Malware Analysis Appliance by Blue Coat Systems, Inc.

Task Details

Host: mag2, Sample ID: 161, Task ID: 643

Task ID: 643 Risk Level:

Date Processed: 2016-04-28 13:04:49 (UTC)

Processing Time: 61.09 seconds Virtual Environment: IntelliVM

Execution Arguments: "c:\windows\temp\6282b1723f3a4b0054d80aeb27c8fed5.exe"

Sample ID: Type: basic admin Owner:

6282b1723f3a4b0054d80aeb27c8fed5 Label:

2016-04-28 12:45:06 (UTC) Date Added:

PE32:win32:gui File Type: File Size: 813216 bytes

6282b1723f3a4b0054d80aeb27c8fed5 MD5:

63e6e2e578871b03c530a3a5d3ddd22e6a00bf9de6f167ceeb5908d5c9c56c8e SHA256:

Description: None

Pattern Matching Results

2 PE: Nonstandard section

5 Packer: UPX

5 PE: Contains compressed section

4 Checks whether debugger is present

Static Events

PE: Contains a virtual section Anomaly:

Anomaly: PE: Contains one or more non-standard sections

Packer:

Process/Thread Events

C:\WINDOWS\Temp\6282b1723f3a4b0054d80aeb27c8fed5.exe Creates process:

["c:\windows\temp\6282b1723f3a4b0054d80aeb27c8fed5.exe"]

Named Object Events

Creates mutex: \BaseNamedObjects\CTF.LBES.MutexDefaultS-1-5-21-1757981266-507921405-

1957994488-1003

Creates mutex: \BaseNamedObjects\CTF.Compart.MutexDefaultS-1-5-21-1757981266-507921405-

1957994488-1003

Creates mutex: \BaseNamedObjects\CTF.Asm.MutexDefaultS-1-5-21-1757981266-507921405-

1957994488-1003

\BaseNamedObjects\CTF.Layouts.MutexDefaultS-1-5-21-1757981266-507921405-Creates mutex: 1957994488-1003

\BaseNamedObjects\CTF.TMD.MutexDefaultS-1-5-21-1757981266-507921405-

Creates mutex:

1957994488-1003

Creates mutex:

\BaseNamedObjects\CTF.TimListCache.FMPDefaultS-1-5-21-1757981266-507921405-1957994488-1003MUTEX.DefaultS-1-5-21-1757981266-507921405-1957994488-1003

\BaseNamedObjects\shell.{A48F1A32-A340-11D1-BC6B-00A0C90312E1} Creates semaphore:

Creates semaphore: \BaseNamedObjects\shell.{210A4BA0-3AEA-1069-A2D9-08002B30309D} File System Events

Creates C:\Documents and Settings\All Users\Application Data\ZebraNetworkSystems

Creates: C:\Documents and Settings\All Users\Application

Data\ZebraNetworkSystems\NeoRouter

C:\Documents and Settings\Admin\Application Data\ZebraNetworkSystems Creates

C:\Documents and Settings\Admin\Application Creates:

Data\ZebraNetworkSystems\NeoRouter

Creates

AE06-4A1DA4BEC313}

C:\Documents and Settings\Admin\Local Settings\Temp\Tmp1.tmp Creates: Opens: C:\WINDOWS\Prefetch\6282B1723F3A4B0054D80AEB27C8F-2D7629E3.pf

C:\Documents and Settings\Admin Opens:

Opens: C:\WINDOWS\WinSxS\x86_Microsoft.Windows.Common-

Controls_6595b64144ccf1df_6.0.2600.5512_x-ww_35d4ce83

C:\WINDOWS\WinSxS\x86_Microsoft.Windows.Common-Opens:

Controls_6595b64144ccf1df_6.0.2600.5512_x-ww_35d4ce83\comctl32.dll

C:\WINDOWS\system32\crypt32.dll Opens: C:\WINDOWS\system32\msasn1.dll Opens: Opens: C:\WINDOWS\system32\winspool.drv C:\WINDOWS\system32\wsock32.dll Opens: C:\WINDOWS\system32\ws2_32.dll Opens: Opens: C:\WINDOWS\system32\ws2help.dll C:\WINDOWS\system32\imm32.dll Opens: C:\WINDOWS\WindowsShell.Manifest Opens: Opens: C:\WINDOWS\WindowsShell.Config

C:\WINDOWS\system32\shell32.dll Opens:

C:\WINDOWS\system32\SHELL32.dll.124.Manifest Opens: Opens: C:\WINDOWS\system32\SHELL32.dll.124.Config Opens: C:\WINDOWS\system32\urlmon.dll.123.Manifest Opens: C:\WINDOWS\system32\urlmon.dll.123.Config Opens: C:\WINDOWS\system32\WININET.dll.123.Manifest C:\WINDOWS\system32\WININET.dll.123.Config Opens:

C:\windows\temp\6282b1723f3a4b0054d80aeb27c8fed5.exe.2.Manifest Opens: Opens: C:\windows\temp\6282b1723f3a4b0054d80aeb27c8fed5.exe.3.Manifest C:\windows\temp\6282b1723f3a4b0054d80aeb27c8fed5.exe.Manifest Opens: Opens: C:\windows\temp\6282b1723f3a4b0054d80aeb27c8fed5.exe.Config

Opens: C:\windows\temp\Log.ini

Opens: C:\Documents and Settings\All Users\Application

Data\ZebraNetworkSystems\NeoRouter\Log.ini

C:\windows\temp\6282b1723f3a4b0054d80aeb27c8fed5.exe.1000.Manifest Opens:

Opens: C:\dev\

Opens: C:\WINDOWS\system32\netapi32.dll Opens: C:\WINDOWS\system32\rsaenh.dll Opens: C:\usr\local\ssl\cert.pem ${\tt C:\WINDOWS\system32\mswsock.dll}$ Opens: Opens: C:\WINDOWS\system32\dnsapi.dll Opens: C:\WINDOWS\system32\iphlpapi.dll C:\WINDOWS\system32\drivers\etc\hosts Opens: Opens: C:\WINDOWS\system32\hnetcfg.dll Opens: C:\WINDOWS\system32\wshtcpip.dll Opens: C:\WINDOWS\system32\rasadhlp.dll Opens: C:\WINDOWS\system32\MSCTF.dll Opens: C:\WINDOWS\system32\MSCTFIME.IME C:\WINDOWS\system32\uxtheme.dll Opens: Reads from: C:\WINDOWS\system32\rsaenh.dll

Network Events

DNS query: secure.neorouter.com

Sends data to: 8.8.8.8:53

Windows Registry Events

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

C:\WINDOWS\system32\drivers\etc\hosts

folders

Reads from:

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

folders

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

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

options\6282b1723f3a4b0054d80aeb27c8fed5.exe

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

Opens key: HKLM\system\currentcontrolset\control\safeboot\option

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

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

options\secur32.dll

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

HKLM\software\microsoft\windows nt\currentversion\image file execution

options\rpcrt4.dll Opens kev:

options\advapi32.dll

Opens key:

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

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

options\msvcrt.dll

Opens key:

HKLM\software\microsoft\windows nt\currentversion\image file execution options\user32.dll

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

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

options\imm32.dll

HKLM\software\microsoft\windows nt\currentversion\image file execution Opens kev: options\ntdll.dll

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution options\kernel32.dll

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

options\gdi32.dll Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\shlwapi.dll Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\comctl32.dll Opens key: $\label{lem:hklm} \verb+Kklm/software/microsoft/windows nt/currentversion/image file execution$

options\shell32.dll

Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution options\comdlg32.dll

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

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HKLM\software\microsoft\windows nt\currentversion\image file execution
 Opens kev:
options\crypt32.dll
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\image file execution
options\ole32.dll
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\image file execution
options\oleaut32.dll
                           HKLM\software\microsoft\windows nt\currentversion\image file execution
 Opens key:
options\normaliz.dll
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\image file execution
options\iertutil.dll
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\image file execution
options\urlmon.dll
                           HKLM\software\microsoft\windows nt\currentversion\image file execution
 Opens key:
options\wininet.dll
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\image file execution
options\winspool.drv
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\image file execution
options\ws2help.dll
                           HKLM\software\microsoft\windows nt\currentversion\image file execution
 Opens key:
options\ws2_32.dll
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\image file execution
options\wsock32.dll
  Opens key:
                           HKLM\system\currentcontrolset\control\error message instrument\
  Opens key:
                           HKLM\system\currentcontrolset\control\error message instrument
                           \label{lem:hklm} \verb+Kklm\+ software\+ microsoft\+ windows nt\+ current version\+ gre\_initialize
  Opens key:
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\compatibility32
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\ime compatibility
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\windows
  Opens key:
                           HKLM\software\microsoft\windows\currentversion\explorer\performance
  Opens key:
                           HKCU\
                           HKCU\software\policies\microsoft\control panel\desktop
  Opens key:
  Opens key:
                           HKCU\control panel\desktop
  Opens key:
                           HKCU\software\microsoft\windows\currentversion\explorer\advanced
  Opens key:
                           HKLM\software\microsoft\windows nt\currentversion\languagepack
  Opens key:
                           HKLM\system\setup
  Opens key:
                           HKLM\system\currentcontrolset\services\crypt32\performance
                           \label{thm:local_hammon_hammon} \begin{tabular}{ll} HKLM \begin{tabular}{ll} software \mbox{$\mathsf{m}$icrosoft} \mbox{$\mathsf{w}$indows} & nt \mbox{$\mathsf{currentversion}$} \mbox{$\mathsf{m}$sasn1} \end{tabular}
  Opens key:
  Opens key:
                           HKLM\software\microsoft\ole
  Opens key:
                           HKCR\interface
                           HKCR\interface\{00020400-0000-0000-c000-00000000046}
  Opens key:
  Opens key:
                           HKLM\software\microsoft\oleaut
                           HKLM\software\microsoft\oleaut\userera
  Opens kev:
  Opens key:
                           HKCU\software\classes\
  Opens key:
                           HKCU\software\classes\protocols\name-space handler\
  Opens key:
                           HKCR\protocols\name-space handler
  Opens key:
                           HKCU\software\classes\protocols\name-space handler
  Opens key:
                           \label{lem:hkcu} \begin{tabular}{ll} HKCU \software \policies \microsoft \windows \current version \end{tabular} in termet \end{tabular}
settings
  Opens key:
                           HKLM\software\microsoft\windows\currentversion\internet settings
                           HKLM\software\policies\microsoft\windows\currentversion\internet
  Opens key:
settings
                           HKCU\software\microsoft\internet
  Opens key:
explorer\main\featurecontrol\feature_protocol_lockdown
                           HKLM\software\microsoft\internet
 Opens key:
explorer\main\featurecontrol\feature_protocol_lockdown
                           HKLM\software\policies\microsoft\windows\currentversion\internet
  Opens key:
settings\
                           HKLM\software\policies\microsoft\internet explorer\main\featurecontrol
  Opens key:
  Opens key:
                           HKCU\software\policies\microsoft\internet explorer\main\featurecontrol
  Opens key:
                           HKLM\software\microsoft\internet explorer\main\featurecontrol
  Opens key:
                           \label{lem:hkcu} \mbox{\sc HKCU\software\mbox{\sc microsoft\internet explorer\mbox{\sc main\feature} control} \\
                           HKCU\software\microsoft\internet
  Opens key:
explorer\main\featurecontrol\feature_ignore_policies_zonemap_if_esc_enabled_kb918915
  Opens key:
                           HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_ignore_policies_zonemap_if_esc_enabled_kb918915
 Opens key:
                           HKLM\software\policies\microsoft\windows\currentversion\internet
settings\zonemap\domains\
 Opens key:
                           \label{lem:hkcu} \mbox{\tt HKCU\software\policies\mbox{\tt microsoft\windows\currentversion\internet}}
settings\zonemap\domains\
  Opens key:
                           HKLM\software\policies\microsoft\windows\currentversion\internet
settings\zonemap\ranges\
                           HKCU\software\policies\microsoft\windows\currentversion\internet
 Opens key:
settings\zonemap\ranges\
  Opens key:
                           HKCU\software\microsoft\internet
explorer\main\featurecontrol\feature_unc_savedfilecheck
  Opens key:
                           HKLM\software\microsoft\internet
explorer\main\featurecontrol\feature_unc_savedfilecheck
                           HKLM\system\currentcontrolset\control\wmi\security
  Opens key:
  Opens key:
                           HKLM\system\currentcontrolset\services\winsock2\parameters
  Opens key:
HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9
```

options\msasn1.dll

Opens key:

Opens key: $HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap col_catalog 9 \setminus catalog_entries$ Opens key: $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ protocol_catalog \ (catalog_entries \ 0000000000001) \ (catalog_entries \ (catalog \ (catalog_entries \ (catalog \ (cata$ Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000000 Opens key: $HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap col_catalog \\ \setminus catalog \\ \setminus$ Opens key: Opens key: Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000006 Opens key: Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\0000000000008 Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000009 Opens key: Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000011 Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5 Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\00000004 Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000001 Opens key: HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000000 HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000003 HKCU\software\microsoft\windows\currentversion\policies\explorer Opens key: Opens key: HKCU\software\microsoft\windows\currentversion\policies\network Opens key: HKCU\software\microsoft\windows\currentversion\policies\comdlg32 Opens key: HKLM\system\currentcontrolset\control\computername Opens key: Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution options\netapi32.dll Opens key: HKLM\software\microsoft\rpc\pagedbuffers Opens key: HKLM\software\microsoft\rpc Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution options\6282b1723f3a4b0054d80aeb27c8fed5.exe\rpcthreadpoolthrottle Opens kev: HKLM\software\policies\microsoft\windows nt\rpc Opens key: HKCU\software\microsoft\cryptography\providers\type 001 Opens key: HKLM\software\microsoft\cryptography\defaults\provider types\type 001 $\label{thm:local_hammon_hammon} \begin{tabular}{ll} HKLM \software \microsoft \strong \end{tabular} \begin{tabular}{ll} HKLM \software \microsoft \strong \end{tabular} \begin{tabular}{ll} HKLM \software \microsoft \strong \strong \end{tabular} \begin{tabular}{ll} HKLM \software \microsoft \strong \s$ Opens key: cryptographic provider Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution options\rsaenh.dll Opens key: HKLM\software\policies\microsoft\cryptography Opens key: HKLM\software\microsoft\cryptography HKLM\software\microsoft\cryptography\offload Opens key: $HKLM \ software \ microsoft \ cryptography \ defaults \ provider \ intel\ hardware$ Opens key: cryptographic service provider Opens key: HKLM\software\zebranetworksystems\neorouter Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution options\mswsock.dll Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution options\dnsapi.dll Opens key: HKLM\system\currentcontrolset\services\dnscache\parameters Opens key: HKLM\software\policies\microsoft\windows nt\dnsclient Opens key: Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution options\iphlpapi.dll Opens key: HKLM\system\currentcontrolset\services\tcpip\linkage

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

c7d49d7cecdc}

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

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

options\hnetcfg.dll

Opens key: HKLM\software\microsoft\rpc\securityservice

HKLM\svstem\currentcontrolset\services\winsock\parameters Opens kev: Opens key: $\label{lem:hklm} \verb+Kklm \system \current control set \services \tcpip \parameters \winsock$ Opens key: HKLM\software\microsoft\windows nt\currentversion\image file execution

options\wshtcpip.dll

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

options\rasadhlp.dll

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

options\msctf.dll

Opens key:

HKLM\software\microsoft\ctf\compatibility\6282b1723f3a4b0054d80aeb27c8fed5.exe

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

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

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

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

options\version.dll

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

options\msctfime.ime

Opens key: HKCU\software\microsoft\ctf

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

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

options\uxtheme.dll

Opens key: HKCU\software\microsoft\windows\currentversion\thememanager HKLM\system\currentcontrolset\control\terminal server[tsappcompat] Oueries value:

Queries value:

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

HKLM\system\currentcontrolset\control\terminal server[tsuserenabled] Queries value: Queries value: HKLM\software\microsoft\windows nt\currentversion\winlogon[leaktrack] HKLM\system\currentcontrolset\control\session manager[safedllsearchmode] Queries value:

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

nt\currentversion\compatibility32[6282b1723f3a4b0054d80aeb27c8fed5]

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

compatibility[6282b1723f3a4b0054d80aeb27c8fed5]

HKLM\software\microsoft\windows nt\currentversion\windows[appinit_dlls] Oueries value:

HKCU\control panel\desktop[multiuilanguageid] Queries value: HKCU\control panel\desktop[smoothscroll] Oueries value:

Oueries value:

 $HKCU \setminus software \setminus microsoft \setminus windows \setminus current version \setminus explorer \setminus advanced [enable balloon tips]$

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

manager[criticalsectiontimeout]

HKLM\software\microsoft\ole[rwlockresourcetimeout] Oueries value:

Queries value: HKCR\interface[interfacehelperdisableall]

HKCR\interface[interfacehelperdisableallforole32] Oueries value: HKCR\interface[interfacehelperdisabletypelib] Queries value: Queries value: HKCR\interface\{00020400-0000-0000-c000-

000000000046}[interfacehelperdisableall]

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

00000000046}[interfacehelperdisableallforole32]

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

settings[disableimprovedzonecheck]

Queries value: HKLM\software\microsoft\internet

explorer\main\featurecontrol\feature_protocol_lockdown[6282b1723f3a4b0054d80aeb27c8fed5.exe]

Oueries value: HKLM\software\microsoft\internet explorer\main\featurecontrol\feature_protocol_lockdown[*]

Queries value: HKLM\system\currentcontrolset\control\wmi\security[df8480a1-7492-4f45-

ab78-1084642581fb1

Oueries value: HKLM\system\currentcontrolset\control\wmi\security[00000000-0000-0000-

0000-0000000000000]

Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters[winsock_registry_version]

HKLM\svstem\currentcontrolset\services\winsock2\parameters\protocol catalog9[serial access num]

Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9[next_catalog_entry_id]

Queries value:

Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000001[packedcatalogitem]

Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000002[packedcatalogitem] Oueries value:

 $HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ protocol_catalog \ entries \ 0000000000003 \ [packed catalog item]$ Queries 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] Oueries value:

 $HKLM \ system \ current control set \ services \ winsock 2 \ parameters \ protocol_catalog \ entries \ 0000000000006 \ [packed catalog item]$ Queries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ protocol_catalog \ entries \ (000000000007 [packed catalog item]) \ details \ d$ Queries value:

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HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ protocol\_catalog \ entries \ (000000000008 [packed catalog item]) \ details \ d
                           Oueries value:
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HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\00000000009[packedcatalogitem] Queries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ protocol_catalog \ entries \ (0000000000010 [packed catalog item]) \ details \$ Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\protocol_catalog9\catalog_entries\000000000011[packedcatalogitem] Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5[serial_access_num] Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5[num_catalog_entries] Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000001[librarypath] Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000001[displaystring] Queries value:

 $HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap ameters \setminus namespace_catalog S \setminus catalog_entries \setminus 000000000001[providerid]$ Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000001[addressfamily] Queries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space_catalog 5 \ (catalog_entries \ 000000000001[supported name space]$ Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000001[enabled] Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000001[version] Queries value:

 $HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap amespace_catalog \\ \setminus catalog_entries \setminus 000000000001[storesserviceclass info]$ Queries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space_catalog5 \ (catalog_entries \ 000000000002 \ [library path]$

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000002[displaystring] Queries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space_catalog \ services \ winsock 2 \ parameters \ name space_catalog \ services \ winsock 2 \ parameters \ name space_catalog \ services \ winsock 2 \ parameters \ name space_catalog \ services \ winsock 2 \ parameters \ name space_catalog \ services \ winsock 2 \ parameters \ name space_catalog \ services \ winsock 2 \ parameters \ name space_catalog \ services \ winsock 2 \ parameters \ name space_catalog \ services \ winsock 2 \ parameters \ name space_catalog \ services \ name space_catalog \ name space_cat$ Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000002[supportednamespace] Oueries value:

 $HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap ameters \setminus namespace_catalog 5 \setminus catalog_entries \setminus 00000000000002 [enabled]$ Queries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ namespace_catalog \ set alog_entries \ (0000000000002 \ [version])$

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000002[storesserviceclassinfo] Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000003[librarypath] Queries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space_catalog 5 \ (catalog_entries \ 000000000003 \ [displaystring]$

 $HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap ameters \setminus namespace_catalog S \setminus catalog_entries \setminus 0000000000003[providerid]$ Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000003[addressfamily] Oueries value:

 $HKLM \ system \ (current control set \ services \ winsock 2 \ parameters \ name space_catalog 5 \ (catalog_entries \ 0000000000003 [supported name space]]$ Queries value:

 $HKLM \setminus system \setminus current control set \setminus services \setminus winsock 2 \cap ameters \setminus namespace_catalog 5 \setminus catalog_entries \setminus 0000000000003 [enabled]$ Queries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\00000000003[version] Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters\namespace_catalog5\catalog_entries\000000000003[storesserviceclassinfo]

HKLM\system\currentcontrolset\services\winsock2\parameters[ws2 32numhandlebuckets]

Oueries value:

HKLM\system\currentcontrolset\services\winsock2\parameters[ws2 32spincount]

HKCU\software\microsoft\windows\currentversion\policies\explorer[norun] Oueries value:

Oueries value:

HKCU\software\microsoft\windows\currentversion\policies\explorer[nodrives] Queries value:

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

Queries value: HKCU\software\microsoft\windows\currentversion\policies\explorer[nonetconnectdisconnect]

Queries value:

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

Oueries value:

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

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

folders[common appdata]

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

folders[appdata] Oueries value:

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

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

 ${\tt HKLM \ } software \verb|\ microsoft \ \\ cryptography \verb|\ defaults \ \\ provider types \verb|\ types \ \\ types \ \\ types \verb|\ types \ \\ types \ \\ types \verb|\ types \ \\ types$ Oueries value:

001[name]

Oueries value: HKLM\software\microsoft\cryptography\defaults\provider\microsoft strong cryptographic provider[type] Queries value: HKLM\software\microsoft\cryptography\defaults\provider\microsoft strong cryptographic provider[image path] HKLM\system\currentcontrolset\control\session Oueries value: manager[safeprocesssearchmode] Queries value: HKLM\software\microsoft\cryptography[machineguid] Oueries value: HKLM\system\currentcontrolset\services\dnscache\parameters[queryadaptername] Oueries value: HKLM\system\currentcontrolset\services\tcpip\parameters[disableadapterdomainname] Queries value: Oueries value: HKLM\system\currentcontrolset\services\tcpip\parameters[usedomainnamedevolution] Queries value: HKLM\svstem\currentcontrolset\services\dnscache\parameters[prioritizerecorddata] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[prioritizerecorddata] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[allowunqualifiedquery] Oueries value: HKLM\system\currentcontrolset\services\tcpip\parameters[allowunqualifiedquery] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[appendtomultilabelname] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[screenbadtlds] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[filterclusterip] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[waitfornameerroronall] HKLM\system\currentcontrolset\services\dnscache\parameters[useedns] Queries value: Oueries value: HKLM\system\currentcontrolset\services\dnscache\parameters[queryipmatching] HKLM\system\currentcontrolset\services\dnscache\parameters[usehostsfile] Oueries value: Oueries value: $\label{thm:local_ham} \begin{tabular}{ll} HKLM \end{tabular} system \current control set \end{tabular} set \end{tabular} and \end{tabular} is a simular \end{tabular} and \end{tabular} system \current control set \end{tabular} set \end{tabular} is a simular \end{tabular} is a simular \end{tabular} system \end{tabular} set \end{tabular} is a simular \end{tabular} set \end{tabular} is a simular \end{tabular} set \end{tabula$ Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[disabledynamicupdate] HKLM\svstem\currentcontrolset\services\dnscache\parameters[registerprimarvname] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registeradaptername] Queries value: $HKLM \verb| system| current control set \verb| services| tcpip| parameters[enable adapter domain name registration]| to the first of the firs$ Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registerreverselookup] Queries value: HKLM\system\currentcontrolset\services\tcpip\parameters[disablereverseaddressregistrations] Oueries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registerwanadapters] Queries value: $HKLM \setminus system \setminus current control set \setminus services \setminus tcpip \setminus parameters [disable wandy namic update]$ Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registrationttl] Oueries value: HKLM\system\currentcontrolset\services\tcpip\parameters[defaultregistrationttl] Oueries value: HKLM\system\currentcontrolset\services\tcpip\parameters[defaultregistrationrefreshinterval] Oueries value: HKLM\system\currentcontrolset\services\dnscache\parameters[registrationmaxaddresscount] Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[updatesecuritylevel] Oueries value: HKLM\system\currentcontrolset\services\tcpip\parameters[updatesecuritylevel] Oueries value: HKLM\system\currentcontrolset\services\dnscache\parameters[updatezoneexcludefile] Queries value: HKLM\svstem\currentcontrolset\services\dnscache\parameters[dnstest] Oueries value: Queries value: HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachesize]

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

Oueries value:

Oueries value:

Queries value:

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

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

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HKLM\system\currentcontrolset\services\dnscache\parameters[serverprioritytimelimit]
 Oueries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[maxcachedsockets]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[multicastlistenlevel]
 Queries value:
HKLM\system\currentcontrolset\services\dnscache\parameters[multicastsendlevel]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[dnsquerytimeouts]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[dnsquickquerytimeouts]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters[dnsmulticastquerytimeouts]
 Oueries value:
                     HKLM\system\currentcontrolset\services\tcpip\linkage[bind]
 Queries value:
c7d49d7cecdc}[enabledhcp]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{16325b0b-4636-4303-abe3-
c7d49d7cecdc}[leaseobtainedtime]
 Queries value:
c7d49d7cecdc}[leaseterminatestime]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{16325b0b-4636-4303-abe3-
c7d49d7cecdc}[dhcpserver]
 Queries value:
                     HKLM\system\currentcontrolset\services\tcpip\parameters[hostname]
 Queries value:
                     HKLM\system\currentcontrolset\services\tcpip\parameters[domain]
 Oueries value:
c7d49d7cecdc}[queryadaptername]
 Queries value:
c7d49d7cecdc}[disableadapterdomainname]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{16325b0b-4636-4303-abe3-
c7d49d7cecdc}[registrationenabled]
 Queries value:
c7d49d7cecdc}[registeradaptername]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{16325b0b-4636-4303-abe3-
c7d49d7cecdc}[registrationmaxaddresscount]
 Queries value:
c7d49d7cecdc}[maxnumberofaddressestoregister]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{16325b0b-4636-4303-abe3-
c7d49d7cecdc}[domain]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{16325b0b-4636-4303-abe3-
c7d49d7cecdc}[dhcpdomain]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{16325b0b-4636-4303-abe3-
c7d49d7cecdc}[ipautoconfigurationenabled]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{16325b0b-4636-4303-abe3-
c7d49d7cecdc}[addresstype]
 Oueries value:
c7d49d7cecdc}[nameserver]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\interfaces\{16325b0b-4636-4303-abe3-
c7d49d7cecdc}[dhcpnameserver]
 Queries value:
                     HKLM\system\currentcontrolset\services\tcpip\parameters[searchlist]
HKLM\system\currentcontrolset\services\tcpip\parameters[dnsnbtlookuporder]
 Queries value:
                     HKLM\software\microsoft\rpc\securityservice[defaultauthlevel]
 Queries value:
                     HKLM\system\currentcontrolset\services\winsock\parameters[transports]
 Oueries value:
                     HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[mapping]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[minsockaddrlength]
 Oueries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[maxsockaddrlength]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[usedelayedacceptance]
 Queries value:
HKLM\system\currentcontrolset\services\tcpip\parameters\winsock[helperdllname]
                     HKLM\system\currentcontrolset\services\winsock2\parameters[autodialdll]
 Oueries value:
 Oueries value:
                     HKLM\software\microsoft\ctf\systemshared[cuas]
 Queries value:
                     HKCU\keyboard layout\toggle[language hotkey]
 Oueries value:
                     HKCU\keyboard layout\toggle[hotkey]
```

HKCU\keyboard layout\toggle[layout hotkey]

Queries value:

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

Queries value: HKLM\software\microsoft\windows nt\currentversion\imm[ime file]

Queries value: HKCU\software\microsoft\ctf[disable thread input manager]

Queries value: HKCU\software\microsoft\windows\currentversion\thememanager[compositing]

Queries value: HKCU\control panel\desktop[lamebuttontext] Value changes: HKLM\software\microsoft\cryptography\rng[seed]