useedns] Oueries value:  $HKLM \setminus system \setminus current control set \setminus services \setminus dns cache \setminus parameters [dns secure name query fall back]$ HKLM\system\currentcontrolset\services\dnscache\parameters[enabledaforallnetworks] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[directaccessqueryorder] Oueries value: HKLM\system\currentcontrolset\services\dnscache\parameters[queryipmatching]

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

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

Oueries value:

Oueries value:

```
HKLM\system\currentcontrolset\services\tcpip\parameters[disabledynamicupdate]
 Oueries 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]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registerreverselookup]
 Oueries value:
Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registerwanadapters]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[disablewandynamicupdate]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registrationtt1]
 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 \setminus system \setminus current control set \setminus services \setminus tcpip \setminus parameters [maxnumber of addresses to register]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[updatesecuritylevel]
 Queries value:
HKLM \setminus system \setminus current control set \setminus services \setminus dns cache \setminus parameters [update top level domain zones]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[downcasespncauseapiowneristoolazy]
HKLM\system\currentcontrolset\services\dnscache\parameters[registrationoverwrite]
                         HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachesize]
 Queries value:
                         HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachettl]
 Queries value:
 Queries value:
HKLM\svstem\currentcontrolset\services\dnscache\parameters[adaptertimeoutlimit]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[serverprioritytimelimit]
 Queries value:
HKLM \setminus system \setminus current control set \setminus services \setminus dns cache \setminus parameters [max cached sockets]
 Queries value:
HKLM\svstem\currentcontrolset\services\dnscache\parameters[enablemulticast]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[multicastresponderflags]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[multicastsenderflags]
 Queries value:
HKLM\svstem\currentcontrolset\services\dnscache\parameters[multicastsendermaxtimeout]
 Queries value:
                         HKLM\system\currentcontrolset\services\dnscache\parameters[dnstest]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[usecompartments]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[cacheallcompartments]
 Queries value:
\label{lem:hklm} \verb+KLM\+ system \setminus current control set \setminus services \setminus dnscache \setminus parameters [use new registration]
 Queries value:
HKLM\svstem\currentcontrolset\services\dnscache\parameters[resolverregistration]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[resolverregistrationonly]
 Queries value:
HKLM \setminus system \setminus current control set \setminus services \setminus dns cache \setminus parameters [dns query time outs]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[dnsquerytimeouts]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[dnsquickquerytimeouts]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[dnsquickquerytimeouts]
 Queries value:
                         HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_mime_handling[6f2064e626e4383a5d8a9c0bdb8e9ddf.exe]
 Queries value:
                         HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_mime_handling[*]
                         HKLM\system\currentcontrolset\services\winsock2\parameters[autodialdl1]
 Oueries value:
 Oueries value:
                         HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_unc_savedfilecheck[6f2064e626e4383a5d8a9c0bdb8e9ddf.exe]
                         HKLM\software\microsoft\internet
 Oueries value:
explorer\main\featurecontrol\feature_unc_savedfilecheck[*]
```

```
Queries value:
                                     HKLM\software\policies\microsoft\internet
explorer\security[disablesecuritysettingscheck]
  Oueries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings\zones\0[flags]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings\zones\1[flags]
  Queries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings\zones\2[flags]
  Queries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings\zones\3[flags]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings\zones\4[flags]
  Queries value:
                                     HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_localmachine_lockdown[6f2064e626e4383a5d8a9c0bdb8e9ddf.exe]
  Queries value:
                                     HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_localmachine_lockdown[*]
  Oueries value:
                                    HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_localmachine_lockdown[6f2064e626e4383a5d8a9c0bdb8e9ddf.exe]
  Queries value:
                                     HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_localmachine_lockdown[*]
  Queries value:
                                     HKLM\software\policies\microsoft\windows\currentversion\internet
settings[createuricachesize]
                                     HKCU\software\policies\microsoft\windows\currentversion\internet
  Oueries value:
settings[createuricachesize]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[createuricachesize]
                                     HKLM\software\microsoft\windows\currentversion\internet
  Queries value:
settings[createuricachesize]
                                     HKLM\software\policies\microsoft\windows\currentversion\internet
  Oueries value:
settings[enablepunycode]
                                     HKCU\software\policies\microsoft\windows\currentversion\internet
  Oueries value:
settings[enablepunycode]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[enablepunycode]
                                     HKCU\software\microsoft\internet explorer\ietld[ietlddllversionlow]
  Oueries value:
  Queries value:
                                     HKCU\software\microsoft\internet explorer\ietld[ietlddllversionhigh]
                                     HKLM\system\currentcontrolset\control\cmf\config[system]
  Oueries value:
  Oueries value:
                                     HKCU\software\microsoft\internet explorer\ietld[ietldversionlow]
                                     HKCU\software\microsoft\internet explorer\ietld[ietldversionhigh]
  Queries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings\zonemap[autodetect]
                                     \label{lem:hkcu} \verb+KKCU \software \microsoft \windows \current version \cite{thm:lem:hkcu} in terms to the lemma soft \cite{thm:lem:hkcu} and \cite{thm:lem:hkcu} are \cite{thm:lem:hkcu}.
  Queries value:
settings\zones\3[1a10]
  Queries value:
                                     HKLM\system\currentcontrolset\services\winsock\parameters[transports]
HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[mapping]
  Queries value:
                                     HKLM\system\currentcontrolset\services\tcpip\parameters[hostname]
  Queries value:
HKLM\system\currentcontrolset\services\psched\parameters\winsock[mapping]
  Queries value:
                                     HKLM\system\currentcontrolset\services\winsock\setup
migration\providers\psched[winsock 2.0 provider id]
                                     HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[mapping]
  Oueries value:
  Queries value:
                                     HKLM\system\currentcontrolset\services\winsock\setup
migration\providers\tcpip[winsock 2.0 provider id]
  Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[minsockaddrlength]
  Oueries value:
                                     HKLM\system\currentcontrolset\services\tcpip\parameters[domain]
  Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[maxsockaddrlength]
  Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[usedelayedacceptance]
  Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[helperdllname]
  Oueries value:
                                     HKLM\svstem\currentcontrolset\services\winsock\setup
migration\providers\tcpip6[winsock 2.0 provider id]
HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[minsockaddrlength]
  Queries value:
Oueries value:
HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[usedelayedacceptance]
HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[helperdllname]
  Queries value:
Oueries value:
HKLM \ system \ current control set \ services \ trpip6 \ parameters \ interfaces \ \{128919e8-8a5e-41d1-ac17-4164, ac17-4164, ac17
c19ce8a73253}[searchlist]
  Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{128919e8-8a5e-41d1-ac17-
c19ce8a73253}[enabledhcp]
  Oueries value:
```

c19ce8a73253}[registrationenabled]

Queries value:

 $HKLM \ system \ `current control set \ 'services \ 'tcpip \ parameters \ 'interfaces \ '\{128919e8-8a5e-41d1-ac17-c19ce8a73253\} \ [register adapter name]$ 

Oueries value:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{128919e8-8a5e-41d1-ac17-c19ce8a73253}[domain]

Oueries value:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{128919e8-8a5e-41d1-ac17-c19ce8a73253}[dhcpdomain]

Oueries value:

 $HKLM \ system \ current control set \ services \ tcpip6 \ parameters \ interfaces \ \{128919e8-8a5e-41d1-ac17-c19ce8a73253\} \ [dhcpv6domain]$ 

Oueries value:

 $HKLM \ system \ current control set \ services \ tcpip6 \ parameters \ interfaces \ \{128919e8-8a5e-41d1-ac17-c19ce8a73253\} \ [names erver]$ 

Queries value:

 $\label{lem:hklmsystem} HKLM \system \current control set \services \troip \parameters \interfaces \{128919e8-8a5e-41d1-ac17-c19ce8a73253\} \names erver]$ 

Queries value:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{128919e8-8a5e-41d1-ac17-c19ce8a73253}[dhcpnameserver]

Oueries value:

 $HKLM \ system \ current control set \ services \ tcpip \ parameters \ interfaces \ \{e29ac6c2-7037-11de-816d-806e6f6e6963\} \ [enabled \ hcp]$ 

Queries value:

 $HKLM \ system \ `current control set \ 'services \ 'tcpip \ parameters \ 'interfaces \ '\{e29ac6c2-7037-11de-816d-806e6f6e6963\} \ [registration enabled]$ 

Queries value:

 $HKLM \ system \ current control set \ services \ tcpip \ parameters \ interfaces \ \{e29ac6c2-7037-11de-816d-806e6f6e6963\} \ [register adapter name]$ 

Queries value:

Queries value:

 $HKLM \ system \ current control set \ services \ tcpip \ parameters \ interfaces \ \{e29ac6c2-7037-11de-816d-806e6f6e6963\} \ [dhcpdomain]$ 

Queries value:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{e29ac6c2-7037-11de-816d-806e6f6e6963}[nameserver]

Oueries value:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{e29ac6c2-7037-11de-816d-806e6f6e6963}{dhcpnameserver1

Queries value: HKLM\system\currentcontrolset\services\tcpip\linkage[bind]

Oueries value:

 $\label{lem:hklmsystem} HKLM \system \current control set \services \tcpip \parameters \interfaces \{128919e8-8a5e-41d1-ac17-c19ce8a73253\} [queryadaptername]$ 

Queries value:

 $\label{lem:hklm} HKLM \ system \ `current controlset \ 'services \ 'tcpip \ parameters \ '(128919e8-8a5e-41d1-ac17-c19ce8a73253) \ [disable adapter domain name]$ 

Queries value:

 $HKLM \ system \ `current control set \ 'services \ 'tcpip \ parameters \ 'interfaces \ '\{128919e8-8a5e-41d1-ac17-c19ce8a73253\} \ [registration max address count]$ 

Queries value:

 $\label{thm:local-equation} HKLM \system \current control set \services \troip \parameters \ interfaces \ \{128919e8-8a5e-41d1-ac17-c19ce8a73253\} \ [maxnumber of addresses to register]$ 

Queries value:

Queries value:

Queries value:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{e29ac6c2-7037-11de-816d-806e6f6e6963}[disableadapterdomainname]

Queries value:

Queries value:

 $\label{lem:hklm} HKLM \ system \ `current controlset \ services \ 'tcpip \ parameters \ 'interfaces \ '\{e29ac6c2-7037-11de-816d-806e6f6e6963\} \ [enable adapter domain name registration]$ 

Queries value:

 $HKLM \ system \ current control set \ services \ tcpip \ parameters \ interfaces \ \{e29ac6c2-7037-11de-816d-806e6f6e6963\} \ [registration max address count]$ 

Queries value:

 $HKLM \ system \ `current control set \ 'services \ 'tcpip \ parameters \ 'interfaces \ '\{e29ac6c2-7037-11de-816d-806e6f6e6963\} \ [maxnumber of addresses to register]$ 

Queries value:

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

Queries value: HKLM\software\microsoft\com3[com+enabled]

 $Queries\ value: \qquad \qquad HKCR\clsid\{dcb00c01-570f-4a9b-8d69-199fdba5723b}[]$ 

```
HKCR\clsid\{dcb00c01-570f-4a9b-8d69-
   Queries value:
199fdba5723b}\inprocserver32[inprocserver32]
                                                    HKCR\clsid\{dcb00c01-570f-4a9b-8d69-199fdba5723b}\ \ linprocserver 32[]
   Queries value:
                                                    HKCR\clsid\{dcb00c01-570f-4a9b-8d69-
   Queries value:
199fdba5723b}\inprocserver32[threadingmodel]
   Queries value:
                                                    HKLM\software\microsoft\ole[maxsxshashcount]
   Oueries value:
                                                     HKLM\software\microsoft\rpc\extensions[ndroleextdll]
                                                    HKCR\clsid\{a47979d2-c419-11d9-a5b4-001185ad2b89}[]
   Oueries value:
   Queries value:
                                                     HKLM\software\microsoft\ole\appcompat[raisedefaultauthnlevel]
   Queries value:
                                                     HKLM\software\microsoft\ole[defaultaccesspermission]
                                                     HKLM\system\currentcontrolset\control\lsa[everyoneincludesanonymous]
   Oueries value:
   Queries value:
                                                    HKLM\software\microsoft\cryptography\defaults\provider\microsoft strong
cryptographic provider[type]
   Oueries value:
                                                    HKLM \verb|\software\microsoft\cryptography\defaults\provider\microsoft\ strong
cryptographic provider[image path]
   Queries value:
                                                    HKLM\system\currentcontrolset\control\lsa\fipsalgorithmpolicy[enabled]
   Oueries value:
                                                    HKLM\system\currentcontrolset\control\lsa[fipsalgorithmpolicy]
   Queries value:
                                                    HKLM\software\policies\microsoft\cryptography[privkeycachemaxitems]
   Queries value:
HKLM\software\policies\microsoft\cryptography[privkeycachepurgeintervalseconds]
                                                    HKLM\software\policies\microsoft\cryptography[privatekeylifetimeseconds]
   Queries value:
   Queries value:
                                                     HKLM\software\microsoft\cryptography[machineguid]
                                                    Oueries value:
   Queries value:
                                                     HKLM\software\microsoft\rpc\extensions[remoterpcdll]
   Queries value:
                                                     HKLM\software\microsoft\ole[maximumallowedallocationsize]
                                                    HKCR \land [d0074ffd-570f-4a9b-8d69-199fdba5723b] \land [logitimetric formula for the context of the c
   Queries value:
                                                     HKCR\clsid\{1299cf18-c4f5-4b6a-bb0f-2299f0398e27}[]
   Queries value:
   Queries value:
                                                    HKCR\clsid\{1299cf18-c4f5-4b6a-bb0f-
2299f0398e27}\inprocserver32[inprocserver32]
                                                    HKCR\clsid\{1299cf18-c4f5-4b6a-bb0f-2299f0398e27}\inprocserver32[]
   Queries value:
                                                    HKCR\clsid\{1299cf18-c4f5-4b6a-bb0f-
   Oueries value:
2299f0398e27}\inprocserver32[threadingmodel]
                                                    HKCR \land effect \ \{26656eaa-54eb-4e6f-8f85-4f0ef901a406\} \land proxystubclsid32[]
   Queries value:
   Queries value:
                                                     HKCR\interface\{8a40a45d-055c-4b62-abd7-6d613e2ceaec}\proxystubclsid32[]
   Oueries value:
                                                    HKCR\interface\{55272a00-42cb-11ce-8135-00aa004bb851}\proxystubclsid32[]
                                                     HKCR\clsid\{b196b286-bab4-101a-b69c-00aa00341d07}[]
   Queries value:
                                                    HKCR\clsid\{b196b286-bab4-101a-b69c-
   Oueries value:
00aa00341d07}\inprocserver32[inprocserver32]
                                                    HKCR\clsid\{b196b286-bab4-101a-b69c-00aa00341d07}\inprocserver32[]
   Queries value:
                                                    HKCR\clsid\{b196b286-bab4-101a-b69c-
   Queries value:
00aa00341d07}\inprocserver32[threadingmodel]
                                                     HKCR \inf \{bcd1de7e-2db1-418b-b047-4a74e101f8c1\} \}
   Queries value:
                                                     HKCR\interface\{2a1c9eb2-df62-4154-b800-63278fcb8037}\proxystubclsid32[]
   Oueries value:
   Queries value:
                                                    HKCU\software\microsoft\windows\currentversion\internet
settings\wpad[wpadlastnetwork]
                                                    HKCU\software\microsoft\windows\currentversion\internet
   Queries value:
settings[autoproxydetecttype]
   Queries value:
                                                     HKLM\system\currentcontrolset\services\netbt\linkage[export]
                                                    HKCU\software\microsoft\windows\currentversion\internet
   Oueries value:
settings\zones\3[{aeba21fa-782a-4a90-978d-b72164c80120}]
                                                    HKCU\software\microsoft\windows\currentversion\internet
   Oueries value:
settings[privacyadvanced]
   Queries value:
                                                    HKCU\software\microsoft\windows\currentversion\explorer[maximizeapps]
   Queries value:
                                                     HKLM\software\microsoft\windows\currentversion\explorer[maximizeapps]
   Oueries value:
b131-e946b44c8dd5}[suppressionpolicy]
   Oueries value:
HKLM \label{lem:hklm} HKLM \label{lem:hklm} HKLM \label{lem:hklm} With the lem \label{lem:hklm} With the lem \label{lem:hklm} HKLM \label{lem:hklm} With the lem \label{lem:hkklm} HKLM \label{lem:hkklm} With the lem \label{lem:hkklm} HKLM \label{lem:hkklm} With the lem \label{lem:hkklm}
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HKCR\clsid\{daf95313-e44d-46af-be1b-

Queries value:

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  Queries value:
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                                      HKCR\clsid\{daf95313-e44d-46af-be1b-
  Queries value:
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  Queries value:
HKLM \ software \ microsoft \ windows \ current version \ policies \ nonenum \ [\{e345f35f-9397-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-435c-8f95-455c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-45c-8f95-8f95-45c-8f95-45c-8f95-4
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  Oueries value:
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```
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 Queries value:
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 Queries value:
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 Queries value:
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                         HKCR\clsid\{ed228fdf-9ea8-4870-83b1-
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 Queries value:
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                         HKCR\clsid\{ed228fdf-9ea8-4870-83b1-
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                         HKCR\clsid\{ed228fdf-9ea8-4870-83b1-
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 Queries value:
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7367fc96ef3c}\shellfolder[restrictedattributes]
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 Queries value:
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 Queries value:
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 Queries value:
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 Queries value:
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 Queries value:
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7367fc96ef3c}\shellfolder[hideinwebview]
                         HKCR\clsid\{f02c1a0d-be21-4350-88b0-
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                         HKCR\clsid\{f02c1a0d-be21-4350-88b0-
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 Queries value:
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alebe3392799}\shellfolder[wantsforparsing]
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 Queries value:
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 Queries value:
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a1ebe3392799}\shellfolder[queryforoverlay]
                        HKCR\clsid\{f3f5824c-ad58-4728-af59-
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 Oueries value:
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 Queries value:
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a1ebe3392799}\shellfolder[hideinwebview]
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 Queries value:
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                        HKCR\clsid\{f3f5824c-ad58-4728-af59-
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 Oueries value:
 Oueries value:
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                        HKLM\software\microsoft\windows\currentversion[devicepath]
 Queries value:
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 Queries value:
 Oueries value:
\label{thm:linear} \begin{tabular}{ll} HKCU \software \verb|\microsoft| windows \verb|\currentversion| explorer \verb|\advanced| showcompcolor| \\ \end{tabular}
 Oueries value:
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HKCU\software\microsoft\windows\currentversion\explorer\advanced[dontprettypath]
 Oueries value:
HKCU\software\microsoft\windows\currentversion\explorer\advanced[showinfotip]
 Oueries value:
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                        HKCU\software\microsoft\windows\currentversion\explorer\advanced[filter]
 Oueries value:
 Queries value:
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 Oueries value:
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 Oueries value:
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 Oueries value:
HKCU\software\microsoft\windows\currentversion\explorer\advanced[iconsonly]
HKCU\software\microsoft\windows\currentversion\explorer\advanced[showtypeoverlay]
 Oueries value:
                        HKCR\directory[docobject]
 Queries value:
                        HKCR\folder[docobject]
                        HKCR\allfilesystemobjects[docobject]
 Oueries value:
                        HKCR\directory[browseinplace]
 Queries value:
                        HKCR\folder[browseinplace]
 Oueries value:
 Oueries value:
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 Queries value:
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 Oueries value:
                        HKCR\allfilesvstemobjects[isshortcut]
 Queries value:
                        HKCR\directory[alwaysshowext]
 Oueries value:
                        HKCR\directory[nevershowext]
 Oueries value:
                        HKCR\folder[nevershowext]
 Oueries value:
                        HKCR\allfilesystemobjects[nevershowext]
 Queries value:
                        HKCR\.exe[]
                        HKCR\exefile[docobject]
 Oueries value:
 Queries value:
                        HKCR\systemfileassociations\.exe[docobject]
```

Queries value: HKCR\exefile[browseinplace]

Queries value: HKCR\systemfileassociations\.exe[browseinplace]

Queries value: HKCR\.exe[content type]
Queries value: HKCR\exefile[isshortcut]

Queries value: HKCR\systemfileassociations\.exe[isshortcut]

Queries value:

 $\label{thm:local-basis} $$HKCU\software\microsoft\windows\currentversion\explorer\mountpoints2\cpc\volume\{69d250e3-6c18-11e3-b3bc-806e6f6e6963\}[data]}$ 

Queries value:

 $\label{local-basis} HKCU software \microsoft \windows \current version \explorer \mountpoints 2 \cpc \volume \ \{69d250e3-6c18-11e3-b3bc-806e6f6e6963\} \cline{2.000} \cline{2.0000} \clin$ 

Queries value: HKCR\exefile[alwaysshowext]

Queries value: HKCR\systemfileassociations\.exe[alwaysshowext]

Queries value: HKCR\exefile[nevershowext]

Queries value: HKCR\systemfileassociations\.exe[nevershowext]

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ (b4bfcc3a-db2c-424c-b029-7fe99a87c641) \ [category]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \{b4bfcc3a-db2c-424c-b029-7fe99a87c641\} \ [name]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{b4bfcc3a-db2c-424c-b029-7fe99a87c641\} \ [parent folder]$ 

Queries value:

 $HKLM \ software \ icrosoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{b4bfcc3a-db2c-424c-b029-7fe99a87c641\} [description]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{b4bfcc3a-db2c-424c-b029-7fe99a87c641\} \ [relative path]$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \{b4bfcc3a-db2c-424c-b029-7fe99a87c641\} \ [parsing name]$ 

Queries value:

 $\label{lem:hklmsoftware} Hklm\software\microsoft\windows\currentversion\explorer\folderdescriptions\{b4bfcc3a-db2c-424c-b029-7fe99a87c641\}[infotip]}$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{b4bfcc3a-db2c-424c-b029-7fe99a87c641\} \ [localized name]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{b4bfcc3a-db2c-424c-b029-7fe99a87c641\}[icon]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{b4bfcc3a-db2c-424c-b029-7fe99a87c641\}[security]$ 

Queries value:

 $\label{lem:hkk} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{b4bfcc3a-db2c-424c-b029-7fe99a87c641\}[streamresource]}$ 

Oueries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{b4bfcc3a-db2c-424c-b029-7fe99a87c641\}[stream resource type]$ 

Oueries value:

 $\label{lem:hklmsoftware} Hklm\software\microsoft\windows\currentversion\explorer\folderdescriptions\{b4bfcc3a-db2c-424c-b029-7fe99a87c641\}[localredirectonly]}$ 

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{b4bfcc3a-db2c-424c-b029-7fe99a87c641}[roamable]

Queries value:

 $\label{lem:hklmsoftware} Hklm\software\microsoft\windows\currentversion\explorer\folderdescriptions\{b4bfcc3a-db2c-424c-b029-7fe99a87c641\}[precreate]}$ 

Queries value:

 $\label{lem:hklmsoftware} HKLM \software \microsoft \windows \current version \explorer \folder descriptions \folder \folder\folder \folder \folder \folder \folder \folder \folder \folder \$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{b4bfcc3a-db2c-424c-b029-7fe99a87c641\} \ [publishex panded path]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{b4bfcc3a-db2c-424c-b029-7fe99a87c641\}[attributes]$ 

Queries value:

 $\label{lem:hklmsoftwaremicrosoftwindows} Label{lem:hklmsoftwaremicrosoftwindows} Label{lem:hklmsoftwaremicrosoftwaremicrosoftwindows} Label{lem:hklmsoftwaremicrosoftwindows} Label{lem:hklmsoftwaremicrosof$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{b4bfcc3a-db2c-424c-b029-7fe99a87c641\}[initfolder handler]$ 

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

folders[desktop]

Queries value: HKCR\clsid\{1f486a52-3cb1-48fd-8f50-b8dc300d9f9d}[]

Queries value: HKCR\clsid\{1f486a52-3cb1-48fd-8f50-

b8dc300d9f9d}\inprocserver32[inprocserver32]

Queries value: HKCR\clsid\{1f486a52-3cb1-48fd-8f50-b8dc300d9f9d}\inprocserver32[]

Queries value: HKCR\clsid\{1f486a52-3cb1-48fd-8f50-

b8dc300d9f9d}\inprocserver32[threadingmodel]

Oueries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} \ [category]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'unidows \ 'current version \ 's plorer \ 'folder descriptions \ '\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} [name]$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} [parent folder]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} [description]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'explorer \ 'folder descriptions \ '{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae} [relative path]$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} [parsing name]$ 

Oueries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae}[infotip]

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\}[localized name]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} [icon]$ 

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae}[security]

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} [stream resource]$ 

Queries value:

 $\label{local-basis} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\}[streamresourcetype]}$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} \ [local redirector \ ]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} [roamable]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} [precreate]$ 

Queries value:

 $\label{lem:hklmsoftware} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\}[stream]}$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'unidows \ 'current version \ 's plorer \ 'folder descriptions \ '\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} [publish expanded path]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\}[attributes]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\} \ [folder type id]$ 

Queries value:

 $\label{local-prop} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\}[initfolderhandler]}$ 

Queries value:  $HKCU \setminus software \setminus irrosoft \setminus irrosoft$ 

Queries value: HKLM\software\microsoft\windows\currentversion\explorer\kindmap[.exe]

Oueries value: HKCR\exefile[nostaticdefaultverb]

Queries value: HKCR\exefile\shell[]

Queries value: HKCR\exefile\shell\open[neverdefault]

Queries value: HKCR\exefile\shell\open\command[delegateexecute]

Queries value: HKCR\.asp[] Queries value: HKCR\.bas[] Oueries value: HKCR\.bat[] Queries value: HKCR\.cer[] Oueries value: HKCR\.chm[] HKCR\.cmd[] Oueries value: HKCR\.com[] Queries value: Queries value: HKCR\.cpl[] Oueries value: HKCR\.crt[]

Queries value: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}[]

Queries value: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-

00c04fb6bfc4}\inprocserver32[inprocserver32]

Queries value: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}\inprocserver32[]

Queries value: HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-

00c04fb6bfc4}\inprocserver32[threadingmodel]

Queries value: HKLM\software\policies\microsoft\windows\currentversion\internet

```
settings[specialfolderscachesize]
                                        HKCU\software\policies\microsoft\windows\currentversion\internet
  Oueries value:
settings[specialfolderscachesize]
  Queries value:
                                        HKCU\software\microsoft\windows\currentversion\internet
settings[specialfolderscachesize]
  Queries value:
                                        HKLM\software\microsoft\windows\currentversion\internet
settings[specialfolderscachesize]
                                        HKLM\software\microsoft\internet
  Oueries value:
explorer\main\featurecontrol\feature_protocol_lockdown[6f2064e626e4383a5d8a9c0bdb8e9ddf.exe]
  Queries value:
                                        HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_protocol_lockdown[*]
  Queries value:
                                        \label{lem:hkcu} \verb+KKCU \software \microsoft \windows \current version \cite{thm:lem:hkcu} in terms to the lemma substitution \cite{thm:lem:hkcu} and \cite{thm:lem:hkcu} are \cite{thm:lem:hkcu}.
settings\zones\0[1806]
  Oueries value:
                                        HKLM\software\microsoft\windows\currentversion\internet
settings\zones\0[1806]
  Queries value:
                                        HKCR\exefile\shell\open\command[command]
  Oueries value:
                                        HKCR\exefile\shell\open\command[]
  Queries value:
                                        HKCR\exefile\shell\open[setworkingdirectoryfromtarget]
  Queries value:
                                        HKCR\exefile\shell\open[noworkingdirectory]
  Oueries value:
HKLM\software\policies\microsoft\windows\safer\codeidentifiers[authenticodeenabled]
  Queries value:
                                        HKLM\software\microsoft\windows nt\currentversion\image file execution
options[disablelocaloverride]
  Queries value:
                                        HKCU\software\microsoft\visual basic\6.0[allowunsafeobjectpassing]
  Queries value:
                                        HKLM\software\microsoft\windows\html help[.hlp]
                                        HKLM\software\microsoft\windows nt\currentversion\compatibility32[cmd]
  Oueries value:
  Queries value:
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  Queries value:
                                        HKLM\software\microsoft\command processor[enableextensions]
  Oueries value:
                                        HKLM\software\microsoft\command processor[delayedexpansion]
  Queries value:
                                        HKLM\software\microsoft\command processor[defaultcolor]
  Queries value:
                                        HKLM\software\microsoft\command processor[completionchar]
  Oueries value:
                                        HKLM\software\microsoft\command processor[pathcompletionchar]
  Queries value:
                                        HKLM\software\microsoft\command processor[autorun]
  Queries value:
                                        HKCU\software\microsoft\command processor[disableunccheck]
  Oueries value:
                                        HKCU\software\microsoft\command processor[enableextensions]
  Queries value:
                                        HKCU\software\microsoft\command processor[delayedexpansion]
  Queries value:
                                        HKCU\software\microsoft\command processor[defaultcolor]
                                        HKCU\software\microsoft\command processor[completionchar]
  Oueries value:
                                        HKCU\software\microsoft\command processor[pathcompletionchar]
  Queries value:
  Queries value:
                                        HKCU\software\microsoft\command processor[autorun]
  Queries value:
                                        \label{local-constraint} \mbox{HKCU\software\mbox{\sc urrentversion\explorer\shell}} \mbox{}
folders[cache]
                                        HKLM\software\microsoft\windows
  Oueries value:
nt\currentversion\appcompatflags\layers[c:\windows\system32\tasklist.exe]
                                        HKLM\software\microsoft\windows
  Oueries value:
nt\currentversion\compatibility32[tasklist]
  Queries value:
                                        HKLM\software\microsoft\wbem\cimom[logging]
  Queries value:
HKLM\system\currentcontrolset\services\lanmanworkstation\parameters[rpccachetimeout]
                                        HKCR \verb|\clsid| \{4590f811-1d3a-11d0-891f-00aa004b2e24\}[]
  Queries value:
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00aa004b2e24}\inprocserver32[inprocserver32]
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  Queries value:
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  Queries value:
                                        HKLM\software\microsoft\wbem\cimom[logging directory]
                                        HKLM\software\microsoft\wbem\cimom[log file max size]
  Oueries value:
  Queries value:
                                        HKCR\clsid\{8bc3f05e-d86b-11d0-a075-00c04fb68820}[]
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                                        HKLM\software\microsoft\sqmclient\windows\disabledprocesses[36a1bda3]
                                        HKCR \land f309ad18-d86a-11d0-a075-00c04fb68820 \rbrace \land proxystubclsid32[]
  Queries value:
  Queries value:
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  Oueries value:
00aa004b2e24}\inprocserver32[inprocserver32]
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  Oueries value:
  Queries value:
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00aa004b2e24}\inprocserver32[threadingmodel]
  Queries value:
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  Oueries value:
                                        HKLM\system\currentcontrolset\control\nls\customlocale[en]
  Queries value:
                                        HKCR\interface\{9556dc99-828c-11cf-a37e-00aa003240c7}\proxystubclsid32[]
  Queries value:
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  Queries value:
                                        HKCR\clsid\{d68af00a-29cb-43fa-8504-
  Oueries value:
ce99a996d9ea}\inprocserver32[inprocserver32]
                                        \label{local-condition} \parbox{$\overset{\cdot}{\mathsf{HKCR}}$ \clsid{$d68af00a-29cb-43fa-8504-ce99a996d9ea}\end{\parbox{$\cdot$}} \parbox{$\overset{\cdot}{\mathsf{HKCR}}$ \clsid{\parbox{$\cdot$}} \parbox{$\cdot$} \p
  Queries value:
  Queries value:
                                        HKCR\clsid\{d68af00a-29cb-43fa-8504-
ce99a996d9ea}\inprocserver32[threadingmodel]
                                        HKLM\software\microsoft\wbem\cimom[processid]
  Queries value:
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  Oueries value:
  Oueries value:
                                        HKLM\software\microsoft\wbem\cimom[contextlimit]
  Oueries value:
                                        HKLM\software\microsoft\wbem\cimom[objectlimit]
```

HKLM\software\microsoft\wbem\cimom[identifierlimit]

HKCR\clsid\{1b1cad8c-2dab-11d2-b604-00104b703efd}[]

HKCR\interface\{027947e1-d731-11ce-a357-00000000001}\proxystubclsid32[]

Queries value:

Queries value: Queries value: Queries value: HKCR\clsid\{1b1cad8c-2dab-11d2-b604-

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Queries value: HKCR\clsid\{1b1cad8c-2dab-11d2-b604-

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Queries value: HKCR\clsid\{eb87e1bd-3233-11d2-aec9-

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Queries value: HKCR\clsid\{eb87e1bd-3233-11d2-aec9-00c04fb68820}\inprocserver32[]

Queries value: HKCR\clsid\{eb87e1bd-3233-11d2-aec9-

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Sets/Creates value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[enablefiletracing]
Sets/Creates value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[enableconsoletracing]
Sets/Creates value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[filetracingmask]
 Sets/Creates value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[consoletracingmask]
Sets/Creates value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[maxfilesize]
 Sets/Creates value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasapi32[filedirectory]
 Sets/Creates value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasmancs[enablefiletracing]
Sets/Creates value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasmancs[enableconsoletracing]
Sets/Creates value:

 $HKLM \ software \ microsoft \ tracing \ 6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasmancs[file tracing mask] \\ Sets \ / Creates \ value:$ 

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasmancs[consoletracingmask]
Sets/Creates value:

HKLM\software\microsoft\tracing\6f2064e626e4383a5d8a9c0bdb8e9ddf\_rasmancs[maxfilesize] Sets/Creates value:

settings[proxyenable]

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

settings\connections[savedlegacysettings]

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

settings\zonemap[uncasintranet]

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

settings\zonemap[autodetect]