


Threads: How to follow http redirection?

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Jun 5th, 2018, 09:14 AM			#1

Dragokas
Thread Starter
Hyperactive Member



Join Date: Aug 2015
Location: Ukraine
Posts: 443

How to follow http redirection?

Hi,

```
Code:
Public Enum WinHttpRequestOption
WinHttpRequestOption_UserNameString
WinHttpRequestOption_URL
WinHttpRequestOption_URLCodePage
WinHttpRequestOption_SslErrorIgnoreFlags
WinHttpRequestOption_SelectCertificate
WinHttpRequestOption_EnableRedirects
WinHttpRequestOption_UriEscapeDisable
WinHttpRequestOption_UriEscapeDisableQuery
WinHttpRequestOption_SecureProtocols
WinHttpRequestOption_EnableTracing
WinHttpRequestOption_RevertImpersonationOverSsl
WinHttpRequestOption_EnableHttpToHttpsRedirects
WinHttpRequestOption_EnablePassportAuthentication
WinHttpRequestOption_MaxAutomaticRedirects
WinHttpRequestOption_MaxResponseHeaderSize
WinHttpRequestOption_MaxResponseDrainSize
WinHttpRequestOption_EnableHttp1.1
WinHttpRequestOption_EnableCertificateRevocationCheck
End Enum

Public Function GetUrl(sURL As String) As String
On Error Resume Next
Dim Timeout As Long
Dim Timeout = 2000 'milliseconds
Dim xhr As Object
Set xhr = CreateObject("WinHttpRequest.5.1")
'https://msdn.microsoft.com/en-us/library/windows/desktop/aa384108(v=vs.85).aspx
xhr.Option(WinHttpRequestOption_EnableRedirects) = True 'true by default
xhr.Option(WinHttpRequestOption_EnableHttpToHttpsRedirects) = True 'false by default
'https://msdn.microsoft.com/en-us/library/windows/desktop/aa384108(v=vs.85).aspx
End Function
```

debug.? GetUrl("https://raw.githubusercontent.com/dragokas/hijackthis/dev/src/HijackThis-update.txt") is work.

debug.? GetUrl("https://github.com/dragokas/hijackthis/raw/dev/src/HijackThis-update.txt") is not work (return 0x80072F7D).

Thanks, Alex.


Projects: [Check Browser's Link] [ClearNG] [TrendMicro HijackThis For] [My GitHub]
Sources: [Fixed the Search Engine] [Strobelizer] [Digital signature checker] [JOS Version Info] [Unicode VB6 functions]
Expert on Windows Batch (CMD/BAT), Malware analyst. (AV emails to report a false positive / false negative).

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Yesterday, 12:56 PM		#2
---------------------	--	----

dz32
Added Member



Join Date: Jun 2015
Posts: 209

Re: How to follow http redirection?

looks like WinHttpRequest.5.1 is using only TLS 1.0 and github wont accept it

when I make the request and look at the packets in Wireshark I get:

TLSv1 Record Layer: Alert (Level: Fatal, Description: Protocol Version)
Version: TLS 1.0 (0x0301)

I also added some more flags which didn't help:

```
xhr.Option(WinHttpRequestOption_SslErrorIgnoreFlags) = &H3300
'xhr.Option(WinHttpRequestOption_SecureProtocols) = &H80 Or &H28
xhr.Option(WinHttpRequestOption_EnableCertificateRevocationCheck) = False
```


try

?geturl("https://howssmyssl.com/a/check")

```
{'given_cipher_suites':('TLS_RSA_WITH_RC4_128_MD5','TLS_RSA_WITH_RC4_128_SHA','TLS_RSA_WITH_3DES_EDE_CBC_SHA','TLS_RSA_WITH_DES_CBC_SHA','TLS_RSA_EXPORT1024_WITH_RC4_56_SHA','TLS_RSA_EXPORT1024_WITH_DES_CBC_SHA','TLS_RSA_EXPORT1024_WITH_RC4_56_SHA','TLS_RSA_EXPORT1024_WITH_DES_CBC_SHA','TLS_DHE_DSS_WITH_DES_CBC_SHA','TLS_DHE_DSS_EXPORT1024_WITH_DES_CBC_SHA','ephemeral_keys_supported':true,'session_ticket_supported':false,'tls_compression_supported':false,'unknown_cipher_suite_supported':false,'beast_vuln':true,'able_to_detect_n_minus_one_splitting':false,'insecure_cipher_suites':('TLS_DHE_DSS_EXPORT1024_WITH_DES_CBC_SHA':['uses keys smaller than 128 bits in its encryption'],'TLS_DHE_DSS_WITH_3DES_EDE_CBC_SHA':['uses 3DES which is vulnerable to the Sweet32 attack but was not configured as a fallback in the ciphersuite order'],'TLS_DHE_DSS_WITH_DES_CBC_SHA':['uses keys smaller than 128 bits in its encryption'],'TLS_RSA_EXPORT1024_WITH_RC4_56_SHA':['uses keys smaller than 128 bits in its encryption'],'uses RC4 which has insecure biases in its output'],'TLS_RSA_EXPORT1024_WITH_DES_CBC_SHA':['uses keys smaller than 128 bits in its encryption'],'uses RC4 which has insecure biases in its output'],'TLS_RSA_WITH_3DES_EDE_CBC_SHA':['uses 3DES which is vulnerable to the Sweet32 attack but was not configured as a fallback in the ciphersuite order'],'TLS_RSA_WITH_DES_CBC_SHA':['uses keys smaller than 128 bits in its encryption'],'TLS_RSA_EXPORT1024_WITH_RC4_128_MD5':['uses RC4 which has insecure biases in its output'],'TLS_RSA_WITH_RC4_128_SHA':['uses RC4 which has insecure biases in its output'],'tls_version':'TLS 1.0','rating':'Bad'}
```

Yesterday, 06:56 PM

xxdoc123
Added Member



Join Date: Aug 2016
Posts: 231

Re: How to follow http redirection?

Originally Posted by Dragokas

Hi,

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Code:
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WinHttpRequestOption_URL
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WinHttpRequestOption_EnableTracing
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End Enum

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On Error Resume Next
Dim Timeout As Long
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Dim xhr As Object
Set xhr = CreateObject("WinHttpRequest.5.1")
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xhr.Option(WinHttpRequestOption_EnableRedirects) = True 'true by default
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End Function
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debug.? GetUrl("https://raw.githubusercontent.com/dragokas/hijackthis/dev/src/HijackThis-update.txt") is work.

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Thanks, Alex.

Code:

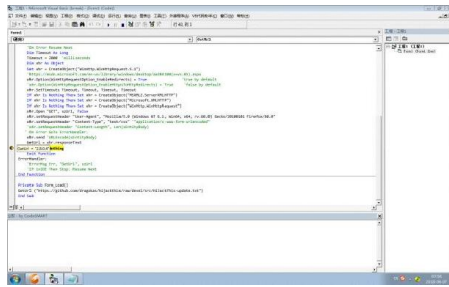
```
Public Function API_Http(sURL As String, sMethod As Method, sRequestHeader As String, _ sCookie As String, sPostData As String) As Integer
Dim sBuffer As String * 1024
Dim iBufferLen As Long
Dim sURLVersion As String
Dim sStatus As String
Dim sOptionBuffer As String
Dim iOptionBufferLen As Long
Dim sSecFlag As Long
Dim sSecPlay As Long
Dim sPort As Long
Dim iInternetConnect As Long, iHttpOpenRequest As Long
Dim sHttpReq As String, sHost As String, sPort As String, sURL As String
Dim iUseSecure As Boolean, iService As Integer

Screen.MousePointer = vbHourglass
```

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Last edited by xxdoc123; Yesterday at 09:49 PM.

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Yesterday, 09:41 PM

xxdoc123
Added Member
Join Date: Aug 2016
Posts: 231

Re: How to follow http redirection?
<https://stackoverflow.com/questions/...70683#39170683>

#6

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Today, 09:51 AM

DEXWERX
Frenzied Member
Join Date: Jun 2015
Posts: 1,934

Re: How to follow http redirection?
any luck setting these flags manually?

#7

```
winhttp.h

Code:
#define WINHTTP_FLAG_SECURE_PROTOCOL_SSL2 0x00000008
#define WINHTTP_FLAG_SECURE_PROTOCOL_SSL3 0x00000020
#define WINHTTP_FLAG_SECURE_PROTOCOL_TLS1 0x00000080
#define WINHTTP_FLAG_SECURE_PROTOCOL_TLS1_1 0x00000200
#define WINHTTP_FLAG_SECURE_PROTOCOL_TLS1_2 0x00000800
#define WINHTTP_FLAG_SECURE_PROTOCOL_ALL (WINHTTP_FLAG_SECURE_PROTOCOL_SSL2 | \
WINHTTP_FLAG_SECURE_PROTOCOL_SSL3 | \
WINHTTP_FLAG_SECURE_PROTOCOL_TLS1)

Code:
const WINHTTP_FLAG_SECURE_PROTOCOL_SSL2 As Long = &H8
const WINHTTP_FLAG_SECURE_PROTOCOL_SSL3 As Long = &H20
const WINHTTP_FLAG_SECURE_PROTOCOL_TLS1 As Long = &H80
const WINHTTP_FLAG_SECURE_PROTOCOL_TLS1_1 As Long = &H200
const WINHTTP_FLAG_SECURE_PROTOCOL_TLS1_2 As Long = &H800
const WINHTTP_FLAG_SECURE_PROTOCOL_ALL As Long = (WINHTTP_FLAG_SECURE_PROTOCOL_SSL2 | \
WINHTTP_FLAG_SECURE_PROTOCOL_SSL3 | \
WINHTTP_FLAG_SECURE_PROTOCOL_TLS1)

xhr.Option(WinHttpRequestOption_SecureProtocols) = WINHTTP_FLAG_SECURE_PROTOCOL_TLS1_2
```

Last edited by DEXWERX; Today at 10:18 AM.

Imagine what it would be like to set breakpoints in, or step through subclassing code; and then being able to hit stop/end/debug or continue, without crashing the IDE.
VB6.tib | Bulletproof Subclassing in the IDE (no thunks/assembly/DEP issues)

(rate this post)

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Today, 10:34 AM

Dragokas
Thread Starter
Hyperactive Member
Join Date: Aug 2015
Location: Ukraine
Posts: 443

Re: How to follow http redirection?
dz32, thank you for analysis.
xxdoc123, thank you. Nice class! It's work.

Code:
dwStatusSize = Len(dwStatus)

should be:
Code:
dwStatusSize = Lenb(dwStatus)

Can you, please, also give me your ParseURL(), CheckUrl(), LiteCookies() parsers?

Projects: [Check Browser's UNK] [ClearJunk] [TrendMicro Hback7This For] [My Github]
Sources: [Foster File Search Engine] [Struggle] [Digital signature checker] [OS Version Info] [Unicode VB6 functions]
Expert on Windows Batch (CMD/BSK), Native analysis. (or email to report a false positive / false negative).

#8

(rate this post)

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Today, 11:00 AM

dz32
Added Member
Join Date: Jun 2015
Posts: 209

Re: How to follow http redirection?
thanks xxdoc
I tested on an xp test machine probably why I got the TLS 1.0 error
didnt even have a TLS 1.1 or 1.2 in the schannel protocols regkey.
HKLM\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\

#9

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thanks xxdoc
I tested on an xp test machine probably why I got the TLS 1.0 error
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HKLM\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\

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[dz32](#), [Dragokas](#)

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