# Malware Analysis Appliance by Blue Coat Systems, Inc.

Task Details

Host: mag2, Sample ID: 3310, Task ID: 749

Task ID: 749 Risk Level: 10

Date Processed: 2016-05-18 10:33:25 (UTC)

Processing Time: 8.66 seconds Virtual Environment: IntelliVM

**Execution Arguments:** "c:\windows\temp\6b1383f452de6d7b6d9a656c24904858.exe"

Sample ID: Type: basic Owner: admin

6b1383f452de6d7b6d9a656c24904858 Label:

2016-05-18 10:30:49 (UTC) Date Added: PE32:win32:gui

File Type: File Size: 86016 bytes

6b1383f452de6d7b6d9a656c24904858 MD5:

6bfd319db22de02b3658e3618808b2e72ac4ddc8937ac2fd046a6b7e87b768a7 SHA256:

Description: None

### Pattern Matching Results

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

C:\windows\temp\6b1383f452de6d7b6d9a656c24904858.exe Creates process:

["C:\windows\temp\6b1383f452de6d7b6d9a656c24904858.exe"]

Creates process: C:\Windows\System32\cmd.exe ["C:\Windows\System32\cmd.exe" /c

tasklist&&del 6b1383f452de6d7b6d9a656c24904858.exe]

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

Terminates process: C:\Windows\Temp\6b1383f452de6d7b6d9a656c24904858.exe

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

#### Named Object Events

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

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!

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

Creates mutex: \Sessions\1\BaseNamedObjects\WininetStartupMutex \Sessions\1\BaseNamedObjects\WininetConnectionMutex Creates mutex:  $\verb|\Sessions|1| Base Named Objects | Wininet ProxyRegistry Mutex| \\$ Creates mutex:

\Sessions\1\BaseNamedObjects\RasPbFile Creates mutex:

\Sessions\1\BaseNamedObjects\ZonesCounterMutex Creates mutex:

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

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

\Sessions\1\BaseNamedObjects\!IETld!Mutex Creates mutex: \BaseNamedObjects\SvcctrlStartEvent\_A3752DX Creates event: \Sessions\1\BaseNamedObjects\DINPUTWINMM Creates event: \Security\LSA\_AUTHENTICATION\_INITIALIZED Creates event:

\BaseNamedObjects\BFE\_Notify\_Event\_{d9a417d0-d768-4840-8ff2-Creates event:

8c94afa81e44}

Creates event:  $\verb|\KernelObjects\MaximumCommitCondition||$ \BaseNamedObjects\ConsoleEvent-0x00000A68 Creates event: \BaseNamedObjects\TermSrvReadyEvent Creates event: \Sessions\1\BaseNamedObjects\C:?WINDOWS?TEMP? Creates semaphore:

6B1383F452DE6D7B6D9A656C24904858.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 C:\Users\Admin\AppData\Local\Microsoft\Windows\Caches Creates: C:\Windows\Prefetch\6B1383F452DE6D7B6D9A656C24904-B353A3C0.pf Opens:

Opens: C:\Windows\System32

Opens: C:\windows\temp\MSVBVM60.DLL

```
C:\Windows\System32\msvbvm60.dll
 Opens:
                         C:\Windows\System32\sechost.dll
 Opens:
 Opens:
                         C:\Windows\System32\imm32.dll
 Opens:
                         C:\Windows\Globalization\Sorting\SortDefault.nls
 Opens:
                         C:\Windows\System32\rpcss.dll
 Opens:
                         C:\windows\temp\CRYPTBASE.dll
 Opens:
                         C:\Windows\System32\cryptbase.dll
 Opens:
                         C:\Windows\System32\uxtheme.dll
                         C:\windows\temp\6b1383f452de6d7b6d9a656c24904858.exe.cfg
 Opens:
                         C:\windows\temp\SXS.DLL
 Opens:
 Opens:
                         C:\Windows\System32\sxs.dll
 Opens:
                         C:\Windows\System32\C_932.NLS
 Opens:
                         C:\Windows\System32\C_949.NLS
                         C:\Windows\System32\C_950.NLS
 Opens:
 Opens:
                         C:\Windows\System32\C_936.NLS
 Opens:
                         C:\windows\temp\WINMM.DLL
 Opens:
                         C:\Windows\System32\winmm.dll
 Opens:
                         C:\windows\temp\MMDevAPI.DLL
 Opens:
                         C:\Windows\System32\MMDevAPI.dll
 Opens:
                         C:\windows\temp\PROPSYS.dll
 Opens:
                         C:\Windows\System32\propsys.dll
 Opens:
                         C:\windows\temp\LZ32.DLL
                         C:\Windows\System32\lz32.dll
 Opens:
 Opens:
                         C:\Windows\Temp\6b1383f452de6d7b6d9a656c24904858.exe
 Opens:
                         C:\
 Opens:
                         C:\windows\temp\SspiCli.dll
 Opens:
                         C:\Windows\System32\sspicli.dll
 Opens:
                         C:\Windows\System32\wininet.dll
                         C:\windows\temp\6b1383f452de6d7b6d9a656c24904858.exe.Local\
 Opens:
 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
 Opens:
                         C:\Windows\WindowsShell.Manifest
 Opens:
                         C:\windows\temp\profapi.dll
                         C:\Windows\System32\profapi.dll
 Opens:
 Opens:
                         C:\Users\Admin
                         C:\Users\Admin\AppData\Local
 Opens:
 Opens:
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet Files
 Opens:
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet
Files\desktop.ini
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet
 Opens:
Files\Content.IE5
                         \verb|C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet| \\
 Opens:
Files\Content.IE5\desktop.ini
                         C:\Users\Admin\AppData\Roaming
 Opens:
                         C:\Users\Admin\AppData\Roaming\Microsoft\Windows\Cookies
 Opens:
 Opens:
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\History
                         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
 Opens:
                         C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet
Files\Content.IE5\index.dat
 Opens:
                         C:\Users\Admin\AppData\Roaming\Microsoft\Windows\Cookies\index.dat
 Opens:
C:\Users\Admin\AppData\Local\Microsoft\Windows\History\History.IE5\index.dat
 Opens:
                         C:\windows\temp\ntmarta.dll
 Opens:
                         C:\Windows\System32\ntmarta.dll
 Opens:
                         C:\windows\temp\dnsapi.DLL
 Opens:
                         C:\Windows\System32\dnsapi.dll
 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\Svstem32\ras
 Opens:
                         C:\Users\Admin\AppData\Roaming\Microsoft\Network\Connections\Pbk
 Opens:
                         C:\windows\temp\sensapi.dll
                         C:\Windows\System32\SensApi.dll
 Opens:
 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
                         C:\Windows\System32\en-US\urlmon.dll.mui
 Opens:
 Opens:
                         C:\Windows\System32\mswsock.dll
```

C:\Windows\System32\NapiNSP.dll Opens: C:\Windows\System32\pnrpnsp.dll Opens: C:\Windows\System32\WSHTCPIP.DLL Opens: Opens: C:\Windows\System32\wship6.dll Opens: C:\Windows\System32\winrnr.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 C:\Windows\System32\FWPUCLNT.DLL Opens: Opens: C:\Windows\System32\netprofm.dll Opens: C:\windows\temp\CRYPTSP.dll Opens: C:\Windows\System32\cryptsp.dll Opens: C:\Windows\System32\rsaenh.dll Opens: C:\windows\temp\RpcRtRemote.dll Opens: C:\Windows\System32\RpcRtRemote.dll Opens: C:\Windows\System32\npmproxy.dll Opens: C:\Windows\System32\shell32.dll C:\windows\temp\apphelp.dll Opens: 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 Opens: C:\Windows Opens: C:\Users\Admin\AppData\Local\Microsoft\Windows\Caches\cversions.1.db Opens: 4C77-AF34-C647E37CA0D9}.1.ver0x0000000000000006.db Opens: C:\Users\Admin\Desktop\desktop.ini Opens: C:\Windows\System32\en-US\propsys.dll.mui Opens: C:\Windows\System32\cmd.exe Opens: C:\Windows\System32\cmd.exe:Zone.Identifier Opens: C:\Windows\Prefetch\CMD.EXE-4A81B364.pf Opens: Opens: C:\Program Files Opens: C:\Program Files\Adobe Opens: C:\Program Files\Adobe\Reader 9.0 Opens: C:\Windows\WINHELP.INI Opens: C:\Windows\system32\.HLP Opens: C:\Windows\Help\.HLP 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 C:\Windows\Globalization Opens: Opens: C:\Windows\Globalization\Sorting Opens: C:\Windows\System32\en-US C:\Windows\System32\ntdll.dll Opens: Opens: C:\Windows\System32\kernel32.dll 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 C:\Program Files\Adobe\Reader 9.0\Reader\icucnv36.dll Opens: Opens: C:\Windows\System32\tasklist.exe Opens: C:\Windows\AppPatch\sysmain.sdb  $C: \verb|\windows\system32\ui\SwDRM.dll| \\$ Opens: Opens: C:\Windows\Prefetch\TASKLIST.EXE-C6CEE193.pf Opens: C:\Windows\System32\mpr.dll C:\Windows\System32\secur32.dll Opens:

Opens: C:\Windows\System32\framedynos.dll C:\Windows\System32\wtsapi32.dll Opens: Opens: C:\Windows\System32\netapi32.dll Opens: C:\Windows\System32\netutils.dll 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

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

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

 Opens:
 C:\Windows\System32\wbem\wbemcomn.dll

 Opens:
 C:\Windows\System32\wbemcomn.dll

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

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

C:\Windows\system32\6b1383f452de6d7b6d9a656c24904858.exe Opens: Reads from: C:\Windows\Temp\6b1383f452de6d7b6d9a656c24904858.exe

Reads from: C:\Windows\Svstem32\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.1noip.org

DNS query: wpad Sends data to: 8.8.8.8:53 0.0.0.0:5355 Sends data to: 224.0.0.252:5355 Sends data to: Receives data from: 8.8.8.8:53

## Windows Registry Events

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

Creates key: HKLM\software\microsoft\tracing

Creates key:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasapi32

Creates key:

 $HKLM \setminus software \setminus microsoft \setminus tracing \setminus 6b1383f452de6d7b6d9a656c24904858\_rasmancs$ 

 $\label{lem:hkcu} \verb+KKCU \software \verb+ microsoft \verb+ windows \verb+ current version \verb+ internet+ \\$ Creates key:

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\visual basic\6.0

Creates key: HKCU\software

Creates kev: HKCU\software\microsoft

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

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

settings[proxyserver]

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

settings[proxyoverride]

 $\label{lem:hkcu} \verb+KKCU \software \verb+ microsoft \verb+ windows \verb+ current version \verb+ internet+ \\$ Deletes value:

settings[autoconfigurl]

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

settings\zonemap[proxybypass]

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

settings\zonemap[proxybypass]

Deletes 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\zonemap[intranetname]

Deletes value:

HKLM\software\microsoft\windows\currentversion\internet

settings\zonemap[intranetname]

Opens key: HKLM\system\currentcontrolset\control\session manager Opens key: HKLM\svstem\currentcontrolset\control\terminal server Opens key:  ${\it HKLM \ } system \verb|\ current control \ safe boot \verb|\ option| \\$ Opens key: HKLM\system\currentcontrolset\control\srp\gp\dll

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

Opens key:

Opens kev: HKCU\control panel\desktop\muicached\machinelanguageconfiguration

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

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

Opens key: HKCU\control panel\desktop

Opens key: HKCU\control panel\desktop\muicached

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

Opens key:

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

Opens key: HKLM\software\microsoft\ole

```
HKLM\software\microsoft\ole\tracing
  Opens key:
  Opens key:
                                   HKLM\software\microsoft\oleaut
                                   {\it HKLM} \verb|\system| current controlset| control \verb|\nls| custom locale | \\
  Opens kev:
  Opens key:
                                   HKLM\system\currentcontrolset\control\nls\extendedlocale
  Opens kev:
                                   HKLM\system\currentcontrolset\control\nls\locale
  Opens key:
                                   HKLM \ system \ current controls et \ control \ nls \ locale \ alternate \ sorts
                                   HKLM\system\currentcontrolset\control\nls\language groups
  Opens key:
  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\software\microsoft\rpc
  Opens key:
                                   Opens key:
                                   HKLM\system\setup
                                   HKLM\software\policies\microsoft\windows nt\rpc
  Opens key:
  Opens key:
                                   HKLM\software\policies\microsoft\sqmclient\windows
  Opens key:
                                   HKLM\software\microsoft\sqmclient\windows
                                   HKLM\system\currentcontrolset\control\samservicelist
  Opens kev:
  Opens key:
                                   HKLM\software\microsoft\windows nt\currentversion\drivers32
  Opens key:
Opens key:
                                   HKCU\software\microsoft\windows\currentversion\multimedia\midimap
  Opens key:
                                   HKLM\software\microsoft\oleaut\userera
                                   HKCU\software\policies\microsoft\control
  Opens kev:
panel\international\calendars\twodigityearmax
  Opens key:
                                   HKCU\control panel\international\calendars\twodigityearmax
  Opens key:
                                   HKLM\system\currentcontrolset\services\disk\enum
  Opens key:
                                   HKLM\system\currentcontrolset\services\crypt32
  Opens key:
                                   HKLM\software\microsoft\windows\currentversion\internet settings
  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
                                   HKCU\software\microsoft\windows\currentversion\internet settings
  Opens key:
  Opens key:
                                   HKLM\software\policies
  Opens key:
                                   HKCU\software\policies
                                   HKCU\software
  Opens key:
  Opens key:
                                   HKLM\software
  Opens key:
                                   HKLM\software\policies\microsoft\internet explorer
  Opens key:
                                   HKLM\software\policies\microsoft\internet explorer\main
  Opens key:
                                   \label{lem:hklm} \verb+Kklm \+ software \+ policies \+ microsoft \+ internet explorer \+ main \+ feature control
  Opens key:
                                   HKCU\software\policies\microsoft\internet explorer\main\featurecontrol
  Opens key:
                                   HKCU\software\microsoft\internet explorer\main\featurecontrol
  Opens key:
                                   HKLM\software\microsoft\internet explorer\main\featurecontrol
  Opens key:
                                   HKLM\software\microsoft\windows\currentversion\internet
settings\5.0\cache
  Opens key:
                                   HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache
  Opens key:
                                   HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\content
                                   HKLM\software\microsoft\windows\currentversion\internet
  Opens kev:
settings\5.0\cache\content
  Opens key:
HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions
  Opens key:
ba85-6007caedcf9d}
  Opens kev:
ba85-6007caedcf9d}\propertybag
  Opens key:
                                   HKCU\software\microsoft\windows\currentversion\explorer
  Opens key:
                                   HKCU \ software \ `microsoft\ `windows \ `current version \ `explorer \ `session in fo' 1 \ in the context of the context of
  Opens key:
HKCU \ software \ microsoft \ windows \ current version \ explorer \ session in folders
  Opens key:
                                   HKCU\software\microsoft\windows\currentversion\explorer\user shell
folders
                                   HKLM\software\policies\microsoft\windows\explorer
  Opens key:
  Opens key:
                                   HKCU\software\policies\microsoft\windows\explorer
  Opens key:
9d55-7b8e7f157091}
  Opens kev:
9d55-7b8e7f157091}\propertybag
  Opens kev:
HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-
```

9afe-ea3317b67173} Opens key:

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

 $HKLM \setminus software \setminus microsoft \setminus windows \ nt \setminus current version \setminus profile list \setminus s-1-5-21-1000 + (1-5)$ Opens kev:

2160590473-689474908-1361669368-1002

Opens key: HKLM\software\microsoft\windows\currentversion\explorer\knownfoldersettings HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\5.0\cache\cookies HKLM\software\microsoft\windows\currentversion\internet Opens kev: settings\5.0\cache\cookies Opens key: 908e-08a611b84ff6} Opens key:  $HKLM \ software \ `microsoft \ `windows \ `current version \ `explorer \ `folder descriptions \ `\{2b0f765d-c0e9-4171-descriptions \ `explorer \ `folder descriptions \ `explorer \ `folder \ `explorer \ `explorer \ `folder \ `explorer \ `folder \ `explorer \ `folder \ `explorer \ `folder \ `explorer \ `explorer \ `folder \ `explorer \ `ex$ 908e-08a611b84ff6}\propertybag HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6a03a-e3ef65729f3d} Opens key:  $HKLM \setminus software \setminus irrosoft \setminus ir$ a03a-e3ef65729f3d}\propertybag  $\label{lem:hkcu} \verb+KKCU\+ software\+ microsoft\+ windows\+ current version\+ internet$ Opens key: settings\5.0\cache\history  $\label{lem:hklm} \verb+Kklm \+ software + microsoft + windows + current version + internet$ Opens key: settings\5.0\cache\history Opens kev: a781-5a1130a75963} Opens key:  $HKLM \ software \ `microsoft \ `windows \ `current version \ `explorer \ 'folder descriptions \ '\{d9dc8a3b-b784-432e-d742e-d$ a781-5a1130a75963}\propertybag HKCU\software\microsoft\windows\currentversion\internet Opens kev: settings\5.0\cache\extensible cache HKCU\software\microsoft\windows\currentversion\internet Opens kev: settings\5.0\cache\extensible cache\domstore HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\5.0\cache\extensible cache\feedplat  $\label{lem:hkcu} \verb+KKCU\+ software\+ microsoft\+ windows\+ current version\+ internet$ Opens key: settings\5.0\cache\extensible cache\iecompat HKCU\software\microsoft\windows\currentversion\internet Opens kev: settings\5.0\cache\extensible cache\ietld HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\5.0\cache\extensible cache\privacie: Opens key: HKCU\software\microsoft\internet  $\verb|explorer\main\featurecontrol\retry_header on ly post\_on connection reset|\\$ Opens kev: HKLM\software\microsoft\internet  $\verb|explorer\main\featurecontrol\retry_header on ly post\_on connection reset|\\$ HKCU\software\microsoft\internet Opens key: explorer\main\featurecontrol\feature\_bufferbreaking\_818408 Opens key: HKLM\software\microsoft\internet explorer\main\featurecontrol\feature\_bufferbreaking\_818408 Opens kev: HKCU\software\microsoft\internet explorer\main\featurecontrol\feature\_skip\_post\_retry\_on\_internetwritefile\_kb895954 Opens key: HKLM\software\microsoft\internet explorer\main\featurecontrol\feature\_skip\_post\_retry\_on\_internetwritefile\_kb895954 Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet settings\5.0\cache HKCU\software\policies\microsoft\windows\currentversion\internet Opens kev: 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 key: explorer\main\featurecontrol\feature\_use\_cname\_for\_spn\_kb911149 Opens key: HKCU\software\microsoft\internet 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 key: HKLM\software\microsoft\internet explorer\main\featurecontrol\feature\_compat\_use\_connection\_based\_negotiate\_auth\_kb2151543 HKCU\software\microsoft\internet Opens key: explorer\main\featurecontrol\feature\_allow\_long\_international\_filenames Opens key: HKLM\software\microsoft\internet explorer\main\featurecontrol\feature\_allow\_long\_international\_filenames Opens key: HKCU\software\microsoft\internet 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\main\featurecontrol\feature\_disable\_unicode\_handle\_closing\_callback

HKLM\software\microsoft\internet

Opens key:

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\verb|explorer\main\featurecontrol\feature\_use\_ietldlist\_for\_domain\_determination| \\
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Opens key:
                                                          HKLM\system\currentcontrolset\control\cmf\config
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    Opens key:
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    Opens key:
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cryptographic provider
                                                          HKLM\system\currentcontrolset\services\netbt\linkage
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   Opens key:
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   Opens kev:
                                             HKCR\interface\{00000134-0000-0000-c000-00000000046}\proxystubclsid32
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b8dc300d9f9d}\progid

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b8dc300d9f9d}\inprochandler

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Opens key: HKCU\software\microsoft\internet

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

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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

 $\begin{tabular}{lll} Opens~key: & HKLM\software\microsoft\windows\html ~help \\ Opens~key: & HKLM\software\microsoft\windows\help \\ \end{tabular}$ 

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:  ${\tt HKCU \backslash software \backslash classes \backslash appid \backslash tasklist.exe}$ 

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

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

00aa004b2e24}\progid

00aa004b2e24}\inprocserver32

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

00aa004b2e24}\inprochandler32

 $Opens~key: \\ HKCR\clsid\{4590f811-1d3a-11d0-891f-00aa004b2e24}\ \ inprochandler 32 \\$ 

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

00aa004b2e24}\inprochandler

Opens key: HKCR\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

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: HKCR\clsid\{8bc3f05e-d86b-11d0-a075-00c04fb68820}\inprochandler32

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

00c04fb68820}\inprochandler

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

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

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

00c04fb68820}\proxystubclsid32

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

00aa004b2e24}\treatas

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-

00aa004b2e24}\inprochandler

Opens key: HKCR\clsid\\7c857801-7381-11cf-884d-00aa004b2e24\\inprochandler
Opens key: HKCU\software\classes\interface\\\ (44781cd6-e5d3-44df-ad94-930efe48a887\)

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: HKCR\interface\{9556dc99-828c-11cf-a37e-00aa003240c7}\proxystubclsid32 Opens key: HKCU\software\classes\clsid\{d68af00a-29cb-43fa-8504-ce99a996d9ea}

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}\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:  $\label{eq:hkcR} \mbox{HKCR\clsid} $$ \mbox{d68af00a-29cb-43fa-8504-ce99a996d9ea} \in \mbox{linprochandler32} $$$ 

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

ce99a996d9ea}\inprochandler

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

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

 ${\tt 000000000001} \verb|\proxystubclsid32| \\$ 

Opens key:  $\label{eq:hccn} \begin{tabular}{ll} HKCR\interface\{0.027947e1-d731-11ce-a357-00000000001\}\proxystubclsid32\\ Opens key: \\ HKCU\software\classes\clsid\{1b1cad8c-2dab-11d2-b604-00104b703efd} \end{tabular}$ 

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

 Opens key:
 HKCU\software\classes\clsid\{1b1cad8c-2dab-11d2-b604-004-004b703efd}

00104b703efd}\treatas

00104b703efd}\progid

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

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

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

00104b703efd}\inprochandler

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

00104b703efd}\proxystubclsid32

 $HKCR\ interface \ \{1c1c45ee-4395-11d2-b60b-00104b703efd\}\ proxystubclsid 32$ Opens key: Opens kev: HKCU\software\classes\interface\{423ec01e-2e35-11d2-b604-00104b703efd}

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

00104b703efd}\proxystubclsid32

 $HKCR \land (423ec01e-2e35-11d2-b604-00104b703efd) \land (23ec01e-2e35-11d2-b604-00104b703efd) \land (23ec01e-2e35-11d2-b604-00104b703effd) \land (23ec01e-2e35-11d2-b604-0$ Opens key: HKCU\software\classes\clsid\{eb87e1bd-3233-11d2-aec9-00c04fb68820} Opens key:

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

00c04fb68820}\treatas

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

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

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

00c04fb68820}\inprochandler32

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

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

00c04fb68820}\inprochandler

HKCR\clsid\{eb87e1bd-3233-11d2-aec9-00c04fb68820}\inprochandler 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]

Queries value:

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

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

Queries value: HKCU\control panel\desktop\muicached[machinepreferreduilanguages]

Queries value:

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

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

options\dllnxoptions[usefilter]

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

options\dllnxoptions[msvbvm60.dll]

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

nt\currentversion\compatibility32[6b1383f452de6d7b6d9a656c24904858]

Oueries value: HKLM\software\microsoft\windows

nt\currentversion\windows[loadappinit\_dlls]

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

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

manager[safeprocesssearchmode]

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

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

Queries value:

Queries value:

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

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

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

HKLM\system\currentcontrolset\control\sqmservicelist[sqmservicelist] Oueries value: Queries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[wave] Queries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[wave1] Oueries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[wave2] Queries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[wave3] Queries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[wave4] Oueries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[wave5] Queries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[wave6] Queries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[wave7] Queries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[wave8] HKLM\software\microsoft\windows nt\currentversion\drivers32[wave9] Oueries value: Oueries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[midil Oueries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[midi1] Queries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[midi2] Oueries value: HKLM\software\microsoft\windows nt\currentversion\drivers32[midi3]

HKLM\software\microsoft\windows nt\currentversion\drivers32[midi4]

```
Oueries value:
                                    HKLM\software\microsoft\windows nt\currentversion\drivers32[midi5]
                                    HKLM\software\microsoft\windows nt\currentversion\drivers32[midi61
  Oueries value:
  Oueries value:
                                    HKLM\software\microsoft\windows nt\currentversion\drivers32[midi7]
  Queries value:
                                    HKLM\software\microsoft\windows nt\currentversion\drivers32[midi8]
                                    HKLM\software\microsoft\windows nt\currentversion\drivers32[midi9]
  Oueries value:
  Queries value:
HKCU\system\currentcontrolset\control\mediaproperties\privateproperties\joystick\winmm[wheel]
  Oueries value:
                                   HKLM\system\currentcontrolset\services\disk\enum[0]
  Queries value:
                                    HKLM\system\currentcontrolset\services\crypt32[debugheapflags]
  Queries value:
                                    HKLM\software\microsoft\windows\currentversion\internet
settings[disableimprovedzonecheck]
  Queries value:
                                   HKLM\software\policies\microsoft\windows\currentversion\internet
settings[security_hklm_only]
  Queries value:
                                   HKLM\system\currentcontrolset\control\wmi\security[0cfe0455-93ba-440d-
a3fe-553973d0b723]
  Queries value:
                                    HKLM\system\currentcontrolset\control\wmi\security[797fabac-7b58-4796-
b924-d51178a59ce41
  Queries value:
                                    HKCU\software\microsoft\windows\currentversion\internet
settings[fromcachetimeout]
                                   HKLM\software\policies\microsoft\windows\currentversion\internet
  Queries value:
settings[secureprotocols]
                                    HKCU\software\policies\microsoft\windows\currentversion\internet
  Queries value:
settings[secureprotocols]
                                    HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[secureprotocols]
                                   \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}.
  Queries value:
settings[certificaterevocation]
                                   HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[disablekeepalive]
                                    HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[disablepassport]
                                    HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[idnenabled]
                                    HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[cachemode]
                                    \label{lem:hklm} \verb+Kklm\+ software\+ policies\+ microsoft\+ windows\+ current version\+ internet
  Queries value:
settings[enablehttp1_1]
  Queries value:
                                    HKCU\software\policies\microsoft\windows\currentversion\internet
settings[enablehttp1_1]
                                    HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[enablehttp1_1]
                                    \label{thm:local_hammon_hammon} \begin{tabular}{ll} HKLM \end{tabular} software \end{tabular} explicitly independent of the local property of the local 
  Queries value:
settings[proxyhttp1.1]
  Queries value:
                                    HKCU\software\policies\microsoft\windows\currentversion\internet
settings[proxyhttp1.1]
                                    HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[proxyhttp1.1]
  Queries value:
                                    HKCU\software\microsoft\windows\currentversion\internet
settings[enablenegotiate]
  Queries value:
                                   HKCU\software\microsoft\windows\currentversion\internet
settings[disablebasicoverclearchannel]
                                   HKCU\software\microsoft\internet
  Oueries value:
explorer\main\featurecontrol[feature_clientauthcertfilter]
  Queries value:
                                   HKLM\software\microsoft\internet
explorer\main\featurecontrol[feature clientauthcertfilter]
  Queries value:
                                   HKCU\software\microsoft\windows\currentversion\internet
settings[clientauthbuiltinui]
                                   HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[syncmode5]
                                    HKLM\software\microsoft\windows\currentversion\internet
  Queries value:
settings\5.0\cache[sessionstarttimedefaultdeltasecs]
  Queries value:
                                   HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache[signature]
                                   HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings\5.0\cache\content[peruseritem]
                                   HKLM\software\microsoft\windows\currentversion\internet
  Oueries value:
settings\5.0\cache\content[peruseritem]
  Queries value:
ba85-6007caedcf9d}[category]
  Queries value:
ba85-6007caedcf9d}[name]
  Queries value:
ba85-6007caedcf9d}[parentfolder]
  Queries value:
ba85-6007caedcf9d}[description]
  Oueries value:
ba85-6007caedcf9d}[relativepath]
```

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

Oueries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '{352481e8-33be-4251-ba85-6007} caed \ cf9d \ [infotip]$ 

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{352481e8-33be-4251-ba85-6007caedcf9d}[localizedname]

Oueries value:

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

Queries value:

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

Queries value:

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

Queries value:

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

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:

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

Queries value:

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

Oueries value

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

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{352481e8-33be-4251-ba85-6007caedcf9d}[publishexpandedpath]

Oueries value:

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

Oueries value

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

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:

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

Queries value:

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

Queries value:

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

Queries value:

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

Queries value:

 $\label{lem:hkk} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{f1b32785-6fba-4fcf-9d55-7b8e7f157091\}\[relative\path]\]$ 

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{f1b32785-6fba-4fcf-9d55-7b8e/f157091\foarsingnamel

Queries value:

 $\label{lem:hklm} HKLM \software \microsoft \windows \current version \explorer \folder descriptions \fill 157091 \fill 1$ 

Queries value:

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

Queries value:

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{f1b32785-6fba-4fcf-9d55-7b8e7f157091}[security]

Queries value:

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

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{f1b32785-6fba-4fcf-9d55-7b8e7f157091}[streamresourcetype]

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

Oueries value:

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

Queries value:

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

Oueries value:

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

Queries value:

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

Oueries value:

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

Queries value:

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

Oueries value

 $\label{thm:constraint} HKLM \software \microsoft \windows \current version \explorer \folder descriptions \fine 157091 \end{figures for the constraint of the constraint of$ 

Queries value:

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

folders[local appdata]

Queries value:

 $HKLM \ software \ `microsoft \ 'encountersion' \ explorer \ 'folder descriptions' \ \{5e6c858f-0e22-4760-9afe-ea3317b67173\} \ [category]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{5e6c858f-0e22-4760-9afe-ea3317b67173\} \ 'lname1$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'enclose \ The constraint \ The constraint \ HKLM \ software \ 'enclose \ The constraint \ T$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{5e6c858f-0e22-4760-9afe-ea3317b67173\} \ folder \ fold$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'endows \ 'en$ 

Oueries value:

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

Queries value:

 $\label{lem:hklmsoftware} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173\}[infotip]}$ 

Queries value:

HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173}flocalizedname1

Queries value:

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

Queries value:

 $\label{lem:hklmsoftware} HKLM \software \mbox{$5e6c858f-0e22-4760-9afe-ea3317b67173} [security]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'windows \ 'current version \ 'explorer \ 'folder descriptions \ '\{5e6c858f-0e22-4760-9afe-ea3317b67173\} \ [stream resource]$ 

Queries value:

 $\label{local-prop} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173\}[streamresourcetype]}$ 

Queries value:

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

Queries value:

 $\label{thm:microsoft} $$HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173\}[roamable]$$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'encountersion' \ explorer \ 'folder descriptions' \ \{5e6c858f-0e22-4760-9afe-ea3317b67173\} \ [precreate]$ 

Queries value:

Queries value:

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

Queries value:

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

Queries value:

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

 $\label{thm:local-objective} HKLM \software \microsoft \windows \current version \explorer \folder descriptions \folder \fold$ 

Queries value: HKLM\software\microsoft\windows nt\currentversion\profilelist\s-1-5-21-

2160590473-689474908-1361669368-1002[profileimagepath]

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

settings\5.0\cache\content[cacheprefix]

 $\label{thm:consoftware} Queries \ value: \\ HKCU \ software \ microsoft \ windows \ current version \ internet$ 

settings\5.0\cache\content[cachelimit]

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

settings\5.0\cache\cookies[peruseritem]

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

settings\5.0\cache\cookies[peruseritem]

Queries value:

 $\label{lem:hklmsoftware} Hklm\software\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6\}[category]}$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'current version \ 'explorer \ 'folder descriptions \ '\{2b0f765d-c0e9-4171-908e-08a611b84ff6\} [name]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'current version \ 'explorer \ 'folder descriptions \ '\{2b0f765d-c0e9-4171-908e-08a611b84ff6\}[parent folder]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'current version \ 'explorer \ 'folder descriptions \ '\{2b0f765d-c0e9-4171-908e-08a611b84ff6\} [description]$ 

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\} \ [relative path]$ 

Queries value:

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

Oueries value:

 $HKLM \ software \ `microsoft \ `windows \ `current version \ `explorer \ folder descriptions \ `\{2b0f765d-c0e9-4171-908e-08a611b84ff6\}[infotip]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'current version \ 'explorer \ 'folder descriptions \ '\{2b0f765d-c0e9-4171-908e-08a611b84ff6\}[localized name]$ 

Queries value:

 $HKLM \ software \ `microsoft \ 'current version \ 'explorer \ 'folder descriptions \ '\{2b0f765d-c0e9-4171-908e-08a611b84ff6\}[icon]$ 

Queries value:

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

Queries value:

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Queries value:

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

Queries value:

 $HKLM \ software \ `microsoft \ 'current version \ 'explorer \ 'folder descriptions \ '\{2b0f765d-c0e9-4171-908e-08a611b84ff6\} [local redirect only]$ 

Queries value:

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

Queries value:

 $\label{lem:hklmsoftware} HKLM \software \microsoft \windows \current version \explorer \folder descriptions \eqref{2b0f765d-c0e9-4171-908e-08a611b84ff6} [precreate]$ 

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\} [stream]$ 

Queries value:

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

Oueries value:

 $HKLM \ software \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\} \ [attributes]$ 

Queries value:

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

Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\} \ [initfolder \ handler]$ 

Queries value:

 $\label{thm:local_hammon_hammon} \begin{tabular}{ll} HKCU \software \mbox{$\mathbb{N}$ indows \current version \explorer \shell} \\$ 

folders[cookies]

Queries value:

 $\label{lem:hklmsoftware} Hklm\software\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\}\category\cite{Acf6-a03a-e3ef65729f3d}\cite{Acf6-a$ 

Queries value:

 $\label{thm:local-prop} HKLM \software \microsoft \windows \current version \explorer \folder descriptions \calebox{3eb685db-65f9-4cf6-a03a-e3ef65729f3d} \calebox{1.5cm} \ca$ 

Queries value:

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

Oueries value:

 $\label{lem:hklmsoftware} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\folder$ 

Queries value:

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

Oueries value:

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

Oueries value:

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Queries value:

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Queries value:

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

Queries value:

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

Queries value:

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

Queries value:

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

Queries value:

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

Oueries value:

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

Queries value:

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

Oueries value:

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

Queries value:

 $\label{lem:hklmsoftwaremicrosoftwindows} current version \end{abbeds} \begin{tabular}{ll} Hklm \end{tabular} \begin{tabular}{ll} Hklm$ 

Queries value:

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

Queries value:

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

Queries value:

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

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

folders[appdata]

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

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 $\label{lem:condition} Queries \ value: \\ HKCU \ software \ microsoft \ windows \ current version \ internet$ 

settings\5.0\cache\cookies[cachelimit]

 $\label{thm:cosoftware} Queries \ value: \\ HKCU \ software \ microsoft \ windows \ current version \ internet$ 

settings\5.0\cache\history[peruseritem]

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

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Queries value:

 $HKLM \ software \ microsoft \ windows \ current version \ (d9dc8a3b-b784-432e-a781-5a1130a75963) \ [parent folder]$ 

Queries value:

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

Queries value:

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

Queries value:

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

Queries value:

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

a781-5a1130a75963}[localizedname] Oueries value: HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{d9dc8a3b-b784-432ea781-5a1130a75963}[icon] Queries value: HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{d9dc8a3b-b784-432ea781-5a1130a75963}[security] Queries value: HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{d9dc8a3b-b784-432ea781-5a1130a75963}[streamresource] Queries value: a781-5a1130a75963 [streamresourcetype] Queries value: a781-5a1130a75963}[localredirectonly] a781-5a1130a75963}[roamable] Queries value: a781-5a1130a75963}[precreate]  $HKLM \ software \ `microsoft \ 'windows \ 'current version' \ explorer \ 'folder descriptions \ '\{d9dc8a3b-b784-432e-d74b, d9dc8a3b-b784-432e-d74b, d9dc8a4b, d9dc8a4b, d9dc8a4b, d9dc8a4b, d9dc8a4b, d9dc8a4b, d9dc8a4b, d9dc8a4b, d9dc8a4b, d9dc8a$ a781-5a1130a75963}[stream] Queries value: a781-5a1130a75963}[publishexpandedpath]  $HKLM \setminus software \setminus microsoft \setminus windows \setminus current version \setminus explorer \setminus folder descriptions \setminus \{d9dc8a3b-b784-432e-d9dc8a4b-b784-432e-d9dc8a4b-b784-432e-d9dc8a400-d9dc8a4b-b784-430e-d9dc8a4b-b784-430e-d9dc8a4b-b784-430e-d9dc$ a781-5a1130a75963}[attributes] a781-5a1130a75963}[foldertypeid]  $HKLM \setminus software \setminus microsoft \setminus windows \setminus current version \setminus explorer \setminus folder descriptions \setminus \{d9dc8a3b-b784-432e-d9dc8a4b-b784-432e-d9dc8a4b-b784-432e-d9dc8a400-d9dc8a4b-b784-430e-d9dc8a4b-b784-430e-d9dc8a4b-b784-430e-d9dc$ a781-5a1130a75963}[initfolderhandler] HKCU\software\microsoft\windows\currentversion\explorer\user shell Queries value: folders[history] Queries value:  $\label{lem:hkcu} \mbox{\tt HKCU\software\mbox{\tt microsoft\windows\currentversion\linear}} \mbox{\tt internet}$ settings\5.0\cache\history[cacheprefix] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings\5.0\cache\history[cachelimit] Oueries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\domstore[cacherepair] Queries value:  $\label{lem:hkcu} \verb+KKCU \software \verb+ microsoft \verb+ windows \verb+ current version \verb+ internet+ \\$ settings\5.0\cache\extensible cache\domstore[cachepath] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings\5.0\cache\extensible cache\domstore[cacheprefix] Oueries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\domstore[cachelimit] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings\5.0\cache\extensible cache\domstore[cacheoptions] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings\5.0\cache\extensible cache\feedplat[cacherepair] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\feedplat[cachepath] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings\5.0\cache\extensible cache\feedplat[cacheprefix] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings\5.0\cache\extensible cache\feedplat[cachelimit] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\feedplat[cacheoptions] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\iecompat[cacherepair] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings\5.0\cache\extensible cache\iecompat[cachepath] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\iecompat[cacheprefix] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\iecompat[cachelimit] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings\5.0\cache\extensible cache\iecompat[cacheoptions] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\ietld[cacherepair]

Queries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\ietld[cachepath]
Queries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\ietld[cacheprefix]
Queries value: HKCU\software\microsoft\windows\currentversion\internet settings\5.0\cache\extensible cache\ietld[cachelimit]
Queries value: HKCU\software\microsoft\windows\currentversion\internet

```
settings\5.0\cache\extensible cache\ietld[cacheoptions]
                                                 HKCU\software\microsoft\windows\currentversion\internet
   Oueries value:
settings\5.0\cache\extensible cache\privacie:[cacherepair]
   Queries value:
                                                 HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\privacie:[cachepath]
                                                 \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}.
   Queries value:
settings\5.0\cache\extensible cache\privacie:[cacheprefix]
                                                HKCU\software\microsoft\windows\currentversion\internet
   Oueries value:
settings\5.0\cache\extensible cache\privacie:[cachelimit]
   Queries value:
                                                 HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache\extensible cache\privacie:[cacheoptions]
                                                 HKCU\software\policies\microsoft\windows\currentversion\internet
   Queries value:
settings[enableautoproxyresultcache]
                                                 \label{lem:hkcu} \verb+KKCU \software \policies \microsoft \windows \current version \normalisation \normalisatio
   Oueries value:
settings[displayscriptdownloadfailureui]
                                                 HKCU\software\policies\microsoft\windows\currentversion\internet
   Queries value:
settings[mbcsservername]
   Queries value:
                                                 HKCU\software\policies\microsoft\windows\currentversion\internet
settings[mbcsapiforcrack]
                                                 \label{thm:local_hammon_hammon} \begin{tabular}{ll} HKCU \software \policies \microsoft \windows \current version \normalised in the local property of t
   Queries value:
settings[utf8servernameres]
                                                 HKCU\software\microsoft\windows\currentversion\internet
   Queries value:
settings[disableworkerthreadhibernation]
                                                 HKLM\software\microsoft\windows\currentversion\internet
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settings[disableworkerthreadhibernation]
   Queries value:
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settings[disablereadrange]
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   Queries value:
settings[socketreceivebufferlength]
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settings[keepalivetimeout]
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   Queries value:
settings[maxhttpredirects]
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   Queries value:
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   Queries value:
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   Queries value:
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settings[maxconnectionsper1 Oserver]
   Queries value:
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settings[maxconnectionsperproxy]
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   Queries value:
settings[serverinfotimeout]
   Queries value:
                                                 HKCU\software\microsoft\windows\currentversion\internet
settings[connecttimeout]
   Queries value:
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settings[connecttimeout]
                                                 HKCU\software\microsoft\windows\currentversion\internet
   Oueries value:
settings[connectretries]
   Queries value:
                                                 HKLM\software\microsoft\windows\currentversion\internet
settings[connectretries]
   Queries value:
                                                 HKCU\software\microsoft\windows\currentversion\internet
settings[sendtimeout]
   Oueries value:
                                                 HKLM\software\microsoft\windows\currentversion\internet
settings[sendtimeout]
                                                 HKCU\software\microsoft\windows\currentversion\internet
   Queries value:
settings[receivetimeout]
   Queries value:
                                                 HKLM\software\microsoft\windows\currentversion\internet
settings[receivetimeout]
                                                 HKCU\software\microsoft\windows\currentversion\internet
   Oueries value:
settings[disablentlmpreauth]
                                                 HKCU\software\microsoft\windows\currentversion\internet
   Oueries value:
settings[scavengecachelowerbound]
   Queries value:
                                                 HKCU\software\microsoft\windows\currentversion\internet
settings[certcachenovalidate]
                                                 HKCU\software\microsoft\windows\currentversion\internet
   Oueries value:
settings\5.0\cache[scavengecachefilelifetime]
   Oueries value:
                                                 HKCU\software\policies\microsoft\windows\currentversion\internet
settings\5.0\cache[scavengecachefilelimit]
   Queries value:
                                                 HKCU\software\microsoft\windows\currentversion\internet
settings\5.0\cache[scavengecachefilelimit]
                                                 HKLM\software\microsoft\windows\currentversion\internet
   Oueries value:
settings\5.0\cache[scavengecachefilelimit]
   Oueries value:
                                                 HKCU\software\microsoft\windows\currentversion\internet
settings[httpdefaultexpirytimesecs]
   Queries value:
                                                 HKCU\software\microsoft\windows\currentversion\internet
settings[ftpdefaultexpirytimesecs]
                                                 HKLM\software\microsoft\internet
   Oueries value:
explorer\main\featurecontrol\feature_disable_unicode_handle_closing_callback[6b1383f452de6d7b6d9a656c24904858.exe]
```

```
Queries value:
                         HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_disable_unicode_handle_closing_callback[*]
 Oueries value:
                         \label{lem:hkcu} \verb+KKCU \software \verb+microsoft \verb+windows \verb+current version \verb+\internet+
settings[disablecachingofsslpages]
 Oueries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[perusercookies]
 Queries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[leashlegacycookies]
 Queries value:
                         \label{lem:hkcu} \verb+KKCU \software \verb+microsoft \verb+windows \verb+current version \verb+\internet+
settings[dialupuselansettings]
                         HKLM\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[dialupuselansettings]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[sendextracrlf]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[wpadsearchalldomains]
                         HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[bypasshttpnocachecheck]
                         HKLM \setminus software \setminus microsoft \setminus windows \setminus current version \setminus internet
 Queries value:
settings[bypasshttpnocachecheck]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[bypasssslnocachecheck]
                         HKLM\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[bypasssslnocachecheck]
                         HKLM\software\microsoft\windows\currentversion\internet
 Queries value:
settings[enablehttptrace]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[nocheckautodialoverride]
                         HKLM\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[nocheckautodialoverride]
                         HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[dontusednsloadbalancing]
                         HKLM\software\microsoft\windows\currentversion\internet
 Queries value:
settings[dontusednsloadbalancing]
 Oueries value:
                         HKLM\software\microsoft\windows\currentversion\internet
settings[sharecredswithwinhttp]
                         HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[mimeexclusionlistforcache]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[headerexclusionlistforcache]
 Queries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[dnscacheenabled]
                         HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[dnscacheentries]
                         HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[dnscachetimeout]
 Queries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[warnonpost]
                         HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[warnalwaysonpost]
 Oueries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[warnonzonecrossing]
 Queries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[warnonbadcertrecving]
                         HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[warnonpostredirect]
 Queries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[alwaysdrainonredirect]
                         \label{lem:hkcu} \verb+KKCU \software \verb+ microsoft \verb+ windows \verb+ current version \verb+ internet+ \\
 Queries value:
settings[warnonhttpstohttpredirect]
 Queries value:
HKLM\system\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]
                         HKLM\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[tcpautotuning]
 Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters[winsock_registry_version]
 Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters[namespace_callout]
 Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9[serial_access_num]
 Queries value:
Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9[num_catalog_entries]
 Oueries value:
Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000002[packedcatalogitem]
 Oueries value:
```

- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000004[packedcatalogitem]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000005[packedcatalogitem]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000006[packedcatalogitem] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000007[packedcatalogitem] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000008[packedcatalogitem]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000009[packedcatalogitem] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000010[packedcatalogitem]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000011[packedcatalogitem]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000012[packedcatalogitem] Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000013[packedcatalogitem]
   Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000014[packedcatalogitem] Queries value:
- $HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ protocol\_catalog9 \ catalog\_entries \ 0000000000015 \ [packed catalog item] \ Queries \ value:$
- HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000016[packedcatalogitem] Queries value:
- $HKLM \system \current control set \services \winsock 2 \parameters \protocol\_catalog 9 \catalog\_entries \noon 00000000017 \[packed catalog item] \queries value:$
- $HKLM \system \current control set \services \winsock 2 \parameters \protocol\_catalog 9 \catalog\_entries \noon0000000018 \[packed catalog item] \\ Queries value:$
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5[serial\_access\_num]
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5[num\_catalog\_entries]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000001[librarypath]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000001[displaystring] Queries 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:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000001[enabled]
  Oueries value:
- 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\00000000001[providerinfo] Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[librarypath]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\0000000000002[displaystring]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[providerid]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[addressfamily]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\0000000000002[supportednamespace]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[enabled]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[version]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\0000000000002[storesserviceclassinfo]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[providerinfo] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000003[librarypath]
  Queries value:
- $\label{lem:hklmsystem} HKLM \system \current controls et \services \winsock 2 \parameters \names pace\_catalog 5 \catalog\_entries \names \names \pace\_catalog 5 \catalog\_entries \names \names \pace\_catalog 5 \catalog\_entries \names \names \names \pace\_catalog 5 \catalog\_entries \names \na$
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000003[providerid]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000003[addressfamily]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000003[supportednamespace] Oueries value:
- $\label{lem:hklmsystem} HKLM \system \current controls et \services \winsock 2 \parameters \names pace\_catalog 5 \catalog\_entries \names \pace\_catalog 5 \catalog\_entries \pace\_catalog 5 \catalog 6 \catalog 6 \catalog 6 \catalog 6 \catalog 6 \c$

```
HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap ameters \setminus namespace\_catalog 5 \setminus catalog\_entries \setminus 0000000000003 [version]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog_\catalog_entries\00000000003[storesserviceclassinfo]
  Queries value:
Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000004[librarypath]
  Oueries value:
HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \setminus parameters \setminus names pace\_catalog 5 \setminus catalog\_entries \setminus 0000000000004 [displaystring]
  Oueries value:
HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap ameters \setminus namespace\_catalog S \setminus catalog\_entries \setminus 0000000000004 [providerid]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000004[addressfamily]
  Oueries value:
HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space\_catalog 5 \ (catalog\_entries \ 0000000000004 [supported name space]]
  Queries value:
HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap ameters \setminus namespace\_catalog 5 \setminus catalog\_entries \setminus 0000000000004 [enabled]
  Queries value:
Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog_entries\00000000004[storesserviceclassinfo]
  Oueries value:
HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap ameters \setminus namespace\_catalog 5 \setminus catalog\_entries \setminus 0000000000004 [provider info]
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000005[librarypath]
  Queries value:
HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space\_catalog 5 \ (catalog\_entries \ 0000000000005 \ [displaystring]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000005[addressfamily]
  Queries value:
HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space\_catalog 5 \ (catalog\_entries \ 0000000000005[supported name space]]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace catalog5\catalog entries\00000000005[version]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000005[storesserviceclassinfo]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000006[librarypath]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000006[displaystring]
  Queries value:
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 \ name space\_catalog \ name space\_cata
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000006[addressfamily]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000006[supportednamespace]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000006[enabled]
  Queries value:
Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000006[storesserviceclassinfo]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000006[providerinfo]
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]
  Oueries value:
                                   HKCU\software\microsoft\windows\currentversion\internet
settings[enableautodial]
                                   HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[nonetautodial]
                                   HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[globaluseroffline]
                                   HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[badproxyexpirestime]
  Queries value:
                                   HKLM\software\microsoft\windows\currentversion\internet
```

Queries value: HKLM\software\microsoft\windows\currentversion\internet
settings[disablebranchcache]
Queries value: HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature\_http\_username\_password\_disable[6b1383f452de6d7b6d9a656c24904858.exe]
Queries value: HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature\_http\_username\_password\_disable[\*]
Queries value: HKLM\software\microsoft\tracing[enableconsoletracing]
Queries value:
HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasapi32[enablefiletracing]
Queries value:

```
HKLM \setminus software \setminus microsoft \setminus tracing \setminus 6b1383f452de6d7b6d9a656c24904858\_rasapi32[file tracing mask]
 Oueries value:
HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858_rasapi32[enableconsoletracing]
 Queries value:
HKLM \ software \ microsoft \ tracing \ (6b1383f452de6d7b6d9a656c24904858\_rasapi32[consoletracingmask]
 Queries value:
HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858_rasapi32[maxfilesize]
 Oueries value:
HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858_rasapi32[filedirectory]
 Oueries value:
HKLM \ software \ microsoft \ tracing \ 6b1383f452de6d7b6d9a656c24904858\_rasmancs \ [enable file tracing]
 Queries value:
HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858_rasmancs[filetracingmask]
 Oueries value:
HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858_rasmancs[enableconsoletracing]
 Oueries value:
HKLM \ software \ \{consolet \ racing \ 851383f452de6d7b6d9a656c24904858\_rasmancs \ [consolet \ racing \ mask] \ \}
 Queries value:
HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858_rasmancs[maxfilesize]
 Queries value:
HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858_rasmancs[filedirectory]
                          HKLM\software\microsoft\windows
 Queries value:
nt\currentversion\profilelist[programdata]
                          HKLM\software\microsoft\sqmclient\windows\disabledprocesses[5386cf58]
 Queries value:
 Queries value:
HKLM \setminus software \setminus microsoft \setminus sqmclient \setminus windows \setminus disabled sessions [machine throttling]
HKLM\software\microsoft\sqmclient\windows\disabledsessions[globalsession]
                          HKLM\software\policies\microsoft\windows\currentversion\internet
 Oueries value:
settings[proxysettingsperuser]
                          HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[migrateproxy]
                          HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[proxyenable]
 Queries value:
                          HKCU\software\microsoft\windows\currentversion\internet
settings[proxyserver]
                          HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[proxyoverride]
                          \label{lem:hkcu} \verb+KKCU\+ software\+ microsoft\+ windows\+ current version\+ internet
 Queries value:
settings[autoconfigurl]
 Queries value:
                          HKCU\software\microsoft\windows\currentversion\internet
settings\connections[savedlegacysettings]
                          HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings\connections[defaultconnectionsettings]
                          HKCU\software\microsoft\windows\currentversion\internet
 Oueries value:
settings[autoconfigcustomua]
 Queries value:
                          HKCR\autoproxytypes\application/x-internet-signup[dllfile]
 Queries value:
                          HKCR\autoproxytypes\application/x-internet-signup[fileextensions]
 Oueries value:
                          HKCR\autoproxytypes\application/x-internet-signup[default]
 Queries value:
                          HKCR\autoproxytypes\application/x-internet-signup[flags]
 Oueries value:
                          HKCR\autoproxytypes\application/x-ns-proxy-autoconfig[dllfile]
 Oueries value:
                          HKCR\autoproxytypes\application/x-ns-proxy-autoconfig[fileextensions]
 Queries value:
                          HKCR\autoproxytypes\application/x-ns-proxy-autoconfig[default]
 Queries value:
                          HKCR\autoproxytypes\application/x-ns-proxy-autoconfig[flags]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[queryadaptername]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[disableadapterdomainname]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[usedomainnamedevolution]
 Queries value:
Queries value:
HKLM\svstem\currentcontrolset\services\dnscache\parameters[domainnamedevolutionlevel]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[prioritizerecorddata]
 Queries value:
HKLM \setminus system \setminus current control set \setminus services \setminus tcpip \setminus parameters [prioritize record data]
 Queries 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]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[screenbadtlds]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[screenunreachableservers]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[screendefaultservers]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[dynamicserverqueryorder]
 Queries value:
```

```
HKLM\system\currentcontrolset\services\dnscache\parameters[filterclusterip]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[waitfornameerroronall]
 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]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[enabledaforallnetworks]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[directaccessqueryorder]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[queryipmatching]
                        HKLM\system\currentcontrolset\services\dnscache\parameters[usehostsfile]
 Oueries value:
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[addrconfigcontrol]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registrationenabled]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[disabledynamicupdate]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registerprimaryname]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registeradaptername]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[enableadapterdomainnameregistration]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registerreverselookup]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[disablereverseaddressregistrations]
HKLM\system\currentcontrolset\services\dnscache\parameters[registerwanadapters]
 Queries value:
HKLM \setminus system \setminus current control set \setminus services \setminus tcpip \setminus parameters [disable wandynamic update]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registrationttl]
HKLM\svstem\currentcontrolset\services\tcpip\parameters[defaultregistrationttl]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registrationrefreshinterval]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registrationmaxaddresscount]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[maxnumberofaddressestoregister]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[updatesecuritylevel]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[updatetopleveldomainzones]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[downcasespncauseapiowneristoolazy]
 Queries value:
HKLM\svstem\currentcontrolset\services\dnscache\parameters[registrationoverwrite]
 Queries value:
                        HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachesize]
 Oueries value:
                        HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachettl]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[maxnegativecachettl]
HKLM\system\currentcontrolset\services\dnscache\parameters[adaptertimeoutlimit]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[serverprioritytimelimit]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachedsockets]
HKLM\system\currentcontrolset\services\dnscache\parameters[enablemulticast]
 Queries value:
Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[multicastsenderflags]
HKLM\system\currentcontrolset\services\dnscache\parameters[multicastsendermaxtimeout]
 Queries value:
                        HKLM\system\currentcontrolset\services\dnscache\parameters[dnstest]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[usecompartments]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[cacheallcompartments]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[usenewregistration]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[resolverregistration]
 Queries value:
```

```
HKLM\system\currentcontrolset\services\dnscache\parameters[resolverregistrationonly]
  Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[dnsquerytimeouts]
  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[6b1383f452de6d7b6d9a656c24904858.exe]
  Queries value:
                                     HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_mime_handling[*]
  Oueries value:
                                    HKLM\system\currentcontrolset\services\winsock2\parameters[autodialdll]
  Queries value:
                                     HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_unc_savedfilecheck[6b1383f452de6d7b6d9a656c24904858.exe]
                                    HKLM\software\microsoft\internet
  Oueries value:
explorer\main\featurecontrol\feature_unc_savedfilecheck[*]
                                     HKLM\software\policies\microsoft\internet
  Queries value:
explorer\security[disablesecuritysettingscheck]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings\zones\0[flags]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings\zones\1[flags]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings\zones\2[flags]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings\zones\3[flags]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings\zones\4[flags]
                                     HKCU\software\microsoft\internet
  Oueries value:
explorer\main\featurecontrol\feature_localmachine_lockdown[6b1383f452de6d7b6d9a656c24904858.exe]
                                     HKCU\software\microsoft\internet
  Queries value:
explorer\main\featurecontrol\feature_localmachine_lockdown[*]
  Oueries value:
                                     HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_localmachine_lockdown[6b1383f452de6d7b6d9a656c24904858.exe]
  Oueries value:
                                     HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_localmachine_lockdown[*]
                                     HKLM\software\policies\microsoft\windows\currentversion\internet
  Queries value:
settings[createuricachesize]
  Queries value:
                                     \label{lem:hkcu} \verb+KKCU \software \policies \microsoft \windows \current version \normalisation \cite{thm:hkcu}. The third \cite{thm:hkcu} is the third \cite{thm:hkcu} is the third \cite{thm:hkcu} is the third \cite{thm:hkcu}. The third \cite{thm:hkcu} is the third \cite{thm
settings[createuricachesize]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[createuricachesize]
                                     HKLM\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[createuricachesize]
  Queries value:
                                     \label{lem:hklm} \verb+Kklm/software/policies/microsoft/windows/currentversion/internet \\
settings[enablepunycode]
                                     HKCU\software\policies\microsoft\windows\currentversion\internet
  Oueries value:
settings[enablepunycode]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[enablepunvcode]
  Queries value:
                                     HKCU\software\microsoft\internet explorer\ietld[ietlddllversionlow]
                                     HKCU\software\microsoft\internet explorer\ietld[ietlddllversionhigh]
  Queries value:
                                     HKLM\svstem\currentcontrolset\control\cmf\configfsvstem]
  Oueries value:
  Queries value:
                                     HKCU\software\microsoft\internet explorer\ietld[ietldversionlow]
  Oueries value:
                                     HKCU\software\microsoft\internet explorer\ietld[ietldversionhigh]
  Oueries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings\zonemap[autodetect]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings\zones\3[1a10]
  Queries value:
                                     HKLM\system\currentcontrolset\services\winsock\parameters[transports]
  Queries value:
HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[mapping]
  Queries value:
HKLM\system\currentcontrolset\services\psched\parameters\winsock[mapping]
                                     HKLM\system\currentcontrolset\services\winsock\setup
  Queries value:
migration\providers\psched[winsock 2.0 provider id]
  Queries value:
                                     HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[mapping]
  Oueries value:
                                     HKLM\system\currentcontrolset\services\winsock\setup
migration\providers\tcpip[winsock 2.0 provider id]
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[minsockaddrlength]
  Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[maxsockaddrlength]
  Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[usedelayedacceptance]
  Oueries value:
HKLM\svstem\currentcontrolset\services\tcpip\parameters\winsock[helperdllname]
  Oueries value:
                                     HKLM\system\currentcontrolset\services\winsock\setup
migration\providers\tcpip6[winsock 2.0 provider id]
  Oueries value:
HKLM \setminus system \setminus current control set \setminus services \setminus tcpip \{ parameters \setminus winsock [minsock addrlength] \} \}
```

Oueries value:

HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[maxsockaddrlength]

Oueries value:

 $\label{local_hammeters} $$HKLM \setminus System \setminus Current control set \end{set} $$ \end{set} $$$ \end{set} $$ \end{set} $$ \end{set} $$ \end{set} $$$ \end{set} $$$ \end{set} $$$ \end{set} $$$ \end{set} $$$ \end{set} $$$$ 

Queries value:

HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[helperdllname]

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

Oueries value:

Oueries value:

 $\label{lem:hklmsystem} HKLM \system \current control set \services \tcpip6 \parameters \time faces \{128919e8-8a5e-41d1-ac17-c19ce8a73253\} [search list]$ 

Queries value:

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

Queries value:

 $\label{lem:hkkm} HKLM \system \current controlset \services \troip \parameters \ interfaces \ \{128919e8-8a5e-41d1-ac17-c19ce8a73253\} \ [registration enabled]$ 

Oueries value:

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

Queries value:

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

Queries value:

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

Oueries value:

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

Queries value:

HKLM\system\currentcontrolset\services\tcpip6\parameters\interfaces\{128919e8-8a5e-41d1-ac17-c19ce8a73253}[nameserver]

Queries value:

 $\label{lem:hkkm} HKLM \system \current controlset \ervices \true \parameters \ervices \ervi$ 

Queries value:

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

Queries value:

Queries value:

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

Queries value:

Queries value:

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

Queries value:

Queries value:

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

Queries value:

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

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

Queries value:

 $\label{lem:hklmsystem} HKLM \system \current control set \services \troip \parameters \troip \end{2.5} I query adapter name]$ 

Queries value:

 $\label{lem:hklm} HKLM \system \current control set \services \tcpip \parameters \ interfaces \ \{128919e8-8a5e-41d1-ac17-c19ce8a73253\} \ [disable adapter domain name]$ 

Queries value:

 $\label{lem:hklmsystem} HKLM \system \current control set \services \true interfaces \end{128919e8-8a5e-41d1-ac17-c19ce8a73253} \ [registration max address count]$ 

Queries value:

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

Queries value:

 $\label{lem:hklmsystem} HKLM \system \current controls et \services \tcpip \parameters \ interfaces \ \{128919e8-8a5e-41d1-ac17-c19ce8a73253\} \ [enable multicast]$ 

Queries value:

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

Queries value:

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

```
Oueries value:
806e6f6e6963}[disabledynamicupdate]
806e6f6e6963}[enableadapterdomainnameregistration]
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{e29ac6c2-7037-11de-816d-
806e6f6e6963}[registrationmaxaddresscount]
806e6f6e6963}[maxnumberofaddressestoregister]
  Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{e29ac6c2-7037-11de-816d-
806e6f6e6963}[enablemulticast]
  Queries value:
                                  HKLM\system\currentcontrolset\services\tcpip\parameters[searchlist]
                                  HKLM\software\microsoft\com3[com+enabled]
  Oueries value:
  Queries value:
                                  HKCR\clsid\{dcb00c01-570f-4a9b-8d69-199fdba5723b}[]
  Queries value:
                                 HKCR\clsid\{dcb00c01-570f-4a9b-8d69-
199fdba5723b}\inprocserver32[inprocserver32]
                                  HKCR\clsid\{dcb00c01-570f-4a9b-8d69-199fdba5723b}\inprocserver32[]
  Queries value:
  Queries value:
                                  HKCR\clsid\{dcb00c01-570f-4a9b-8d69-
199fdba5723b}\inprocserver32[threadingmodel]
  Queries value:
                                  HKLM\software\microsoft\ole[maxsxshashcount]
  Queries value:
                                  HKLM\software\microsoft\rpc\extensions[ndroleextdll]
  Oueries value:
                                  HKCR\clsid\{a47979d2-c419-11d9-a5b4-001185ad2b89}[]
  Queries value:
                                  HKLM\software\microsoft\ole\appcompat[raisedefaultauthnlevel]
  Queries value:
                                  HKLM\software\microsoft\ole[defaultaccesspermission]
                                  \label{lem:hklmsystem} \verb| HKLM \rangle is a [everyone includes a nonymous] | \\
  Oueries value:
  Queries value:
                                  HKLM \ software \ microsoft \ strong
cryptographic provider[type]
  Queries value:
                                 HKLM\software\microsoft\cryptography\defaults\provider\microsoft strong
cryptographic provider[image path]
  Queries value:
                                  HKLM\system\currentcontrolset\services\netbt\linkage[export]
                                  HKLM\system\currentcontrolset\control\lsa\fipsalgorithmpolicy[enabled]
  Oueries value:
  Queries value:
                                  HKLM\system\currentcontrolset\control\lsa[fipsalgorithmpolicy]
  Queries value:
                                  HKLM\software\policies\microsoft\cryptography[privkeycachemaxitems]
  Oueries value:
HKLM\software\policies\microsoft\cryptography[privkeycachepurgeintervalseconds]
                                  HKLM\software\policies\microsoft\cryptography[privatekeylifetimeseconds]
  Queries value:
                                  {\tt HKLM \backslash software \backslash microsoft \backslash cryptography [machineguid]}
  Oueries value:
  Queries value:
                                  HKCR\interface\{00000134-0000-0000-c000-00000000046}\proxystubclsid32[]
  Queries value:
                                  HKLM\software\microsoft\rpc\extensions[remoterpcdll]
                                  {\tt HKLM \setminus software \setminus microsoft \setminus ole[maximum allowed allocation size]}
  Oueries value:
                                  HKCR\interface\{d0074ffd-570f-4a9b-8d69-199fdba5723b}\proxystubclsid32[]
  Oueries value:
                                  HKCR\clsid\{1299cf18-c4f5-4b6a-bb0f-2299f0398e27}[]
  Queries value:
  Oueries value:
                                 HKCR\clsid\{1299cf18-c4f5-4b6a-bb0f-
2299f0398e27}\inprocserver32[inprocserver32]
                                 HKCR\clsid\{1299cf18-c4f5-4b6a-bb0f-2299f0398e27}\inprocserver32[]
  Oueries value:
                                 HKCR\clsid\{1299cf18-c4f5-4b6a-bb0f-
  Queries value:
2299f0398e27}\inprocserver32[threadingmodel]
                                 HKCR\interface\{26656eaa-54eb-4e6f-8f85-4f0ef901a406}\proxystubclsid32[]
  Oueries value:
                                 HKCR \ interface \ \{8a40a45d-055c-4b62-abd7-6d613e2ceaec\} \ proxystubclsid32[]
  Oueries value:
                                  HKCR\interface\{55272a00-42cb-11ce-8135-00aa004bb851}\proxystubclsid32[]
  Queries value:
  Oueries value:
                                 HKCR\clsid\{b196b286-bab4-101a-b69c-00aa00341d07}[]
                                 HKCR\clsid\{b196b286-bab4-101a-b69c-
  Queries value:
00aa00341d07}\inprocserver32[inprocserver32]
                                 HKCR\clsid\{b196b286-bab4-101a-b69c-00aa00341d07}\inprocserver32[]
  Oueries value:
                                 HKCR\clsid\{b196b286-bab4-101a-b69c-
  Oueries value:
00aa00341d07}\inprocserver32[threadingmodel]
  Queries value:
                                 HKCR\interface\{bcd1de7e-2db1-418b-b047-4a74e101f8c1}\proxystubclsid32[]
  Oueries value:
                                  HKCR\interface\{2a1c9eb2-df62-4154-b800-63278fcb8037}\proxystubclsid32[]
                                  HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings\wpad[wpadlastnetwork]
                                 HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[autoproxydetecttype]
  Queries value:
                                  HKCU\software\microsoft\windows\currentversion\explorer[maximizeapps]
  Oueries value:
                                  HKLM\software\microsoft\windows\currentversion\explorer[maximizeapps]
b131-e946b44c8dd5}[suppressionpolicy]
\label{thm:local-condition} \begin{tabular}{ll} HKLM \label{thm:local-condition} HKLM \label{thm:local-condition} \begin{tabular}{ll} HKLM \label{thm:local-condition} HKLM \label{thm:local-condition} \begin{tabular}{ll} HKLM \label{thm:local-condition} HKLM \label{thm:local-condition} HKLM \label{thm:local-condition} \begin{tabular}{ll} HKLM \label{thm:local-condition} HKLM \label{thm:local-condition} HKLM \label{thm:local-condition} HKLM \label{thm:local-condition} HKLM \label{thm:local-condition} \begin{tabular}{ll} HKLM \label{thm:local-condition} HK
90e6-4acd2e9408fe}[suppressionpolicy]
  Queries value:
bc06-4ada335c892b}[suppressionpolicy]
```

 $\label{lem:hklmsoftware} HKLM\software\microsoft\windows\currentversion\explorer\desktop\namespace\{26ee0668-a00a-44d7-9371-beb064c98683}\[suppressionpolicy]\ Oueries\ value:$ 

 $HKLM\software\mbox{$\mathbb{4}$36a54d-038b-4685-ab02-99bb52d3fb8b}[suppressionpolicy] \\$ 

Oueries value:  $HKLM \ software \ microsoft \ windows \ current version \ explorer \ desktop \ namespace \ \{450d8fba-ad25-11d0-desktop \ namespace\}$ 98a8-0800361b1103}[suppressionpolicy] 8fce-1d8870fdcba0}[suppressionpolicy] Oueries value: HKLM\software\microsoft\windows\currentversion\explorer\desktop\namespace\{59031a47-3f72-44a7-89c5-5595fe6b30ee}[suppressionpolicy] Oueries value: 9f08-00aa002f954e}[suppressionpolicy] Queries value: 9454-beb04e94c819}[suppressionpolicy] Oueries value:  $HKLM \setminus software \setminus irrosoft \setminus ir$ ac2b-553d3d65f0ea}[suppressionpolicy] Queries value:  $HKLM \ software \ microsoft \ windows \ current version \ explorer \ desktop \ names pace \ \{9343812e-1c37-4a49-1c37-4a7-1c37-4a7-1c37-4a7-1c37-4a7-1c37-4a7-1c37-4a$ a12e-4b2d810d956b}[suppressionpolicy] Queries value: HKLM\software\microsoft\windows\currentversion\explorer\desktop\namespace\{98d99750-0b8a-4c59-9151-589053683d73}[suppressionpolicy] Queries value:  $HKLM \ software \ microsoft \ windows \ current version \ explorer \ desktop \ names pace \ \{b4fb3f98-c1ea-428d-b4fb56-b4fb56-b4fb56-b4fb56-b4fb56-b4fb56-b4fb56-b4fb56-b4fb56-b4fb56-b4fb56-b4fb56-b4fb5$ a78a-d1f5659cba93}[suppressionpolicy] Queries value: a086-b309680c6b7e}[suppressionpolicy] Oueries value: HKLM\software\microsoft\windows\currentversion\explorer\desktop\namespace\{daf95313-e44d-46afbe1b-cbacea2c3065}[suppressionpolicy] Queries value: 8f95-4e922c26259e}[suppressionpolicy] Oueries value: 83b1-96b02cfe0d52}[suppressionpolicy] Queries value:  $HKLM \ software \ microsoft \ windows \ current version \ explorer \ desktop \ names pace \ \{f02c1a0d-be21-4350-be21-450-be21-450-be21-450-be21-450-be21-450-be21-450-be21-450-be21-450-be21-450-be21-450-be21-450-be21-450-be21-450-be21-450-be21-4$ 88b0-7367fc96ef3c}[suppressionpolicy] Oueries value: af59-a1ebe3392799}[suppressionpolicy] HKCR\clsid\{20d04fe0-3aea-1069-a2d8-Queries value: 08002b30309d}\shellfolder[attributes] Queries value: HKCR\clsid\{20d04fe0-3aea-1069-a2d8-08002b30309d}\shellfolder[callforattributes] Queries value: HKCR\clsid\{20d04fe0-3aea-1069-a2d8-08002b30309d}\shellfolder[restrictedattributes] Oueries value: HKCR\clsid\{20d04fe0-3aea-1069-a2d8-08002b30309d}\shellfolder[wantsfordisplay] HKCR\clsid\{20d04fe0-3aea-1069-a2d8-Queries value: 08002b30309d}\shellfolder[hidefolderverbs] Queries value: HKCR\clsid\{20d04fe0-3aea-1069-a2d8-08002b30309d}\shellfolder[usedrophandler] HKCR\clsid\{20d04fe0-3aea-1069-a2d8-Oueries value: 08002b30309d}\shellfolder[wantsforparsing] HKCR\clsid\{20d04fe0-3aea-1069-a2d8-Queries value: 08002b30309d}\shellfolder[wantsparsedisplayname] Oueries value: HKCR\clsid\{20d04fe0-3aea-1069-a2d8-08002b30309d}\shellfolder[queryforoverlay] HKCR\clsid\{20d04fe0-3aea-1069-a2d8-Oueries value: 08002b30309d}\shellfolder[mapnetdriveverbs] HKCR\clsid\{20d04fe0-3aea-1069-a2d8-Oueries value: 08002b30309d}\shellfolder[queryforinfotip] Queries value: HKCR\clsid\{20d04fe0-3aea-1069-a2d8-08002b30309d}\shellfolder[hideinwebview] HKCR\clsid\{20d04fe0-3aea-1069-a2d8-Oueries value: 08002b30309d}\shellfolder[hideondesktopperuser] HKCR\clsid\{20d04fe0-3aea-1069-a2d8-Oueries value: 08002b30309d}\shellfolder[wantsaliasednotifications] Queries value: HKCR\clsid\{20d04fe0-3aea-1069-a2d8-08002b30309d}\shellfolder[wantsuniversaldelegate] Oueries value: HKCR\clsid\{20d04fe0-3aea-1069-a2d8-

```
08002b30309d}]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
 Oueries value:
08002b30309d}\shellfolder[attributes]
 Queries value:
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
08002b30309d}\shellfolder[callforattributes]
 Queries value:
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
08002b30309d}\shellfolder[restrictedattributes]
 Oueries value:
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
08002b30309d}\shellfolder[wantsfordisplay]
 Oueries value:
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
08002b30309d}\shellfolder[hidefolderverbs]
 Queries value:
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
08002b30309d}\shellfolder[usedrophandler]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
 Oueries value:
08002b30309d}\shellfolder[wantsforparsing]
 Queries value:
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
08002b30309d}\shellfolder[wantsparsedisplayname]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
 Queries value:
08002b30309d}\shellfolder[queryforoverlay]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
 Oueries value:
08002b30309d}\shellfolder[mapnetdriveverbs]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
 Queries value:
08002b30309d}\shellfolder[queryforinfotip]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
 Queries value:
08002b30309d}\shellfolder[hideinwebview]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
 Queries value:
08002b30309d}\shellfolder[hideondesktopperuser]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
 Queries value:
08002b30309d}\shellfolder[wantsaliasednotifications]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
 Queries value:
08002b30309d}\shellfolder[wantsuniversaldelegate]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
 Queries value:
08002b30309d}\shellfolder[nofilefolderjunction]
 Queries value:
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
08002b30309d}\shellfolder[pintonamespacetree]
                         HKCR\clsid\{208d2c60-3aea-1069-a2d7-
08002b30309d}\shellfolder[hasnavigationenum]
 Oueries value:
08002b30309d}1
 Queries value:
                         HKCR\clsid\{871c5380-42a0-1069-a2ea-
08002b30309d}\shellfolder[attributes]
                         HKCR\clsid\{871c5380-42a0-1069-a2ea-
 Oueries value:
08002b30309d}\shellfolder[callforattributes]
                         HKCR\clsid\{871c5380-42a0-1069-a2ea-
 Oueries value:
08002b30309d}\shellfolder[restrictedattributes]
 Queries value:
                         HKCR\clsid\{871c5380-42a0-1069-a2ea-
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                         HKCR\clsid\{871c5380-42a0-1069-a2ea-
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extensions \\ \\ cached [\{871c5380-42a0-1069-a2ea-08002b30309d\} \\ \\ \{000214e6-0000-0000-c000-0000000000046\} \\ \\ \\ \\ extensions \\ \\ \\ extensions \\ \\ extensio
0xffff1
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  Oueries value:
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```

```
Queries value:
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HKCR\clsid\{e345f35f-9397-435c-8f95-

Queries value:

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```
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HKCU\software\microsoft\windows\currentversion\explorer\advanced[hideicons]
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HKCU\software\microsoft\windows\currentversion\explorer\advanced[webview]
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Oueries value:

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Oueries value:

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Queries value: HKCR\allfilesystemobjects[docobject]
Queries value: HKCR\directory[browseinplace]
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Queries value: HKCR\directory[isshortcut]
Queries value: HKCR\folder[isshortcut]

 Queries value:
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 Queries value:
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 Queries value:
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 Queries value:
 HKCR\folder[nevershowext]

Queries value: HKCR\allfilesystemobjects[nevershowext]

Queries value: HKCR\.exe[]

Queries value: HKCR\exefile[docobject]

 $\label{lem:condition} Queries \ value: \\ \qquad \qquad \text{HKCR} \ systemfile associations} \ \cdot \ exe[docobject]$ 

Queries value: HKCR\exefile[browseinplace]

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

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Queries value:

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Queries value:

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Queries value:

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Queries value

 $\label{lem:hklmsoftware} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\folderdescriptions\folderdescriptions\folderdescription\folderdescriptio$ 

Queries value:

 $\label{lem:hkklmsoftwaremicrosoftwindows} Label{lem:hkklmsoftwaremicrosoftwindows} Label{lem:hkklmsoftwaremicroso$ 

Oueries value:

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

Queries value:

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

Queries value:

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Queries value:

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

Queries value:

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Queries value:

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Queries value:

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Queries value

 $\label{local-equation} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\{b4bfcc3a-db2c-424c-b029-7fe99a87c641\}\[local\ rection\]$ 

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Queries value:

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Queries value:

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

Queries value:

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

Queries value:

 $\label{lem:hklmsoftwaremicrosoftwindows} Later the substitution of the substitution$ 

Oueries value:

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

Queries value:

 $\label{lem:hklmsoftware} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\folder$ 

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]

Queries value:

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

Queries value:

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

Oueries value:

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

Oueries value:

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

Oueries value

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

Oueries value

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

Queries value:

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

Queries value:

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

Oueries value

Queries value:

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

Oueries value:

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

Queries value:

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

Queries value:

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

Queries value:

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

Oueries value:

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

Queries value:

 $\label{local-basis} HKLM\software\microsoft\windows\currentversion\explorer\folderdescriptions\fill\\ HScape - b4786-b46f-bd1dc332aeae\fill\\ [stream]$ 

Queries value:

 $\label{lem:hklmsoftwaremicrosoftwindows} In $$HklM \circ f'ware\microsoft\windows \currentversion \explorer \folderdescriptions \{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae\}[publishexpandedpath]$ 

Queries value

 $\label{lem:hklmsoftwaremicrosoftwindows} current version \end{allowersplotter} $$Hklm\software\microsoft\windows\current version\end{allowersplotter} $$4786-b4ef-bd1dc332aeae\[attributes\]$ 

Queries value:

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

Queries value:

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

Queries value:  $HKCU\software\microsoft\windows\currentversion\explorer\user shell folders[{1b3ea5dc-b587-4786-b4ef-bd1dc332aeae}]$ 

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

Queries 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[]

```
HKCR\.bat[]
 Oueries value:
 Oueries value:
                          HKCR\.cer[]
 Oueries value:
                          HKCR\.chm[]
                          HKCR\.cmd[]
 Queries value:
 Oueries value:
                          HKCR\.com[]
 Queries value:
                          HKCR\.cpl[]
 Oueries value:
                          HKCR\.crt[]
                          HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}[]
 Oueries value:
 Oueries value:
                          HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-
00c04fb6bfc4}\inprocserver32[inprocserver32]
                          \label{linear_hkcr} \begin{tabular}{ll} HKCR\clsid{7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4}\nprocserver32[] \end{tabular}
 Oueries value:
 Queries value:
                          HKCR\clsid\{7b8a2d94-0ac9-11d1-896c-
00c04fb6bfc4}\inprocserver32[threadingmodel]
 Oueries value:
                          HKLM\software\policies\microsoft\windows\currentversion\internet
settings[specialfolderscachesize]
 Queries value:
                          HKCU\software\policies\microsoft\windows\currentversion\internet
settings[specialfolderscachesize]
 Queries value:
                          HKCU\software\microsoft\windows\currentversion\internet
settings[specialfolderscachesize]
                          HKLM\software\microsoft\windows\currentversion\internet
 Queries value:
settings[specialfolderscachesize]
                          HKLM\software\microsoft\internet
 Queries value:
explorer\main\featurecontrol\feature_protocol_lockdown[6b1383f452de6d7b6d9a656c24904858.exe]
 Queries value:
                          HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_protocol_lockdown[*]
                          HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings\zones\0[1806]
                          HKLM\software\microsoft\windows\currentversion\internet
 Queries value:
settings\zones\0[1806]
 Queries value:
                          HKCR\exefile\shell\open\command[command]
 Queries value:
                          HKCR\exefile\shell\open\command[]
                          HKCR\exefile\shell\open[setworkingdirectoryfromtarget]
 Queries value:
                          HKCR\exefile\shell\open[noworkingdirectory]
 Queries value:
 Queries value:
HKLM \ software \ policies \ microsoft \ windows \ safer \ (code identifiers \ [authenticode enabled]
                          HKLM\software\microsoft\windows nt\currentversion\image file execution
 Queries value:
options[disablelocaloverride]
                          HKCU\software\microsoft\visual basic\6.0[allowunsafeobjectpassing]
 Oueries value:
 Queries value:
                          HKLM\software\microsoft\windows\html help[.hlp]
 Queries value:
                          HKLM\software\microsoft\windows nt\currentversion\compatibility32[cmd]
 Oueries value:
                          HKLM\software\microsoft\command processor[disableunccheck]
                          HKLM\software\microsoft\command processor[enableextensions]
 Queries value:
                          HKLM\software\microsoft\command processor[delayedexpansion]
 Oueries value:
 Oueries value:
                          HKLM\software\microsoft\command processor[defaultcolor]
                          HKLM\software\microsoft\command processor[completionchar]
 Oueries value:
                          HKLM\software\microsoft\command processor[pathcompletionchar]
 Queries value:
 Oueries value:
                          HKLM\software\microsoft\command processor[autorun]
 Queries value:
                          HKCU\software\microsoft\command processor[disableunccheck]
 Oueries value:
                          HKCU\software\microsoft\command processor[enableextensions]
 Oueries value:
                          HKCU\software\microsoft\command processor[delayedexpansion]
                          HKCU\software\microsoft\command processor[defaultcolor]
 Oueries value:
                          HKCU\software\microsoft\command processor[completionchar]
 Oueries value:
 Queries value:
                          HKCU\software\microsoft\command processor[pathcompletionchar]
                          HKCU\software\microsoft\command processor[autorun]
 Queries value:
                          \label{lem:hkcu} \verb+KKCU\+software\+microsoft\+windows\+currentversion\+explorer\+shell
 Oueries value:
folders[cache]
 Oueries value:
                          HKLM\software\microsoft\windows
nt\currentversion\appcompatflags\layers[c:\windows\system32\tasklist.exe]
 Oueries value:
                          HKLM\software\microsoft\windows
nt\currentversion\compatibility32[tasklist]
 Queries value:
                          HKLM\software\microsoft\wbem\cimom[logging]
 Oueries value:
HKLM\system\currentcontrolset\services\lanmanworkstation\parameters[rpccachetimeout]
                          HKCR\clsid\{4590f811-1d3a-11d0-891f-00aa004b2e24}[]
 Oueries value:
 Queries value:
                          HKCR\clsid\{4590f811-1d3a-11d0-891f-
00aa004b2e24}\inprocserver32[inprocserver32]
 Queries value:
                          HKCR\clsid\{4590f811-1d3a-11d0-891f-00aa004b2e24}\inprocserver32[]
                          HKCR\clsid\{4590f811-1d3a-11d0-891f-
 Oueries value:
00aa004b2e24}\inprocserver32[threadingmodel]
                          HKLM\software\microsoft\wbem\cimom[logging directory]
 Oueries value:
 Queries value:
                          HKLM\software\microsoft\wbem\cimom[log file max size]
                          HKCR\clsid\{8bc3f05e-d86b-11d0-a075-00c04fb68820}[]
 Oueries value:
 Oueries value:
                          HKLM\software\microsoft\sqmclient\windows\disabledprocesses[36a1bda3]
 Queries value:
                          HKCR\interface\{f309ad18-d86a-11d0-a075-00c04fb68820}\proxystubclsid32[]
 Queries value:
                          HKCR\clsid\{7c857801-7381-11cf-884d-00aa004b2e24}[]
                          HKCR\clsid\{7c857801-7381-11cf-884d-
 Oueries value:
00aa004b2e24}\inprocserver32[inprocserver32]
                          HKCR\clsid\{7c857801-7381-11cf-884d-00aa004b2e24}\inprocserver32[]
 Oueries value:
 Oueries value:
                          HKCR\clsid\{7c857801-7381-11cf-884d-
00aa004b2e24}\inprocserver32[threadingmodel]
 Queries value:
                          HKCR \land eface \land \{d4781cd6-e5d3-44df-ad94-930efe48a887\} \land proxystubclsid32[]
                          HKLM\system\currentcontrolset\control\nls\customlocale[en]
 Oueries value:
 Queries value:
                          HKLM\system\currentcontrolset\control\nls\extendedlocale[en]
```

Queries value: HKCR\interface\{9556dc99-828c-11cf-a37e-00aa003240c7}\proxystubclsid32[]

Queries value: HKCR\clsid\{d68af00a-29cb-43fa-8504-ce99a996d9ea}[]

Queries value: HKCR\clsid\{d68af00a-29cb-43fa-8504-

ce99a996d9ea}\inprocserver32[inprocserver32]

Queries value: HKCR\clsid\{d68af00a-29cb-43fa-8504-ce99a996d9ea}\inprocserver32[]

Queries value: HKCR\clsid\{d68af00a-29cb-43fa-8504-

ce99a996d9ea}\inprocserver32[threadingmodel]

Queries value: HKLM\software\microsoft\wbem\cimom[processid]

Queries value: HKLM\software\microsoft\wbem\cimom[enableprivateobjectheap]

 Queries value:
 HKLM\software\microsoft\wbem\cimom[contextlimit]

 Queries value:
 HKLM\software\microsoft\wbem\cimom[objectlimit]

 Queries value:
 HKLM\software\microsoft\wbem\cimom[identifierlimit]

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

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

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

00104b703efd}\inprocserver32[inprocserver32]

Queries value: HKCR\clsid\{1b1cad8c-2dab-11d2-b604-00104b703efd}\inprocserver32[]

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

00104b703efd}\inprocserver32[threadingmodel]

Queries value: HKCR\interface\{1c1c45ee-4395-11d2-b60b-00104b703efd}\proxystubclsid32[] Queries value: HKCR\interface\{423ec01e-2e35-11d2-b604-00104b703efd}\proxystubclsid32[]

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

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

00c04fb68820}\inprocserver32[inprocserver32]

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

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

00c04fb68820}\inprocserver32[threadingmodel]

Sets/Creates value:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasapi32[enablefiletracing]
Sets/Creates value:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasapi32[enableconsoletracing]
Sets/Creates value:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasapi32[filetracingmask]
 Sets/Creates value:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasapi32[consoletracingmask]

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasapi32[maxfilesize]
 Sets/Creates value:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasapi32[filedirectory]
Sets/Creates value:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasmancs[enablefiletracing]
Sets/Creates value:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasmancs[enableconsoletracing]
Sets/Creates value:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasmancs[filetracingmask]
 Sets/Creates value:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasmancs[consoletracingmask]
Sets/Creates value:

HKLM\software\microsoft\tracing\6b1383f452de6d7b6d9a656c24904858\_rasmancs[maxfilesize]
 Sets/Creates value:

 $HKLM \setminus software \setminus microsoft \setminus tracing \setminus 6b1383f452de6d7b6d9a656c24904858\_rasmancs \\ [filedirectory]$ 

 $\label{thm:condition} \mbox{Value changes:} \qquad \mbox{HKCU\software\mbox{\sm microsoft\windows\currentversion\sm internet}}$ 

settings[proxyenable]

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

settings\connections[savedlegacysettings]

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

 $\verb|settings\zonemap[uncasintranet]|\\$ 

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

settings\zonemap[autodetect]