



UOC_web_scan

Report generated by Nessus™

Mon, 30 Mar 2020 03:56:23 EDT

Nessus Essentials

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Vulnerabilities by Host

Nessus Essentials

192.168.100.5



Scan Information

Start time: Mon Mar 30 03:55:39 2020
End time: Mon Mar 30 03:56:23 2020

Host Information

IP: 192.168.100.5
OS: Linux Kernel 3.10, Linux Kernel 3.13, Linux Kernel 4.2, Linux Kernel 4.8

Vulnerabilities

77829 - GNU Bash Environment Variable Handling Code Injection (Shellshock)

Synopsis

The remote web server is affected by a remote code execution vulnerability.

Description

The remote web server is affected by a command injection vulnerability in GNU Bash known as Shellshock. The vulnerability is due to the processing of trailing strings after function definitions in the values of environment variables. This allows a remote attacker to execute arbitrary code via environment variable manipulation depending on the configuration of the system.

See Also

<http://seclists.org/oss-sec/2014/q3/650>
<http://www.nessus.org/u?dacf7829>
<https://www.invisiblethreat.ca/post/shellshock/>

Solution

Apply the referenced patch.

Risk Factor

Critical

CVSS v3.0 Base Score

9.8 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H)

CVSS v3.0 Temporal Score

9.4 (CVSS:3.0/E:H/RL:O/RC:C)

CVSS Base Score

10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C)

CVSS Temporal Score

8.7 (CVSS2#E:H/RL:OF/RC:C)

STIG Severity

I

References

BID	70103
CVE	CVE-2014-6271
XREF	CERT:252743
XREF	EDB-ID:34765
XREF	EDB-ID:34766
XREF	EDB-ID:34777
XREF	IAVA:2014-A-0142

Exploitable With

Core Impact (true) Metasploit (true)

Plugin Information

Published: 2014/09/24, Modified: 2019/11/25

Plugin Output

tcp/80

```
Nessus was able to exploit the issue using the following request :
```

```
GET /cgi-bin/vuln.cgi HTTP/1.1
Host: 192.168.100.5
Accept-Charset: iso-8859-1,utf-8;q=0.9,*;q=0.1
Accept-Language: en
Connection: Keep-Alive
User-Agent: () { ignored; }; echo Content-Type: text/plain ; echo ; echo ; /usr/bin/id;
```

192.168.100.5

```
Pragma: no-cache
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*
```

This produced the following truncated output (limited to 2 lines) :

```
----- snip -----
uid=1000(hca) gid=50(staff) groups=50(staff)
----- snip -----
```

82581 - GNU Bash Incomplete Fix Remote Code Injection (Shellshock)

Synopsis

The remote web server is affected by a remote code execution vulnerability.

Description

The remote web server is affected by a command injection vulnerability in GNU Bash known as Shellshock. The vulnerability is due to the processing of trailing strings after function definitions in the values of environment variables. This allows a remote attacker to execute arbitrary code via environment variable manipulation depending on the configuration of the system.

Note that this vulnerability exists because of an incomplete fix for CVE-2014-6271, CVE-2014-7169, and CVE-2014-6277.

See Also

<http://lcamtuf.blogspot.com/2014/10/bash-bug-how-we-finally-cracked.html>

<http://www.nessus.org/u?dacf7829>

Solution

Apply the referenced patch.

Risk Factor

Critical

CVSS v3.0 Base Score

9.8 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H)

CVSS v3.0 Temporal Score

9.1 (CVSS:3.0/E:F/RL:O/RC:C)

CVSS Base Score

10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C)

CVSS Temporal Score

8.3 (CVSS2#E:F/RL:OF/RC:C)

STIG Severity

I

References

BID 70166
CVE CVE-2014-6278
XREF IAVA:2014-A-0142

Exploitable With

Core Impact (true) Metasploit (true)

Plugin Information

Published: 2015/04/06, Modified: 2019/11/22

Plugin Output

tcp/80

Nessus was able to exploit the issue using the following request :

```
GET /cgi-bin/vuln.cgi HTTP/1.1
Host: 192.168.100.5
Accept-Charset: iso-8859-1,utf-8;q=0.9,*;q=0.1
Accept-Language: en
Connection: Keep-Alive
User-Agent: () { _; } >_[${$()}] { echo Content-Type: text/plain ; echo ; echo ; /usr/bin/id; }
Pragma: no-cache
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*
```

This produced the following truncated output (limited to 2 lines) :

```
----- snip -----
uid=1000(hca) gid=50(staff) groups=50(staff)
----- snip -----
```


Synopsis

Debugging functions are enabled on the remote web server.

Description

The remote web server supports the TRACE and/or TRACK methods. TRACE and TRACK are HTTP methods that are used to debug web server connections.

See Also

https://www.cgisecurity.com/whitehat-mirror/WH-WhitePaper_XST_ebook.pdf

<http://www.apacheweek.com/issues/03-01-24>

<https://download.oracle.com/sunalerts/1000718.1.html>

Solution

Disable these methods. Refer to the plugin output for more information.

Risk Factor

Medium

CVSS v3.0 Base Score

5.3 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N)

CVSS v3.0 Temporal Score

4.6 (CVSS:3.0/E:U/RL:O/RC:C)

CVSS Base Score

5.0 (CVSS2#AV:N/AC:L/Au:N/C:P/I:N/A:N)

CVSS Temporal Score

3.7 (CVSS2#E:U/RL:OF/RC:C)

References

BID	9506
BID	9561
BID	11604
BID	33374

BID 37995
CVE CVE-2003-1567
CVE CVE-2004-2320
CVE CVE-2010-0386
XREF CERT:288308
XREF CERT:867593
XREF CWE:16
XREF CWE:200

Plugin Information

Published: 2003/01/23, Modified: 2019/03/27

Plugin Output

tcp/80

To disable these methods, add the following lines for each virtual host in your configuration file :

```
RewriteEngine on
RewriteCond %{REQUEST_METHOD} ^(TRACE|TRACK)
RewriteRule .* - [F]
```

Alternatively, note that Apache versions 1.3.34, 2.0.55, and 2.2 support disabling the TRACE method natively via the 'TraceEnable' directive.

Nessus sent the following TRACE request :

```
----- snip -----
TRACE /Nessus661699624.html HTTP/1.1
Connection: Close
Host: 192.168.100.5
Pragma: no-cache
User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0)
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*
Accept-Language: en
Accept-Charset: iso-8859-1,*,utf-8
```

```
----- snip -----
```

and received the following response from the remote server :

```
----- snip -----
HTTP/1.1 200 OK
Date: Mon, 30 Mar 2020 07:55:59 GMT
Server: Apache/2.2.21 (Unix) DAV/2
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Transfer-Encoding: chunked
Content-Type: message/http

TRACE /Nessus661699624.html HTTP/1.1
Connection: Keep-Alive
Host: 192.168.100.5
Pragma: no-cache
User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0)
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*
```

```
Accept-Language: en  
Accept-Charset: iso-8859-1,*,utf-8
```

```
----- snip -----
```

Synopsis

The remote web server may fail to mitigate a class of web application vulnerabilities.

Description

The remote web server does not set an X-Frame-Options response header or a Content-Security-Policy 'frame-ancestors' response header in all content responses. This could potentially expose the site to a clickjacking or UI redress attack, in which an attacker can trick a user into clicking an area of the vulnerable page that is different than what the user perceives the page to be. This can result in a user performing fraudulent or malicious transactions.

X-Frame-Options has been proposed by Microsoft as a way to mitigate clickjacking attacks and is currently supported by all major browser vendors.

Content-Security-Policy (CSP) has been proposed by the W3C Web Application Security Working Group, with increasing support among all major browser vendors, as a way to mitigate clickjacking and other attacks. The 'frame-ancestors' policy directive restricts which sources can embed the protected resource.

Note that while the X-Frame-Options and Content-Security-Policy response headers are not the only mitigations for clickjacking, they are currently the most reliable methods that can be detected through automation. Therefore, this plugin may produce false positives if other mitigation strategies (e.g., frame-busting JavaScript) are deployed or if the page does not perform any security-sensitive transactions.

See Also

<http://www.nessus.org/u?399b1f56>

https://www.owasp.org/index.php/Clickjacking_Defense_Cheat_Sheet

<https://en.wikipedia.org/wiki/Clickjacking>

Solution

Return the X-Frame-Options or Content-Security-Policy (with the 'frame-ancestors' directive) HTTP header with the page's response.

This prevents the page's content from being rendered by another site when using the frame or iframe HTML tags.

Risk Factor

Medium

CVSS Base Score

4.3 (CVSS2#AV:N/AC:M/Au:N/C:N/I:P/A:N)

References

XREF CWE:693

Plugin Information

Published: 2015/08/22, Modified: 2017/05/16

Plugin Output

tcp/80

The following pages do not use a clickjacking mitigation response header and contain a clickable event :

- <http://192.168.100.5/hca.html>

Synopsis

It is possible to obtain the version number of the remote Apache HTTP server.

Description

The remote host is running the Apache HTTP Server, an open source web server. It was possible to read the version number from the banner.

See Also

<https://httpd.apache.org/>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2010/07/30, Modified: 2019/11/22

Plugin Output

tcp/80

```
URL      : http://192.168.100.5/  
Version  : 2.2.99  
backported : 1
```

43111 - HTTP Methods Allowed (per directory)

Synopsis

This plugin determines which HTTP methods are allowed on various CGI directories.

Description

By calling the OPTIONS method, it is possible to determine which HTTP methods are allowed on each directory.

The following HTTP methods are considered insecure:

PUT, DELETE, CONNECT, TRACE, HEAD

Many frameworks and languages treat 'HEAD' as a 'GET' request, albeit one without any body in the response. If a security constraint was set on 'GET' requests such that only 'authenticatedUsers' could access GET requests for a particular servlet or resource, it would be bypassed for the 'HEAD' version. This allowed unauthorized blind submission of any privileged GET request.

As this list may be incomplete, the plugin also tests - if 'Thorough tests' are enabled or 'Enable web applications tests' is set to 'yes'

in the scan policy - various known HTTP methods on each directory and considers them as unsupported if it receives a response code of 400, 403, 405, or 501.

Note that the plugin output is only informational and does not necessarily indicate the presence of any security vulnerabilities.

See Also

<http://www.nessus.org/u?d9c03a9a>

<http://www.nessus.org/u?b019cbdb>

[https://www.owasp.org/index.php/Test_HTTP_Methods_\(OTG-CONFIG-006\)](https://www.owasp.org/index.php/Test_HTTP_Methods_(OTG-CONFIG-006))

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2009/12/10, Modified: 2019/03/19

Plugin Output

tcp/80

```
Based on the response to an OPTIONS request :
```

- HTTP methods GET HEAD OPTIONS POST TRACE are allowed on :

/

Based on tests of each method :

- HTTP methods ACL BASELINE-CONTROL BCOPY BDELETE BMOVE BPROPFIND
BPROPPATCH CHECKIN CHECKOUT COPY DEBUG DELETE GET HEAD INDEX
LABEL LOCK MERGE MKACTION MKCOL MKWORKSPACE MOVE NOTIFY OPTIONS
ORDERPATCH PATCH POLL POST PROPFIND PROPPATCH PUT REPORT
RPC_IN_DATA RPC_OUT_DATA SEARCH SUBSCRIBE TRACE UNCHECKOUT UNLOCK
UNSUBSCRIBE UPDATE VERSION-CONTROL X-MS-ENUMATTS are allowed on :

/cgi-bin

- HTTP methods GET HEAD OPTIONS POST TRACE are allowed on :

/

- Invalid/unknown HTTP methods are allowed on :

/cgi-bin

Synopsis

A web server is running on the remote host.

Description

This plugin attempts to determine the type and the version of the remote web server.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2000/01/04, Modified: 2019/11/22

Plugin Output

tcp/80

```
The remote web server type is :  
Apache/2.2.21 (Unix) DAV/2
```

24260 - HyperText Transfer Protocol (HTTP) Information

Synopsis

Some information about the remote HTTP configuration can be extracted.

Description

This test gives some information about the remote HTTP protocol - the version used, whether HTTP Keep-Alive and HTTP pipelining are enabled, etc...

This test is informational only and does not denote any security problem.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/01/30, Modified: 2019/11/22

Plugin Output

tcp/80

```
Response Code : HTTP/1.1 200 OK
```

```
Protocol version : HTTP/1.1
```

```
SSL : no
```

```
Keep-Alive : yes
```

```
Options allowed : (Not implemented)
```

```
Headers :
```

```
Date: Mon, 30 Mar 2020 07:55:56 GMT
Server: Apache/2.2.21 (Unix) DAV/2
Content-Length: 293
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=ISO-8859-1
```

```
Response Body :
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<html>
<head>
  <title>Index of /</title>
</head>
<body>
<h1>Index of /</h1>
<ul><li><a href="cgi-bin/"> cgi-bin/</a></li>
<li><a href="favicon.ico"> favicon.ico</a></li>
<li><a href="hca.html"> hca.html</a></li>
```

```
</ul>  
</body></html>
```

Synopsis

The remote web server does not take steps to mitigate a class of web application vulnerabilities.

Description

The remote web server in some responses sets a permissive Content-Security-Policy (CSP) frame-ancestors response header or does not set one at all.

The CSP frame-ancestors header has been proposed by the W3C Web Application Security Working Group as a way to mitigate cross-site scripting and clickjacking attacks.

See Also

<http://www.nessus.org/u?55aa8f57>

<http://www.nessus.org/u?07cc2a06>

<https://content-security-policy.com/>

<https://www.w3.org/TR/CSP2/>

Solution

Set a non-permissive Content-Security-Policy frame-ancestors header for all requested resources.

Risk Factor

None

Plugin Information

Published: 2010/10/26, Modified: 2018/11/15

Plugin Output

tcp/80

```
The following pages do not set a Content-Security-Policy frame-ancestors response header or set a permissive policy:
```

- <http://192.168.100.5/>
- <http://192.168.100.5/cgi-bin/vuln.cgi>
- <http://192.168.100.5/hca.html>

Synopsis

The remote web server does not take steps to mitigate a class of web application vulnerabilities.

Description

The remote web server in some responses sets a permissive X-Frame-Options response header or does not set one at all.

The X-Frame-Options header has been proposed by Microsoft as a way to mitigate clickjacking attacks and is currently supported by all major browser vendors

See Also

<https://en.wikipedia.org/wiki/Clickjacking>

<http://www.nessus.org/u?399b1f56>

Solution

Set a properly configured X-Frame-Options header for all requested resources.

Risk Factor

None

Plugin Information

Published: 2010/10/26, Modified: 2017/05/16

Plugin Output

tcp/80

```
The following pages do not set a X-Frame-Options response header or set a permissive policy:
```

- <http://192.168.100.5/>
- <http://192.168.100.5/cgi-bin/vuln.cgi>
- <http://192.168.100.5/hca.html>

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2020/03/02

Plugin Output

tcp/22

```
Port 22/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2020/03/02

Plugin Output

tcp/80

```
Port 80/tcp was found to be open
```

Synopsis

This plugin displays information about the Nessus scan.

Description

This plugin displays, for each tested host, information about the scan itself :

- The version of the plugin set.
- The type of scanner (Nessus or Nessus Home).
- The version of the Nessus Engine.
- The port scanner(s) used.
- The port range scanned.
- Whether credentialed or third-party patch management checks are possible.
- The date of the scan.
- The duration of the scan.
- The number of hosts scanned in parallel.
- The number of checks done in parallel.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2005/08/26, Modified: 2019/12/03

Plugin Output

tcp/0

```
Information about this scan :  
  
Nessus version : 8.9.1  
Plugin feed version : 202003280100  
Scanner edition used : Nessus Home  
Scan type : Normal  
Scan policy used : Web Application Tests  
Scanner IP : 192.168.100.4  
Port scanner(s) : nessus_syn_scanner  
Port range : default  
Thorough tests : no  
Experimental tests : no  
Paranoia level : 1
```



```
Report verbosity : 1
Safe checks : yes
Optimize the test : yes
Credentialed checks : no
Patch management checks : None
CGI scanning : enabled
Web application tests : enabled
Web app tests - Test mode : single
Web app tests - Try all HTTP methods : no
Web app tests - Maximum run time : 5 minutes.
Web app tests - Stop at first flaw : CGI
Max hosts : 30
Max checks : 4
Recv timeout : 5
Backports : Detected
Allow post-scan editing: Yes
Scan Start Date : 2020/3/30 3:55 EDT
Scan duration : 43 sec
```

Synopsis

The remote web server hosts linkable content that can be crawled by Nessus.

Description

The remote web server contains linkable content that can be used to gather information about a target.

See Also

<http://www.nessus.org/u?5496c8d9>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2016/06/24, Modified: 2016/06/24

Plugin Output

tcp/80

```
The following sitemap was created from crawling linkable content on the target host :
```

- <http://192.168.100.5/>
- <http://192.168.100.5/cgi-bin/vuln.cgi>
- <http://192.168.100.5/favicon.ico>
- <http://192.168.100.5/hca.html>

```
Attached is a copy of the sitemap file.
```

Synopsis

It is possible to enumerate directories on the web server.

Description

This plugin attempts to determine the presence of various common directories on the remote web server. By sending a request for a directory, the web server response code indicates if it is a valid directory or not.

See Also

<http://projects.webappsec.org/w/page/13246953/Predictable%20Resource%20Location>

Solution

n/a

Risk Factor

None

References

XREF OWASP:OWASP-CM-006

Plugin Information

Published: 2002/06/26, Modified: 2018/11/15

Plugin Output

tcp/80

```
The following directories were discovered:  
/cgi-bin
```

```
While this is not, in and of itself, a bug, you should manually inspect  
these directories to ensure that they are in compliance with company  
security standards
```

Synopsis

The remote server is running with WebDAV enabled.

Description

WebDAV is an industry standard extension to the HTTP specification.

It adds a capability for authorized users to remotely add and manage the content of a web server.

If you do not use this extension, you should disable it.

Solution

<http://support.microsoft.com/default.aspx?kbid=241520>

Risk Factor

None

Plugin Information

Published: 2003/03/20, Modified: 2011/03/14

Plugin Output

tcp/80