# Malware Analysis Appliance by Blue Coat Systems, Inc.

### Task Details

Host: mag2, Sample ID: 101, Task ID: 402

Task ID: 402 Risk Level: 1

Date Processed: 2016-04-28 12:57:52 (UTC)

Processing Time: 61.16 seconds
Virtual Environment: IntelliVM

Execution Arguments: "c:\windows\temp\00aca0729582792a46b971951043ff06.exe"

Sample ID: 101
Type: basic
Owner: admin

Label: 00aca0729582792a46b971951043ff06

Date Added: 2016-04-28 12:45:00 (UTC)

File Type: PE32:win32:gui File Size: 203723 bytes

MD5: 00aca0729582792a46b971951043ff06

SHA256: 0afff2c277d7116b78d29818c8a9422daea4846a70a311c1696f262597209006

Description: None

# Pattern Matching Results

HTTP connection - response code 404 (file not found) [HTTP, GET, POST, web, network, response code]

### Static Events

Anomaly: PE: Contains a virtual section

#### Process/Thread Events

Creates process: C:\windows\temp\00aca0729582792a46b971951043ff06.exe

["C:\windows\temp\00aca0729582792a46b971951043ff06.exe"]

## Named Object Events

Creates mutex: \Sessions\1\BaseNamedObjects\DBWinMutex

Creates mutex: \Sessions\1\BaseNamedObjects\ZonesCacheCounterMutex
Creates mutex: \Sessions\1\BaseNamedObjects\ZonesLockedCacheCounterMutex

# File System Events

Creates: C:\Users\Admin

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

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

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

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

Creates: C:\Windows\Temp\HandWalletUpdate.original

Opens: C:\Windows\Prefetch\00ACA0729582792A46B971951043F-1D996432.pf

Opens: C:\Windows

Opens: C:\Windows\System32\wow64.dll

Opens: C:\Windows\SysW0W64

Opens: C:\Windows\Temp\00aca0729582792a46b971951043ff06.exe
Opens: C:\Windows\SysWOW64\ntdll.dll

Opens: C:\Windows\SysWOW64\kerne132.dl1
Opens: C:\Windows\SysWOW64\Kerne1Base.dl1
Opens: C:\Windows\apppatch\sysmain.sdb

Opens: C:\Windows\WinSxS\x86\_microsoft.windows.common-

controls\_6595b64144ccf1df\_6.0.9200.16384\_none\_893961408605e985

Opens: C:\Windows\WinSxS\x86\_microsoft.windows.common-controls\_6595b64144ccf1df\_6.0.9200.16384\_none\_893961408605e985\comctl32.dll

Opens: C:\Windows\SysWOW64\sechost.dll
Opens: C:\Windows\SysWOW64\gdi32.dll
Opens: C:\Windows\SysWOW64\user32.dll
Opens: C:\Windows\SysWOW64\user32.dll

Opens: C:\Windows\SysWOW64\bcryptprimitives.dll Opens: C:\Windows\SysWOW64\cryptbase.dll Opens: C:\Windows\SysWOW64\sspicli.dll Opens: C:\Windows\SysWOW64\rpcrt4.dll Opens: C:\Windows\SysWOW64\advapi32.dll C:\Windows\SysWOW64\combase.dll Opens: Opens: C:\Windows\SysWOW64\oleaut32.dll Opens: C:\Windows\SysWOW64\shlwapi.dll C:\Windows\SysWOW64\shell32.dll Opens: C:\Windows\SysWOW64\imm32.dll Opens: C:\Windows\SysWOW64\msctf.dll Opens: C:\Windows\SysWOW64\ole32.dll Opens: C:\Windows\WindowsShell.Manifest Opens:

Opens: C:\Windows\Temp

Opens: C:\Windows\SysWOW64\uxtheme.dll

Opens: C:\Windows\SysWOW64\dwmapi.dll

 $Opens: \\ C: \verb|Windows\Globalization\Sorting\SortDefault.nls|\\$ 

Opens: C:\windows\temp\HandWalletUpdate.original

Opens: C:\Windows\SysWOW64\http:\www.handwallet.com\update\

Opens: C:\Windows\SysWOW64\iertutil.dll
Opens: C:\Windows\SysWOW64\wininet.dll
Opens: C:\Windows\SysWOW64\secur32.dll
Opens: C:\Windows\SysWOW64\SHCore.dll
Opens: C:\Windows\SysWOW64\profapi.dll

Opens: C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet

Files\counters.dat

Opens: C:\Windows\SysWOW64\nsi.dll Opens: C:\Windows\SysWOW64\ws2\_32.dll C:\Windows\SysWOW64\winhttp.dll Opens: C:\Windows\SysWOW64\IPHLPAPI.DLL Opens: C:\Windows\SysWOW64\winnsi.dll Opens: C:\Windows\SysWOW64\mswsock.dll Opens: Opens: C:\Windows\SysWOW64\dnsapi.dll Opens: C:\Windows\SysWOW64\urlmon.dll Opens: C:\Windows\SysWOW64\rasadhlp.dll Opens: C:\Windows\SysWOW64\dhcpcsvc6.dll C:\Windows\SysWOW64\dhcpcsvc.dll Opens: Opens: C:\Windows\System32\Drivers\etc\hosts Opens: C:\Windows\SysWOW64\FWPUCLNT.DLL

Opens: C:\Windows\Temp\HandWalletUpdate.original
Opens: C:\windows\temp\HandWalletUpdate.info
Writes to: C:\Windows\Temp\HandWalletUpdate.original

Reads from: C:\Windows\Temp\00aca0729582792a46b971951043ff06.exe

Reads from: C:\Windows\System32\Drivers\etc\hosts
Reads from: C:\Windows\Temp\HandWalletUpdate.original

### **Network Events**

DNS query: www.handwallet.com

DNS response: handwallet.com ⇒ 198.71.157.117

Connects to: 198.71.157.117:80

Sends data to: 0.0.0.0:53

Sends data to: handwallet.com:80 (198.71.157.117)

Receives data from: 0.0.0.0:53

Receives data from: handwallet.com:80 (198.71.157.117)

### Windows Registry Events

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

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

settings\connections

Creates key: HKLM\system\currentcontrolset\services\tcpip\parameters
Creates key: HKCU\software\microsoft\windows\currentversion\internet

settings\zonemap\

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

settings[proxyserver]

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

settings[proxyoverride]

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

settings[autoconfigurl]

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

settings[autodetect]

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

settings\zonemap[proxybypass]

settings\zonemap[proxybypass]

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

settings\zonemap[intranetname]

Deletes value: HKLM\software\wow6432node\microsoft\windows\currentversion\internet

settings\zonemap[intranetname]

Opens key: HKLM\software\microsoft\wow64

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

 $HKLM \setminus software \setminus wow 6432 node \setminus policies \setminus microsoft \setminus windows \setminus safer \setminus code identifiers$ 

Opens key: HKLM\software\policies\microsoft\windows\safer\codeidentifiers
Opens key: HKCU\software\policies\microsoft\windows\safer\codeidentifiers
Opens key: HKLM\system\currentcontrolset\control\nls\customlocale
Opens key: HKLM\system\currentcontrolset\control\nls\language

Opens key: HKLM\system\currentcontrolset\control\mui\uilanguages
Opens key: HKLM\system\currentcontrolset\control\mui\uilanguages\en-us

Opens key: HKLM\system\currentcontrolset\control\mui\uilanguages\pendingdelete

Opens key: HKLM\software\wow6432node\policies\microsoft\mui\settings
Opens key: HKLM\software\policies\microsoft\mui\settings

Opens key: HKCU\

Opens key: HKCU\control panel\desktop\muicached\machinelanguageconfiguration
Opens key: HKLM\system\currentcontrolset\control\mui\settings\languageconfiguration

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

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HKCU\control panel\desktop\languageconfiguration
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settings\5.0\cache
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nt\currentversion\profilelist
                                                               HKLM\software\microsoft\windows nt\currentversion\profilelist
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settings
    Opens key:
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explorer\main\featurecontrol Opens key:

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

Opens key: HKLM\software\wow6432node\microsoft\internet

explorer\main\featurecontrol

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

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HKCU\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature http username password disable
 Opens kev:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_http_username_password_disable
 Opens kev:
                         HKCU\software\microsoft\internet
\verb|explorer\main\featurecontrol\retry_header on ly post\_on connection reset|\\
                         HKLM\software\wow6432node\microsoft\internet
 Opens key:
explorer\main\featurecontrol\retry_headeronlypost_onconnectionreset
 Opens key:
                         HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_mime_handling
                         HKLM\software\wow6432node\microsoft\internet
 Opens kev:
explorer\main\featurecontrol\feature_mime_handling
 Opens key:
                         HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_bypass_cache_for_credpolicy_kb936611
 Opens key:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_bypass_cache_for_credpolicy_kb936611
                         HKCU\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_ignore_mappings_for_credpolicy
 Opens key:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_ignore_mappings_for_credpolicy
 Opens key:
                         HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_include_port_in_spn_kb908209
 Opens kev:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_include_port_in_spn_kb908209
 Opens key:
                         HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature bufferbreaking 818408
                         HKLM\software\wow6432node\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_bufferbreaking_818408
                         HKCU\software\microsoft\internet
 Opens kev:
explorer\main\featurecontrol\feature_skip_post_retry_on_internetwritefile_kb895954
 Opens key:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_skip_post_retry_on_internetwritefile_kb895954
                         HKCU\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_fix_chunked_proxy_script_download_kb843289
                         HKLM\software\wow6432node\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\wow6432node\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_use_cname_for_spn_kb911149
                         HKCU\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_allow_long_international_filenames
                         HKLM\software\wow6432node\microsoft\internet
 Opens kev:
explorer\main\featurecontrol\feature_allow_long_international_filenames
                         HKCU\software\microsoft\internet
 Opens kev:
explorer\main\featurecontrol\feature_permit_cache_for_authenticated_ftp_kb910274
 Opens key:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_permit_cache_for_authenticated_ftp_kb910274
 Opens kev:
                         HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_disable_unicode_handle_closing_callback
                         HKLM\software\wow6432node\microsoft\internet
 Opens kev:
explorer\main\featurecontrol\feature disable unicode handle closing callback
 Opens key:
                         HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_disallow_null_in_response_headers
 Opens kev:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_disallow_null_in_response_headers
                         HKCU\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature digest no extras in uri
                         HKLM\software\wow6432node\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_digest_no_extras_in_uri
 Opens key:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_enable_passport_session_store_kb948608
                         HKCU\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_exclude_invalid_client_cert_kb929477
                         HKLM\software\wow6432node\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_exclude_invalid_client_cert_kb929477
 Opens key:
                         HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_use_utf8_for_basic_auth_kb967545
 Opens key:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_use_utf8_for_basic_auth_kb967545
 Opens key:
                         HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_return_failed_connect_content_kb942615
 Opens key:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_return_failed_connect_content_kb942615
 Opens key:
                         HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_preserve_spaces_in_filenames_kb952730
 Opens key:
                         HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_preserve_spaces_in_filenames_kb952730
 Opens key:
                         HKCU\software\microsoft\windows\currentversion\internet settings
 Opens key:
                         HKLM\software\wow6432node\policies
 Opens key:
                         HKCU\software\policies
```

HKCU\software

HKLM\software\wow6432node

Opens key: Opens key: Opens key: HKLM\software\wow6432node\policies\microsoft\internet explorer

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

Opens key: HKLM\software\wow6432node\policies\microsoft\internet explorer\main

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

Opens key: HKLM\software\wow6432node\microsoft\windows\currentversion\internet

settings

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

settings\5.0\cache

Opens key:

 $HKLM \ software \ wow 6432 node \ policies \ microsoft \ windows \ current version \ internet\ settings \ \ 5.0 \ cache$ 

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

settings\5.0\cache

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

settings\5.0\cache

Opens key: HKCU\software\microsoft\internet

explorer\main\featurecontrol\feature\_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\wow6432node\microsoft\internet

explorer\main\featurecontrol\feature\_compat\_use\_connection\_based\_negotiate\_auth\_kb2151543

Opens key: HKCU\software\microsoft\internet

explorer\main\featurecontrol\feature\_sch\_send\_aux\_record\_kb\_2618444
 Opens key: HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature\_sch\_send\_aux\_record\_kb\_2618444

Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters

Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\appid\_catalog

Opens key:

 $\label{local-control} \begin{tabular}{ll} HKLM\system\current controlset\services\winsock2\parameters\appid\catalog\1a6fc743 \end{tabular}$ 

Opens key:

 $\label{lem:hklm} \verb+kklm/system/currentcontrolset/services/winsock2\parameters/protocol\_catalog9$ 

Opens key:

 $HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \setminus parameters \setminus protocol\_catalog 9 \setminus 00000005$ 

Opens key:

Opens kev:

HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000001
Opens key:

HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\000000000007
Opens key:

HKLM\system\currentcontrolset\services\winsock2\parameters\protocol\_catalog9\catalog\_entries\00000000010
Opens kev:

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Opens key:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\00000014

Opens key:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries

Opens key:

HKLM\system\sy

Opens key: HKLM\system\currentcontrolset\services\winsock\parameters
Opens key: HKLM\system\currentcontrolset\services\tcpip\parameters\winsock
Opens key: HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock

Opens key: HKLM\system\currentcontrolset\services\winsock\setup migration\providers

Opens key: HKLM\system\currentcontrolset\services\winsock\setup

migration\providers\tcpip6

Opens key: HKLM\software\policies\microsoft\peerdist\service

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

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

Opens key: HKLM\system\currentcontrolset\services\dnscache\parameters Opens key: HKLM\software\wow6432node\policies\microsoft\windows nt\dnsclient Opens key: HKLM\software\policies\microsoft\windows nt\dnsclient HKLM\system\currentcontrolset\services\dns Opens key: Opens kev: HKLM\software\wow6432node\policies\microsoft\windows nt\dnsclient\dnspolicyconfig Opens key: HKLM\software\policies\microsoft\windows nt\dnsclient\dnspolicyconfig Opens kev: HKLM\system\currentcontrolset\services\dnscache\parameters\dnspolicyconfig Opens key: HKLM\software\wow6432node\microsoft\windows\currentversion\internet settings\winhttp Opens key: HKLM\system\currentcontrolset\services\winhttpautoproxysvc\parameters Opens key: Opens key: HKCU\software\microsoft\internet explorer\main\featurecontrol\feature\_ignore\_policies\_zonemap\_if\_esc\_enabled\_kb918915 Opens kev: HKLM\software\wow6432node\microsoft\internet explorer\main\featurecontrol\feature\_ignore\_policies\_zonemap\_if\_esc\_enabled\_kb918915 Opens key:  $HKLM \verb|\software| wow 6432 node \verb|\policies| microsoft| windows \verb|\currentversion| internet| and the software \verb|\currentversion| internet and the software and the$ settings\zonemap\domains\ Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet settings\zonemap\domains Opens key: HKCU\software\policies\microsoft\windows\currentversion\internet settings\zonemap\domains\ HKLM\zonemap\ranges\ Opens key: Opens key: HKCU\zonemap\ranges\ Opens key: HKCU\software\microsoft\internet explorer\main\featurecontrol\feature\_zones\_check\_zonemap\_policy\_kb941001 Opens key: HKLM\software\wow6432node\microsoft\internet explorer\main\featurecontrol\feature\_zones\_check\_zonemap\_policy\_kb941001 Opens key: Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet settings\zonemap Opens key:  $\label{lem:hkcu} \begin{tabular}{ll} HKCU \software \policies \microsoft \windows \current version \end{tabular} in termet \end{tabular}$ settings\zonemap HKLM\software\wow6432node\microsoft\windows\currentversion\internet Opens key: settings\zonemap\ HKCU\software\policies\microsoft\windows\currentversion\internet Opens key: settings\zonemap\ Opens key: HKLM\software\wow6432node\policies\microsoft\windows\currentversion\internet settings\zonemap\ HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\zonemap\ranges\ HKCU\software\microsoft\windows\currentversion\internet Opens key: settings\zonemap\protocoldefaults\ Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zonemap\domains\ Opens key: settings\zonemap\domains\ Opens key: HKLM\software\policies\microsoft\internet explorer\security Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\ Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\0 Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\1 Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\2 Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\3 Opens key: HKCU\software\microsoft\windows\currentversion\internet settings\zones\4 Opens key: HKLM\software\wow6432node\policies\microsoft\windows\currentversion\internet settings\zones\ Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet settings\zones  $\label{lem:hkcu} \begin{tabular}{ll} HKCU \software \policies \microsoft \windows \current version \end{tabular} in termet \end{tabular}$ Opens key: settings\zones\ Opens key: HKLM\software\wow6432node\policies\microsoft\windows\currentversion\internet settings\zones\0 Opens key: HKLM\software\policies\microsoft\windows\currentversion\internet settings\zones\0 Opens key:  $\label{lem:hkcu} \begin{tabular}{ll} HKCU \software \policies \microsoft \windows \current version \end{tabular} in termet \end{tabular}$ settings\zones\0 Opens key: HKLM\software\wow6432node\policies\microsoft\windows\currentversion\internet settings\zones\1 HKLM\software\policies\microsoft\windows\currentversion\internet Opens kev: settings\zones\1 Opens key:  $\label{lem:hkcu} \verb+KCU\software\policies\microsoft\windows\currentversion\currenters$ settings\zones\1 Opens key:  $\label{lem:hkcu} \mbox{\tt HKCU\software\mbox{\tt microsoft\windows\currentversion\linearing}} \mbox{\tt internet}$ settings\zonemap\ Opens kev: HKLM\software\wow6432node\policies\microsoft\windows\currentversion\internet settings\zones\2 Opens key:  $\label{lem:hklm} \verb+Kklm\+ software\+ policies\+ microsoft\+ windows\+ current version\+ internet$ 

Opens key:

settings\zones\2

 $\label{lem:hkcu} \begin{tabular}{ll} HKCU \software \policies \microsoft \windows \current version \end{tabular} in termet \end{tabular}$ 

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   Opens kev:
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   Opens key:
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settings\zones\3
   Opens key:
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settings\zones\3
   Opens key:
HKLM\software\wow6432node\policies\microsoft\windows\currentversion\internet settings\zones\4
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settings\zones\4
   Opens key:
                                                 HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_localmachine_lockdown
                                                 HKLM\software\wow6432node\microsoft\internet
   Opens key:
explorer\main\featurecontrol\feature_localmachine_lockdown
   Opens key:
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settings\lockdown_zones\
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  Opens kev:
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   Opens kev:
settings\lockdown_zones\2
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HKLM \setminus software \setminus wow 6432 node \setminus policies \setminus microsoft \setminus windows \setminus current version \setminus internet
settings\lockdown_zones\2
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                                                 HKLM\software\policies\microsoft\windows\currentversion\internet
settings\lockdown_zones\2
                                                 HKCU\software\policies\microsoft\windows\currentversion\internet
   Opens kev:
settings\lockdown_zones\2
   Opens key:
                                                 \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\lockdown_zones\3
   Opens key:
HKLM\software\wow6432node\policies\microsoft\windows\currentversion\internet
settings\lockdown_zones\3
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   Opens key:
settings\lockdown_zones\3
                                                 HKCU\software\policies\microsoft\windows\currentversion\internet
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settings\lockdown_zones\3
                                                 HKCU\software\microsoft\windows\currentversion\internet
   Opens key:
settings\lockdown zones\4
   Opens key:
HKLM \setminus software \setminus wow 6432 \\ node \setminus policies \setminus microsoft \setminus windows \setminus current \\ version \setminus internet
settings\lockdown_zones\4
   Opens key:
                                                 HKLM\software\policies\microsoft\windows\currentversion\internet
settings\lockdown_zones\4
                                                 HKCU\software\policies\microsoft\windows\currentversion\internet
   Opens kev:
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                                                 HKCU\software\microsoft\internet
   Opens key:
explorer\main\featurecontrol\feature allow reverse solidus in userinfo kb932562
   Opens key:
                                                 HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_allow_reverse_solidus_in_userinfo_kb932562
                                                 \label{lem:hkcu} \verb+KKCU\+ software\+ microsoft\+ windows\+ current version\+ internet
   Opens key:
settings\5.0\cache\content
   Opens key:
                                                  HKLM\software\wow6432node\policies\microsoft\windows\explorer
   Opens key:
                                                  HKLM\software\policies\microsoft\windows\explorer
   Opens key:
                                                  HKCU\software\policies\microsoft\windows\explorer
   Opens key:
```

HKLM\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\{f1b32785
6fba-4fcf-9d55-7b8e7f157091}

Opens key:

HKLM\software\www6432node\microsoft\windows\currentversion\explorer\folderdescriptions\{f1b32785-6fba-4fcf-9d55-7b8e7f157091}\propertybag

0e22-4760-9afe-ea3317b67173}

Opens kev:

0e22-4760-9afe-ea3317b67173}\propertybag

HKLM\software\wow6432node\microsoft\windows Opens key:

nt\currentversion\profilelist\s-1-5-21-1923240461-1905901954-2556564120-1001

Opens key:  $\label{lem:hklm} \mbox{ HKLM} \mbox{ hicrosoft} \mbox{ windows nt} \mbox{ currentversion} \mbox{ profilelist} \mbox{ s-1-5-21-1} \mbox{ of tware} \mbox{ windows nt} \mbox{ currentversion} \mbox{ profilelist} \mbox{ software} \mbox{ of tware} \mbox{ of tware}$ 

1923240461-1905901954-2556564120-1001

Opens key:

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

settings\5.0\cache\cookies

Opens key:

c0e9-4171-908e-08a611b84ff6}

c0e9-4171-908e-08a611b84ff6}\propertybag

65f9-4cf6-a03a-e3ef65729f3d}

Opens key:

65f9-4cf6-a03a-e3ef65729f3d}\propertybag

HKCU\software\microsoft\windows\currentversion\internet

settings\5.0\cache\history

Opens key:

b784-432e-a781-5a1130a75963}

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b784-432e-a781-5a1130a75963}\propertybag

HKLM\system\currentcontrolset\services\winsock\setup Opens key:

migration\providers\tcpip

HKLM\software\wow6432node\policies\microsoft\system\dnsclient Opens key:

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

Opens key:

HKLM\system\currentcontrolset\services\tcpip6\parameters\interfaces\{b5105d63-74c6-4dc1-87b7-55779daa70e9}

806e6f6e6963} Opens key:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces Opens kev:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{97e1de57-d6fa-11e1-be62-806e6f6e6963}

Opens key:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{a04231f6-42eb-4732-b850-25b8d56dd1d8}

Opens kev:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{4defd920-8095-41dc-aef5-8a6dc56e0da9}

Opens key:

55779daa70e9}

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

Opens key:

HKLM\software\wow6432node\microsoft\windows\currentversion\policies\explorer

HKLM\software\microsoft\windows\currentversion\policies\explorer Opens kev:  $\label{lem:hkcu} \verb+KKCU\+ software\+ microsoft\+ windows\+ current version\+ policies\+ explorer$ Opens key: Queries value: HKLM\system\currentcontrolset\control\terminal server[tsappcompat] Queries value: HKLM\system\currentcontrolset\control\terminal server[tsuserenabled]

Oueries value:

 $HKLM \ software \ policies \ microsoft \ windows \ safer \ code identifiers \ [transparentenabled]$ HKLM\system\currentcontrolset\control\nls\customlocale[empty] Oueries value:

Oueries value:

HKLM\system\currentcontrolset\control\nls\language[installlanguagefallback]

Oueries value: HKLM\system\currentcontrolset\control\mui\uilanguages\en-us[type]

Oueries value: HKLM\system\currentcontrolset\control\mui\uilanguages\en-

us[alternatecodepage]

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

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

Oueries value:

HKLM\software\wow6432node\microsoft\windows\currentversion\sidebyside[preferexternalmanifest]

Oueries value: HKLM\system\currentcontrolset\control\nls\sorting\versions[]

Queries value: HKCU\software\microsoft\windows

nt\currentversion\appcompatflags[showdebuginfo]

Queries value: HKLM\software\microsoft\windows nt\currentversion\image file execution options\dllnxoptions[usefilter]

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

options\dllnxoptions[00aca0729582792a46b971951043ff06.exe]

Queries value: HKLM\software\microsoft\windows

nt\currentversion\gre\_initialize[disablemetafiles]

Queries value: HKLM\software\wow6432node\microsoft\windows nt\currentversion\compatibility32[00aca0729582792a46b971951043ff06]
Queries value: HKLM\software\wow6432node\microsoft\windows

nt\currentversion\windows[loadappinit\_dlls]

Queries value: HKLM\system\currentcontrol\set\control\lsa\fipsalgorithmpolicy[enabled]

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

Queries value: HKLM\system\currentcontrolset\control\nls\customlocale[en-us] Queries value: HKLM\system\currentcontrolset\control\nls\extendedlocale[en-us]

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

Queries value: HKLM\software\wow6432node\microsoft\windows\windows error

reporting\wmr[disable]

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

 Queries value:
 HKLM\system\currentcontrol\set\control\nls\sorting\versions[000602xx]

 Queries value:
 HKLM\system\currentcontrol\set\control\nls\sorting\ids[en-us]

 Queries value:
 HKLM\system\currentcontrol\set\control\nls\sorting\ids[en]

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

Queries value:

Queries value: HKLM\system\setup[oobeinprogress]
Queries value: HKLM\system\setup[systemsetupinprogress]
Queries value: HKLM\software\microsoft\rpc[idletimerwindow]

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

settings[syncmode5]

Queries value: HKLM\software\wow6432node\microsoft\windows\currentversion\internet

settings\5.0\cache[sessionstarttimedefaultdeltasecs]

Queries value:

 $\label{local-hklm} HKLM\software\wow6432 node\microsoft\windows\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\explorer\folderdescriptions\currentversion\explorer\explo$ 

Oueries value:

Queries value:

 $\label{thm:local-base-4251-base-4251-base-6007} HKLM\software\wow6432\node\microsoft\windows\currentversion\explorer\folderdescriptions\folder{251-base-6007} and the software \currentversion\explorer\folder{251-base-6007} and the software\currentversion\explorer\folder{251-base-6007} and the software\currentversion\explorer\folder{251-base-6$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \ \{352481e8-33be-4251-ba85-6007 caed \ folder \$ 

Queries value:

 $\label{local-prop} HKLM\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\calebox{352481e8-33be-4251-ba85-6007caedcf9d}\[relative\path]$ 

Queries value:

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Queries value:

 $\label{local-prop} HKLM\software\wow6432 node\microsoft\windows\currentversion\explorer\folder descriptions\folder 435481e8-33be-4251-ba85-6007 caedcf9d\folder folder f$ 

Queries value:

 $\label{localized halos} HKLM \software \wow 6432 node \microsoft \windows \current version \explorer \folder descriptions \cite{252481e8-33be-4251-ba85-6007} \cite{2516ba95-6007} \cite{2516ba95-60$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm \color= \co$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{352481e8-33be-4251-ba85-6007 caed \ fgd \ [security]$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{352481e8-33be-4251-ba85-6007 caed \ fgd \ [stream resource]$ 

Queries value:

 $\label{thm:local-base-4251-base-4251-base-6007} HKLM\software\wow6432\node\microsoft\windows\currentversion\explorer\folderdescriptions\folderde$ 

Queries value:

 $HKLM \\ software \\ \\ wow 6432 \\ node \\ microsoft \\ \\ windows \\ \\ current \\ version \\ \\ explorer \\ \\ folder descriptions \\ \\ \{352481e8-33be-4251-ba85-6007 \\ caedcf9d \\ \\ [local redirectonly]$ 

Queries value:

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{352481e8-33be-4251-ba85-6007 caed \ fgd \ [precreate]$ 

Queries value:

 $\label{thm:local-bound} HKLM\software\wow6432 node\microsoft\windows\currentversion\explorer\folder descriptions\calebox{352481e8-33be-4251-ba85-6007} (stream)$ 

Queries value:

 $\label{thm:local_thm:loc$ 

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33be-4251-ba85-6007caedcf9d}[publishexpandedpath]
  Oueries value:
33be-4251-ba85-6007caedcf9d}[attributes]
  Oueries value:
33be-4251-ba85-6007caedcf9d}[foldertypeid]
  Oueries value:
33be-4251-ba85-6007caedcf9d}[initfolderhandler]
                                    HKU\.default\software\microsoft\windows\currentversion\explorer\user
  Oueries value:
shell folders[cache]
  Queries value:
                                     HKLM\software\microsoft\windows nt\currentversion\profilelist[default]
  Oueries value:
                                     HKCU\software\microsoft\windows\currentversion\explorer\user shell
folders[cache]
  Queries value:
                                     HKCU\software\policies\microsoft\windows\currentversion\internet
settings[mbcsapiforcrack]
  Queries value:
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settings[security_hklm_only]
                                    HKLM\software\wow6432node\microsoft\internet
  Queries value:
explorer\main\featurecontrol\feature_http_username_password_disable[00aca0729582792a46b971951043ff06.exe]
                                    HKLM\software\wow6432node\microsoft\internet
  Queries value:
explorer\main\featurecontrol\feature_http_username_password_disable[*]
                                    HKCU\software\microsoft\internet
  Queries value:
explorer\main\featurecontrol[feature_clientauthcertfilter]
  Queries value:
                                    HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol[feature_clientauthcertfilter]
                                    HKLM\software\wow6432node\microsoft\internet
  Queries value:
explorer\main\featurecontrol\feature_mime_handling[00aca0729582792a46b971951043ff06.exe]
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explorer\main\featurecontrol\feature_disable_unicode_handle_closing_callback[00aca0729582792a46b971951043ff06.exe]
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  Queries value:
explorer\main\featurecontrol\feature_disable_unicode_handle_closing_callback[*]
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  Queries value:
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  Queries value:
                                    HKLM\software\policies\microsoft\windows\currentversion\internet
settings[secureprotocols]
                                     HKCU\software\policies\microsoft\windows\currentversion\internet
  Queries value:
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settings[certificaterevocation]
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settings[disablekeepalive]
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settings[idnenabled]
  Queries value:
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settings[preconnectlimit]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[preresolvelimit]
  Queries value:
                                     \label{lem:hkcu} \verb+KKCU \software \microsoft \windows \current version \cite{thm:lem:hkcu} in terms to the lemma soft \cite{thm:lem:hkcu} and \cite{thm:lem:hkcu} are \cite{thm:lem:hkcu}.
settings[sqmhttpstreamrandomuploadpoolsize]
  Queries value:
                                     \label{lem:hkcu} \mbox{\tt HKCU\software\mbox{\tt microsoft\windows\currentversion\linearing}} \mbox{\tt internet}
settings[cachemode]
  Oueries value:
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settings[enablehttp1_1]
                                     HKCU\software\policies\microsoft\windows\currentversion\internet
  Queries value:
settings[enablehttp1_1]
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settings[enablehttp1_1]
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  Oueries value:
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  Oueries value:
settings[proxyhttp1.1]
  Queries value:
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settings[proxyhttp1.1]
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  Oueries value:
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                                     \label{lem:hkcu} \verb+KKCU\+ software\+ microsoft\+ windows\+ current version\+ internet
  Oueries value:
settings[disablebasicoverclearchannel]
  Queries value:
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settings[clientauthbuiltinui]
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  Oueries value:
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  Queries value:
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settings[displayscriptdownloadfailureui]
                                     HKCU\software\policies\microsoft\windows\currentversion\internet
  Queries value:
settings[mbcsservername]
                                     \label{lem:hkcu} \mbox{\tt HKCU\software\policies\mbox{\tt microsoft\windows\currentversion\linearing}} \mbox{\tt linearing\color=lem:hkcu} \mbox{\tt hkcu\software\policies\mbox{\tt microsoft\windows\currentversion\linearing}} \mbox{\tt linearing\color=lem:hkcu\soft\windows\currentversion\linearing}} \mbox{\tt linearing\color=lem:hkcu\soft\windows\currentversion\linearing}} \mbox{\tt linearing\color=lem:hkcu\soft\windows\currentversion\color=lem:hkcu\soft\windows\currentversion\color=lem:hkcu\soft\windows\currentversion\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu\soft\color=lem:hkcu
  Oueries value:
```

settings[utf8servernameres]

Oueries value: HKCU\software\microsoft\windows\currentversion\internet settings[disableworkerthreadhibernation] Oueries value: HKLM\software\wow6432node\microsoft\windows\currentversion\internet settings[disableworkerthreadhibernation] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings[disablereadrange] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings[socketsendbufferlength] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings[socketreceivebufferlength] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings[keepalivetimeout] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[maxhttpredirects] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[maxconnectionsperserver] HKI M\software\wow6432node\microsoft\windows\currentversion\internet Oueries value: settings[maxconnectionsperserver] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[maxconnectionsper1\_0server] HKLM\software\wow6432node\microsoft\windows\currentversion\internet Queries value: settings[maxconnectionsper1\_0server] Oueries value: HKCU\software\microsoft\windows\currentversion\internet settings[maxconnectionsperproxy] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[serverinfotimeout] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[connecttimeout] HKLM\software\wow6432node\microsoft\windows\currentversion\internet Oueries value: settings[connecttimeout] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings[connectretries] Queries value: settings[connectretries] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings[sendtimeout] HKLM\software\wow6432node\microsoft\windows\currentversion\internet Oueries value: settings[sendtimeout] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[receivetimeout] Queries value: HKLM\software\wow6432node\microsoft\windows\currentversion\internet settings[receivetimeout]  $\label{lem:hkcu} \verb+KKCU\+ software\+ microsoft\+ windows\+ current version\+ internet$ Oueries value: settings[disablentlmpreauth] Oueries value: HKCU\software\microsoft\windows\currentversion\internet 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\wow6432node\microsoft\windows\currentversion\internet Oueries value: settings\5.0\cache[scavengecachefilelimit] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings[httpdefaultexpirytimesecs] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings[ftpdefaultexpirytimesecs] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[disablecachingofsslpages] HKCU\software\microsoft\windows\currentversion\internet Queries value: settings[leashlegacvcookies] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings[dialupuselansettings] HKLM\software\wow6432node\microsoft\windows\currentversion\internet Queries value: settings[dialupuselansettings] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings[sendextracrlf] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings[wpadsearchalldomains] HKCU\software\microsoft\windows\currentversion\internet Oueries value: settings[bypasshttpnocachecheck] Queries value:  $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ internet$ settings[bypasshttpnocachecheck] Queries value: HKCU\software\microsoft\windows\currentversion\internet settings[bypasssslnocachecheck] HKLM\software\wow6432node\microsoft\windows\currentversion\internet Oueries value: settings[bypasssslnocachecheck] Queries value:  $HKLM \setminus software \setminus wow 6432 node \setminus microsoft \setminus windows \setminus current version \setminus internet$ 

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

settings[enablehttptrace]

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settings[nocheckautodialoverride]
                                 HKLM\software\wow6432node\microsoft\windows\currentversion\internet
  Oueries value:
settings[nocheckautodialoverride]
  Queries value:
                                 HKCU\software\microsoft\windows\currentversion\internet
settings[dontusednsloadbalancing]
  Queries value:
                                 settings[dontusednsloadbalancing]
  Oueries value:
                                HKLM\software\wow6432node\microsoft\windows\currentversion\internet
settings[sharecredswithwinhttp]
  Queries value:
                                 HKCU\software\microsoft\windows\currentversion\internet
settings[mimeexclusionlistforcache]
  Queries value:
                                 \label{lem:hkcu} \verb+KKCU \software \microsoft \windows \current version \cite{thm:lem:hkcu} in terms to the lemma substitution \cite{thm:lem:hkcu} and \cite{thm:lem:hkcu} are \cite{thm:lem:hkcu}.
settings[headerexclusionlistforcache]
  Oueries value:
                                 HKCU\software\microsoft\windows\currentversion\internet
settings[dnscacheenabled]
  Queries value:
                                 HKCU\software\microsoft\windows\currentversion\internet
settings[dnscacheentries]
  Queries value:
                                 HKCU\software\microsoft\windows\currentversion\internet
settings[dnscachetimeout]
                                 HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[warnonpost]
                                 HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[warnalwaysonpost]
  Queries value:
                                 HKCU\software\microsoft\windows\currentversion\internet
settings[warnonzonecrossing]
                                 HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[warnonbadcertrecving]
  Queries value:
                                 HKCU\software\microsoft\windows\currentversion\internet
settings[warnonpostredirect]
  Queries value:
                                 HKCU\software\microsoft\windows\currentversion\internet
settings[alwaysdrainonredirect]
                                HKCU\software\microsoft\windows\currentversion\internet
  Queries value:
settings[warnonhttpstohttpredirect]
                                 HKLM\software\wow6432node\microsoft\windows\currentversion\internet
  Queries value:
settings[tcpautotuning]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters[winsock_registry_version]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters[namespace_callout]
  Queries value:
HKLM\svstem\currentcontrolset\services\winsock2\parameters\protocol catalog9[next catalog entry id]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9[num_catalog_entries]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000002[packedcatalogitem]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000003[packedcatalogitem]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000004[packedcatalogitem]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000005[packedcatalogitem]
  Queries 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\00000000007[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]
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5[serial_access_num]
  Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5[num_catalog_entries]
  Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000001[librarypath]
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000001[displaystring]
  Queries value:
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\00000000001[supportednamespace]
  Oueries value:
Oueries value:
HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ no mespace\_catalog \ set alog\_entries \ (0000000000001 \ [version]) \ description \ (version) \ d
```

- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000001[storesserviceclassinfo]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000001[providerinfo]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\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\0000000000002[addressfamily]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\0000000000002[supportednamespace]
  Queries 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]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\0000000000002[storesserviceclassinfo]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000002[providerinfo] Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000003[librarypath]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000003[displaystring]
  Queries value:
- $HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ namespace\_catalog \ solves \ value:$
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000003[addressfamily]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000003[supportednamespace]

  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000003[enabled] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000003[version]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000003[storesserviceclassinfo]
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000003[providerinfo] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[librarypath]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[displaystring]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[providerid]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[addressfamily]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\0000000000004[supportednamespace]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000004[enabled]
  Queries value:
- $\label{lem:hklmsystem} HKLM \system \current controlset \services \winsock 2 \parameters \namespace\_catalog5 \catalog\_entries \000000000004 \[version] \queries \value:$
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[storesserviceclassinfo] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000004[providerinfo]
  Queries value:
- $HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ names pace\_catalog 5 \ catalog\_entries \ 0000000000005 [library path] \ Oueries \ value:$
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000005[displaystring]
  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000005[providerid]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000005[addressfamily]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000005[supportednamespace]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000005[enabled]
   Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000005[version]

  Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000005[storesserviceclassinfo] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\00000000005[providerinfo] Oueries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000006[librarypath]
  Queries value:
- HKLM\system\currentcontrolset\services\winsock2\parameters\namespace\_catalog5\catalog\_entries\000000000006[displaystring] Queries value:
- $\label{lem:hklmsystem} HKLM \system \current controlset \services \winsock 2 \parameters \namespace\_catalog \shape \current \shape \s$

```
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000006[addressfamily]
 Oueries value:
HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space\_catalog 5 \ (catalog\_entries \ 0000000000006 [supported name space]]
 Queries value:
HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap ameters \setminus names pace\_catalog \\ \setminus catalog\_entries \setminus 000000000000006[enabled]
 Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000006[version]
 Oueries value:
HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog_entries\00000000006[storesserviceclassinfo]
 Oueries value:
Queries value:
HKLM\system\currentcontrolset\services\winsock2\parameters[ws2_32numhandlebuckets]
 Oueries value:
                         HKLM\software\policies\microsoft\windows\currentversion\internet
settings[proxysettingsperuser]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[badproxyexpirestime]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[enableautodial]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[nonetautodial]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[globaluseroffline]
                         HKLM\software\wow6432node\microsoft\windows\currentversion\internet
 Queries value:
settings[disablebranchcache]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[usefirstavailable]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[combinefalsestartdata]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[disablefalsestartblacklist]
 Queries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[enforcep3pvalidity]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[migrateproxy]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[proxvenable]
 Queries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[proxyserver]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings[proxyoverride]
 Queries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[autoconfigurl]
 Queries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings[autodetect]
                         HKCU\software\microsoft\windows\currentversion\internet
 Queries value:
settings\connections[savedlegacysettings]
 Queries value:
                         HKCU\software\microsoft\windows\currentversion\internet
settings\connections[defaultconnectionsettings]
 Queries value:
                         HKLM\system\currentcontrolset\services\winsock\parameters[transports]
 Oueries value:
                         HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[mapping]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[mapping]
 Queries value:
                         HKLM\system\currentcontrolset\services\winsock\setup
migration\providers\tcpip6[winsock 2.0 provider id]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[minsockaddrlength]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[maxsockaddrlength]
HKLM\system\currentcontrolset\services\tcpip6\parameters\winsock[usedelayedacceptance]
 Oueries value:
                         HKLM\software\microsoft\windows
nt\currentversion\peerdist\service[enable]
                         HKLM\system\currentcontrolset\control\samservicelist[samservicelist]
 Oueries value:
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[queryadaptername]
 Queries value:
Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[usedomainnamedevolution]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[usedomainnamedevolution]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[domainnamedevolutionlevel]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[prioritizerecorddata]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[prioritizerecorddata]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[allowunqualifiedquery]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[allowunqualifiedquery]
```

```
HKLM\system\currentcontrolset\services\dnscache\parameters[appendtomultilabelname]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[screenbadtlds]
 Queries value:
Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[screendefaultservers]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[dynamicserverqueryorder]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[filterclusterip]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[waitfornameerroronall]
 Oueries value:
                      HKLM\system\currentcontrolset\services\dnscache\parameters[useedns]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[dnssecurenamequeryfallback]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[enabledaforallnetworks]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[directaccessqueryorder]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[queryipmatching]
                      \label{lem:hklm} \verb+Kklm \ system \ current control set \ \verb+services \ \verb+dnscache \ \verb+parameters [use hosts file] \\
 Oueries value:
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[addrconfigcontrol]
 Queries value:
Queries value:
Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[querynetbtfqdn]
 Queries value:
Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[udprecvbuffersize]
HKLM\system\currentcontrolset\services\dnscache\parameters[registrationenabled]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[disabledynamicupdate]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registeradaptername]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[enableadapterdomainnameregistration]
 Queries value:
HKLM \ system \ current control set \ services \ dns cache \ parameters \ [register reverse lookup]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[disablereverseaddressregistrations]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registerwanadapters]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[disablewandynamicupdate]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registrationttl]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[defaultregistrationttl]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registrationrefreshinterval]
HKLM\system\currentcontrolset\services\tcpip\parameters[defaultregistrationrefreshinterval]
 Oueries value:
Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[maxnumberofaddressestoregister]
HKLM\system\currentcontrolset\services\dnscache\parameters[updatesecuritylevel]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[updatesecuritylevel]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[updatetopleveldomainzones]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[downcasespncauseapiowneristoolazy]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[registrationoverwrite]
 Oueries value:
                      HKLM\svstem\currentcontrolset\services\dnscache\parameters[maxcachesize]
 Queries value:
                      HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachettl]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[maxnegativecachettl]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[adaptertimeoutlimit]
 Oueries value:
```

```
Oueries value:
HKLM\svstem\currentcontrolset\services\dnscache\parameters[maxcachedsockets]
  Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[enablemulticast]
  Oueries value:
Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[multicastsenderflags]
  Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[multicastsendermaxtimeout]
                                     HKLM\system\currentcontrolset\services\dnscache\parameters[dnstest]
  Oueries value:
  Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[usecompartments]
  Oueries 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]
  Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[newdhcpsrvregistration]
  Queries value:
Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[disableidnencoding]
  Queries value:
HKLM \setminus system \setminus current control set \setminus services \setminus dns cache \setminus parameters [enable idnmapping]
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]
HKLM\svstem\currentcontrolset\services\tcpip\parameters[dnsquickquervtimeouts]
  Oueries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings[autoproxydetecttype]
                                     HKLM\software\wow6432node\microsoft\windows\currentversion\internet
  Queries value:
settings\winhttp[disablebranchcache]
  Queries value:
HKLM\system\currentcontrolset\services\winhttpautoproxysyc\parameters[proxydllfile]
  Queries value:
                                     HKLM\software\wow6432node\microsoft\windows\currentversion\internet
settings[winhttplowercasehost]
                                     HKLM\software\policies\microsoft\internet
  Queries value:
explorer\security[disablesecuritysettingscheck]
  Queries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings\zones\0[flags]
  Queries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings\zones\1[flags]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings\zones\2[flags]
  Queries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings\zones\3[flags]
  Queries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings\zones\4[flags]
                                     HKCU\software\microsoft\internet
  Oueries value:
explorer\main\featurecontrol\feature_localmachine_lockdown[00aca0729582792a46b971951043ff06.exe]
                                     HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_localmachine_lockdown[*]
  Queries value:
                                     HKLM\software\wow6432node\microsoft\internet
explorer\main\featurecontrol\feature_localmachine_lockdown[00aca0729582792a46b971951043ff06.exe]
                                     HKLM\software\wow6432node\microsoft\internet
  Oueries value:
explorer\main\featurecontrol\feature_localmachine_lockdown[*]
  Oueries value:
                                     HKLM\software\policies\microsoft\windows\currentversion\internet
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{t
settings[createuricachesize]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings[createuricachesize]
                                     HKLM\software\wow6432node\microsoft\windows\currentversion\internet
  Oueries value:
settings[createuricachesize]
  Queries value:
                                     HKLM\software\policies\microsoft\windows\currentversion\internet
settings[enablepunycode]
                                     HKCU\software\policies\microsoft\windows\currentversion\internet
  Oueries value:
settings[enablepunycode]
  Oueries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings[enablepunycode]
  Queries value:
                                     HKCU\software\microsoft\windows\currentversion\internet
settings\zonemap[autodetect]
                                     HKCU\software\microsoft\windows\currentversion\internet
  Oueries value:
settings\zones\3[1a10]
```

 $\label{lem:hklmsoftwarewow6432node} Hklm \color= \co$ 

Oueries value

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} [name]$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} \ [parent folder]$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} [description]$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} [relative path]$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} \ [parsing name]$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ icrosoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} [infotip]$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm \color= \co$ 

Queries value:

 $\label{thm:local-ham} $$HKLM\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\{f1b32785-6fba-4fcf-9d55-7b8e7f157091\}\[icon]$$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm \color= \co$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} [stream resource]$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm \color= \co$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} \ [local redirectonly]$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} \ [roamable]$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm \color= \co$ 

Queries value:

 $\label{thm:local-substitution} HKLM \software \wow 6432 node \microsoft \windows \current version \explorer \folder descriptions \fib 32785-66ba-4fcf-9d55-7b8e7f157091 \[ \mbox{stream} \]$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} [publish expanded path]$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{f1b32785-6fba-4fcf-9d55-7b8e7f157091\} [attributes]$ 

Queries value:

Queries value:

 $\label{lem:hkkm} HKLM\software\wow6432 node\microsoft\windows\currentversion\explorer\folderdescriptions\fifthed folder handler]$ 

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

folders[local appdata]

Queries value:

 $\label{thm:local-software-wow6432} HKLM\software\wow6432 node\microsoft\windows\currentversion\explorer\folderdescriptions\fo$ 

Queries value:

 $\label{linear_ham} HKLM software \wow 6432 node \microsoft \windows \current version \explorer \folder descriptions \folder \folder$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\fo$ 

Queries value

 $\label{thm:local-problem} HKLM\software\wow6432 node\microsoft\windows\currentversion\explorer\folderdescriptions\folderdescriptions\folderdescription \end{figure} \\ 0e22-4760-9afe-ea3317b67173\folderdescription\folderdescript$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\fo$ 

Queries value

 $\label{thm:local-software-wow6432} HKLM\software\wow6432 node\microsoft\windows\currentversion\explorer\folderdescriptions\fo$ 

Queries value:

 $\label{lem:hklm} HKLM\software\wow6432 node\microsoft\windows\currentversion\explorer\folderdescriptions\f$ 

 $\label{lem:hklmsoftwarewow6432node} Hklm\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\fo$ 

Oueries value

 $\label{lem:hklmsoftwarewow6432node} Hklm\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\fo$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{5e6c858f-0e22-4760-9afe-ea3317b67173\} [security]$ 

Oueries value:

 $\label{lem:hklmsoftwarewow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\folderdesc$ 

Oueries value:

 $\label{local-bound} HKLM\software\wow6432 node\microsoft\windows\currentversion\explorer\folderdescriptions\{5e6c858f-0e22-4760-9afe-ea3317b67173\}[streamresourcetype]}$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{5e6c858f-0e22-4760-9afe-ea3317b67173\} \ [local redirectionly]$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\fo$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{5e6c858f-0e22-4760-9afe-ea3317b67173\} \ [precreate]$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\fo$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm \end{array} In the constant of the$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\fo$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{5e6c858f-0e22-4760-9afe-ea3317b67173\} \ [folder type id]$ 

Oueries value:

 $\label{local-bound} HKLM \software \wow 6432 node \windows \current version \explorer \folder descriptions \folder \$ 

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

settings\5.0\cache\content[cachelimit]

Queries value:

 $\label{lem:hklmsoftwarewow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\cdot$ 

Queries value:

 $\label{thm:local-hamman} HKLM \software \wow 6432 node \microsoft \windows \current version \explorer \folder descriptions \current version \explorer \folder descriptions \current \$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\cdot$ 

Queries value:

 $\label{thm:local-bound} HKLM\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\cdots\c$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\}[relative path]$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm \color= \co$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \ \ \ \ coe9-4171-908e-08a611b84ff6 \ [infotip]$ 

Queries value:

 $\label{localized} HKLM\software\wow6432 node\microsoft\windows\currentversion\explorer\folderdescriptions\cdots\$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \ \ \ coe9-4171-908e-08a611b84ff6 \ [icon]$ 

Queries value:

 $\label{thm:local-bound} HKLM\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\coe9-4171-908e-08a611b84ff6\[security\]$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescriptions\currentversion\explorer\folderdescription\exp$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\cdot{2b0f765d-c0e9-4171-908e-08a611b84ff6}[streamresourcetype]$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ icrosoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\} \ [local redirectonly]$ 

Queries value:

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\} [precreate]$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\}[stream]$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\} \ [publish \ expanded path]$ 

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\} [attributes]$ 

Queries value:

HKLM\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\{2b0f765d-c0e9-4171-908e-08a611b84ff6}\[foldertypeid]

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{2b0f765d-c0e9-4171-908e-08a611b84ff6\} \ [initfolder \ handler]$ 

Queries value:

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

folders[cookies]

Oueries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\fo$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} [name]$ 

Oueries value:

HKLM\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6-a03a-e3ef65729f3d}[parentfolder]

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [description]$ 

Queries value:

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [parsing name]$ 

Oueries value:

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\}[localized name]$ 

Queries value:

Queries value:

 $\label{lem:hklmsoftwarewow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\}[security]}$ 

Queries value:

 $\label{lem:hklmsoftware} HKLM \software \wow 6432 node \mbox{$3eb685db-65f9-4cf6-a03a-e3ef65729f3d} [stream resource]$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\}[stream resource type]$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node} Hklm \end{area} Hklm \en$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [roamable]$ 

Queries value:

 $\label{lem:hklmsoftwarewow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\calebox{3eb685db-65f9-4cf6-a03a-e3ef65729f3d}[precreate]$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [stream]$ 

Queries value:

 $\label{lem:hklm} HKLM\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\}[publishexpandedpath]}$ 

Queries value:

 $\label{thm:condition} HKLM \software \wow 6432 node \microsoft \windows \current version \explorer \folder descriptions \folder \fol$ 

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ \ explorer \ folder descriptions \ \ \{3eb685db-65f9-4cf6-a03a-e3ef65729f3d\} \ [folder type id]$ 

Queries value:

HKLM\software\wow6432node\microsoft\windows\currentversion\explorer\folderdescriptions\{3eb685db-65f9-4cf6-a03a-e3ef65729f3d}[initfolderhandler]

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

folders[appdata]

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

settings\5.0\cache\cookies[cachelimit]

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \ \{d9dc8a3b-der \ der \$ b784-432e-a781-5a1130a75963}[category]

Oueries value:

b784-432e-a781-5a1130a75963}[name]

Oueries value:

 $HKLM \setminus software \setminus wow 6432 \\ node \setminus microsoft \setminus windows \setminus current \\ version \setminus explorer \setminus folder \\ descriptions \setminus \{d9dc8a3b-derivation\} \\ description \setminus \{d9dc8ab-derivation\} \\ d$ b784-432e-a781-5a1130a75963}[parentfolder]

Oueries value:

b784-432e-a781-5a1130a75963}[description]

Oueries value:

b784-432e-a781-5a1130a75963}[relativepath]

Oueries value:

b784-432e-a781-5a1130a75963}[parsingname]

Queries value:

b784-432e-a781-5a1130a75963}[infotip]

Queries value:

b784-432e-a781-5a1130a75963}[localizedname]

Queries value:

b784-432e-a781-5a1130a75963}[icon]

Oueries value:

b784-432e-a781-5a1130a75963}[security]

Queries value:

b784-432e-a781-5a1130a75963}[streamresource]

Oueries value:

b784-432e-a781-5a1130a75963}[streamresourcetype]

Queries value:

b784-432e-a781-5a1130a75963}[localredirectonly]

Oueries value:

b784-432e-a781-5a1130a75963}[roamable]

Queries value:

b784-432e-a781-5a1130a75963}[precreate]

Oueries value:

b784-432e-a781-5a1130a75963}[stream]

Oueries value:

b784-432e-a781-5a1130a75963}[publishexpandedpath]

Oueries value:

b784-432e-a781-5a1130a75963}[attributes]

Oueries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ f$ b784-432e-a781-5a1130a75963}[foldertypeid]

Queries value:

 $HKLM \ software \ wow 6432 node \ microsoft \ windows \ current version \ explorer \ folder descriptions \ \{d9dc8a3b-descriptions\} \ d9dc8a3b-descriptions \ d9dc8a3b-descri$ b784-432e-a781-5a1130a75963}[initfolderhandler]

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

folders[history]

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

settings\5.0\cache\history[cachelimit]

Queries value: HKU\.default\software\microsoft\windows\currentversion\explorer\user

shell folders[local appdata]

HKLM\svstem\currentcontrolset\services\winsock\setup Oueries value:

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]

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

Oueries value: HKLM\system\currentcontrolset\services\winsock2\parameters[autodialdll]

Queries value:

 $HKLM \ system \ current control set \ services \ tcpip \ harameters \ interfaces \ \{b5105d63-74c6-4dc1-87b7-40c1-8$ 55779daa70e9}[searchlist]

 $HKLM \ system \ current control set \ services \ tcpip \ parameters \ interfaces \ \{97e1de57-d6fa-11e1-be62-806e6f6e6963\} \ fenabled \ hcp1$ 

Oueries value

Queries value:

Queries value:

Queries value:

 $\label{lem:hklmsystem} HKLM \system \current control set \services \tcpip \parameters \ \terfaces \ \b5105d63-74c6-4dc1-87b7-55779 \daa70e9 \[ \dhcpdomain \]$ 

Queries value:

HKLM\system\currentcontrolset\services\tcpip6\parameters\interfaces\{b5105d63-74c6-4dc1-87b7-55779daa70e9}[dhcpv6domain]

Queries value:

 $HKLM \ system \ current control set \ services \ tcpip6 \ parameters \ interfaces \ \{b5105d63-74c6-4dc1-87b7-55779daa70e9\} \ [nameserver]$ 

Queries value:

Queries value:

 $\label{lem:hklmsystem} HKLM \system \current control set \services \tcpip \parameters \time faces \b5105d63-74c6-4dc1-87b7-55779 \parameters \parame$ 

Queries value:

 $\label{thm:local-be} HKLM \system \current controls et \services \tcpip \parameters \ interfaces \ \{97e1de57-d6fa-11e1-be62-806e6f6e6963\} \ [registration enabled]$ 

Queries value:

Queries value:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{97e1de57-d6fa-11e1-be62-806e6f6e6963}[domain]

Queries value:

Queries value:

Queries value:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{97e1de57-d6fa-11e1-be62-806e6f6e6963}[dhcpnameserver]

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

Queries value:

 $\label{lem:hklm} HKLM \ system \ current controls et \ services \ tcpip \ parameters \ interfaces \ \{b5105d63-74c6-4dc1-87b7-55779daa70e9\} \ [query adapter name]$ 

Queries value:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{b5105d63-74c6-4dc1-87b7-55779daa70e9}[disableadapterdomainname]

Queries value:

Queries value:

HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{b5105d63-74c6-4dc1-87b7-55779daa70e9}[maxnumberofaddressestoregister]

Queries value:

 $\label{lem:hklm} HKLM \ system \ current controls et \ services \ tcpip \ parameters \ interfaces \ \{b5105d63-74c6-4dc1-87b7-55779daa70e9\} \ [enablemulticast]$ 

Oueries value:

 $HKLM \ system \ current control set \ services \ tcpip \ parameters \ interfaces \ \{97e1de57-d6fa-11e1-be62-806e6f6e6963\} \ [queryadaptername]$ 

Queries value:

 $\label{thm:main} HKLM \system \current controls et services \tcpip \parameters \ interfaces \ \{97e1de57-d6fa-11e1-be62-806e6f6e6963\} \ [disable adapter domain name]$ 

Queries value:

 $HKLM \ system \ current control set \ services \ tcpip \ parameters \ interfaces \ \{97e1de57-d6fa-11e1-be62-806e6f6e6963\} \ [disable dynamic update]$ 

Queries value:

 $HKLM \ system \ current control set \ services \ tcpip \ parameters \ interfaces \ \{97e1de57-d6fa-11e1-be62-806e6f6e6963\} \ [enable adapter domain name registration]$ 

Queries value:

Queries value:

 $HKLM \ system \ `current control set \ 'services \ 'tcpip \ parameters \ 'interfaces \ '\{97e1de57-d6fa-11e1-be62-806e6f6e6963\} \ [maxnumber of addresses to register]$ 

Queries value:

 $HKLM \ system \ current controls et \ services \ tcpip \ parameters \ interfaces \ \{97e1de57-d6fa-11e1-be62-806e6f6e6963\} \ [enablemulticast]$ 

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

 $HKLM \verb| software \verb| microsoft \verb| windows \verb| current version \verb| policies \verb| explorer[turnoff spianimations]| \\$ 

 $\label{thm:condition} \mbox{\currentversion\internet} \mbox{\currentversion\internet}$ 

settings[proxyenable]

 $\label{thm:constraint} Value\ changes: \\ HKCU \ software \ microsoft \ windows \ current version \ internet$ 

 ${\tt settings \backslash connections [savedlegacy settings]}$ 

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

settings\zonemap[uncasintranet]

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

settings\zonemap[autodetect]

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

settings\5.0\cache\content[cacheprefix]

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

settings\5.0\cache\cookies[cacheprefix]

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

settings\5.0\cache\history[cacheprefix]