

Forum:[Hack Forums](#)

Thread: [CloudFlare "Bypass" \[No WebBrowser\]](#)

idb. - November 9, 2014, 2:20 pm

A site that I was working with recently implemented CF so it was fucking with my automation over WebRequests code. Threw this together so that I could go through CloudFlare without having to use a WebBrowser method (similar to the one provided here: <https://hackforums.net/showthread.php?tid=3762105>). Interesting little piece of code though. Shows how to emulate some Javascript, which from what I've seen most people haven't really messed with outside of the Browser.

Before I get into it let me make mention that you need to add a reference to the Microsoft Script Control in order for it to work properly. Also keep in mind that I've only tested this code on a few sites. There could be errors when parsing the JS values. If it's fucking up for you, drop a line and let me know so I can update.

```
Code Imports System.Runtime.InteropServices
Imports System.Text
Imports System.Text.RegularExpressions
```

Friend Class CloudFlare

```
Public Shared Function Bypass(html As String, host As String) As DictionaryEntry
    Dim js As New MSScriptControl.ScriptControl() With {.AllowUI = False, .Language = "JScript"}
    Dim result As DictionaryEntry = Nothing
```

```
Try
```

```
Dim m As MatchCollection = Regex.Matches(html, "var t,r,a,f, (?<value>.*?[\\s\\S]*?)a.value")
If m.Count.Equals(0) Then Throw New Exception("Could not parse script values.")
```

```
Dim value As String = m(0).Groups("value").Value
Dim key As String = String.Join(".", value.Split("="c)(0), value.Split(""""c)(1))
```

```
Dim lines As New List(Of String)
For Each line As String In From item In value.Split(";") Select item = item.Trim Where Not
String.IsNullOrEmpty(item) Where item.StartsWith(key.Split("."c)(0))
If line.StartsWith(key.Split("."c)(0) & "=") Then
    lines.Add("var " & line & ";")
Else
    lines.Add(line & ";")
End If
Next
```

```
Dim code As New StringBuilder("function bypass(host)")
With code
    .AppendLine("{")
    For Each line As String In lines
        .AppendLine(line)
```

```

Next
.AppendLine(String.Format("    var res = parseInt({0}, 10) + host.length;", key))
.AppendLine("    return res;")
.AppendLine("{}")

js.AddCode(.ToString)
End With

Dim params As Object() = New Object() {host}

result = New DictionaryEntry(Regex.Match(html, """"[a-fA-F\d]{32}""").Groups(1).Value,
js.Run("bypass", params).ToString)

Catch ex As Exception
Finally
js.Reset()
Marshal.FinalReleaseComObject(js)
js = Nothing
End Try

Return result
End Function

End Class

```

In order to use this you will need to pass the html that was returned from the CF page that appears when you're requesting whatever Url you're requesting.

```

Code Dim cf As DictionaryEntry = CloudFlare.BypassCloudflare(html, "bombshare.altervista.org")
If cf.Key IsNot Nothing Then
    Debug.Print("vc: " & cf.Key.ToString)
    Debug.Print("answer: " & cf.Value.ToString)
End If

```

Also make sure that you account for the `__cfduid` (returned when you request the page and CF is returned) & `cf_clearance` (returned when you perform your request to `/cdn-cgi//chk_jschl` in order to pass through the CF) cookies. Without these cookies you will just get the CF landing page over and over.

If I get some more free time today I'll try to throw together a little example to show how this is actually used. For now having the required values returned to you should be good enough.

Anyhow, hope this helps someone out there. If not, shrug atleast I was entertained for a brief period of time. lol.

Earn - November 9, 2014, 8:34 pm

This seems like a great script. I am not sure why others haven't taken interest. It is finally something that is unique in this section & no one comments.

Anyway, great work. I will test it out when I am on my computer.

#Kat - November 9, 2014, 9:35 pm

very nice look forward to using on a small project

SIM-478284 - November 9, 2014, 10:19 pm

Nice share! I'm not going to use the code, though, I'm just posting to keep the thread alive.

Btw, I've always liked things you've shared in this forum.

idb - November 10, 2014, 2:55 am

Thanks guys. The kind words are appreciated :)

Cornflower Blue ???-? - November 10, 2014, 6:44 am

Glad to see you back to programming Idb, missed seeing ya around :)

OT: Pretty cool release, always trying to prevent the use of shitty web browsers I see.

idb - November 10, 2014, 7:20 pm

(Nov 10, 2014 07:44 AM)Cornflower Blue ???-?— Wrote: [\[CITE\]](#) Glad to see you back to programming Idb, missed seeing ya around :)

OT: Pretty cool release, always trying to prevent the use of shitty web browsers I see.

I never stopped brother. I been busy with projects for customers. This was a part of a project that I didn't feel needed to be kept a secret, and thought it could benefit people so figured why not share? Figured it was something that's a bit different than the usual as well. I'm still gonna put together a little example for this, I just don't have time right now.

CodeAssassin - November 11, 2014, 9:28 am

Very nice, great to see some javascript handling outside of the webbrowser :)

Thanks again for the share!

DisguiserNET - November 11, 2014, 12:22 pm

nice share, expecially the patr of executing js

Cairns - November 11, 2014, 1:19 pm

Nice example buddy. I haven't personally used MSScriptControl I usually create a web browser instance and execute the script from there but no doubt MSScriptControl can perform better. Thanks for the share

idb - November 11, 2014, 10:15 pm

(Nov 11, 2014 02:19 PM)Cairns Wrote: [\[CITE\]](#) Nice example buddy. I haven't personally used MSScriptControl I usually create a web browser instance and execute the script from there but no doubt MSScriptControl can perform better. Thanks for the share

I just found out about it myself as well. Creating instances of WB drives the resources up way higher than they should go though which is why I wanted to find an alternative.

+Haze - April 30, 2016, 9:46 pm

Though this is a 2 year old thread, I still feel like it's still very valuable. I used this today on a C# project and it worked a fucking treat. Thanks idb, you saved me a lot of time.

idb - April 30, 2016, 9:52 pm

Glad to hear it's still working and was able to be put to use. Enjoy! :)

R@bbit - May 2, 2016, 3:08 am

Nice share dude! thanks for code :-)

HopperSat - May 2, 2016, 9:47 am

Anyway, great work. I will test it out when I am on my computer.

ZenLove - May 3, 2016, 11:35 am

(Nov 9, 2014 09:34 PM)Earn Wrote: [\[CITE\]](#) This seems like a great script. I am not sure why others haven't taken interest. It is finally something that is unique in this section & no one comments.

Anyway, great work. I will test it out when I am on my computer.

Because a majority of the 'programmers' here have only watched a few thenewboston videos and understand if statements, thinking they're experts. Not alot of people on this forum can actually code..

WhyWork - May 3, 2016, 8:10 pm

All of idb's posts are high quality. He's one of the best coders here but always has you thinking outside of the box...

idb. - May 4, 2016, 1:35 am

(May 3, 2016 08:10 PM)WhyWork Wrote: [\[CITE\]](#) All of idb's posts are high quality. He's one of the best coders here

Thank you for the kind words! That's an interesting username you have there. A bit of history behind the term actually. Good choice :)

(May 3, 2016 08:10 PM)WhyWork Wrote: [\[CITE\]](#) but always has you thinking outside of the box... Is that a bad thing? lol

deiski - May 4, 2016, 1:38 am

(May 4, 2016 01:35 AM)idb. Wrote: [\[CITE\]](#) Thank you for the kind words! That's an interesting username you have there. A bit of history behind the term actually. Good choice :)

Is that a bad thing? lol

Not a bad thing, just means you are a lot more advanced than majority of this section.

hamburgerman - May 4, 2016, 2:45 am

Good script. So many people using CF and yet, it's so easily bypassable.

Lexus™ - May 4, 2016, 9:56 am

looks good

i will test it now

thanks for sharing :)

Ninja - May 4, 2016, 11:02 am

(May 4, 2016 02:45 AM)hamburgerman Wrote: [\[CITE\]](#) Good script. So many people using CF and yet, it's so easily bypassable.

But cloudflare is mostly ddos protection, not bot protection, iirc.

gezzuzz - July 25, 2016, 8:21 pm

(Nov 9, 2014 03:20 PM)idb. Wrote: [\[CITE\]](#) A site that I was working with recently implemented CF so it was fucking with my automation

you feel like revisiting this? i know its been 2 years.. but seem i can still get the answer using you method but cant get the __cfduid cookie due to the 503 error... i can get the html page.. just not the cookies..

idb. - July 26, 2016, 6:18 am

(Jul 25, 2016 08:21 PM)gezzuzz Wrote: [\[CITE\]](#) you feel like revisiting this? i know its been 2 years.. but seem i can still get the answer using you method but cant get the __cfduid cookie due to the 503 error... i can get the html page.. just not the cookies..

It has been brought to my attention that the javascript has been updated. This means you will need to change the parsing of the JS. Also, you need to implement a hard coded 3-5 second pause before making the final request or else the cookies will not be issued to you. I wrote an example on this for someone, but they paid me, so I cannot post it freely. Applying the updates I just stated is all that needed to be done though.