

New issue

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There is a File upload vulnerability that can getshell #47

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lavon321 commented on Sep 21, 2020 • edited

The file upload vulnerability here lies in the blacklist method used when verifying the suffix of the uploaded file. This verification method is not strict and is often bypassed by attackers in various ways

The PluginsUpload method in the application\service\PluginsAdminService.php file has a file creation operation, in which the input of the file_put_contents function is controllable

```
1087 if($is_has_find == false){
1088     {
1089         continue;
1090     }
1091 }
1092 // 获取文件路径:
1093 $file_path = substr($file, 0, strrpos($file, '/'));
1094 // 路径不存在则创建:
1095 \base\FileUtil::CreateDir($file_path);
1096 // 如果不是黑名单则写入文件:
1097 if(!is_dir($file)){
1098     {
1099         // 读取这个文件:
1100         $file_size = zip_entry_filesize($temp_resource);
1101         $file_content = zip_entry_read($temp_resource, $file_size);
1102         file_put_contents($file, $file_content);
1103     }
1104 }
1105 // 关闭资源流:
1106 zip_entry_close($temp_resource);
1107 }
```

Line 1072 checks the file suffix name, here is the blacklist

```
1060 $is_has_find = false;
1061 foreach($dir_list as $dir_key=>$dir_value){
1062     {
1063         if(strpos($file, $dir_key) != false){
1064             {
1065                 // 仅保留系统支持php文件:
1066                 if($dir_key != '_controller_'){
1067                     {
1068                         // 排除黑名单文件:
1069                         $pos = strpos($file, '.');
1070                         if($pos != false){
1071                             {
1072                                 if(in_array(substr($file, $pos), self::$exclude_ext)){
1073                                     {
1074                                         continue;
1075                                     }
1076                                 }
1077                             }
1078                         }
1079                     }
1080                     // 匹配成功文件路径处理, 跳出循环:
1081                     $file = str_replace($plugins_name, $dir_key, $dir_value.$file);
1082                     $is_has_find = true;
1083                     break;
1084                 }
1085             }
1086         }
1087     }
1088 }
```

The value in the private static variable \$exclude_ext is '.php', which can easily be bypassed

```
15 use app\service\SqlconsoleService;
16
17 /**
18  * 应用管理模块
19  * @author Devil
20  * @blog http://gong.gg/
21  * @version 1.6.0
22  * @datetime 2016-12-01T21:51:08+0800
23  */
24 class PluginsAdminService
25 {
26     // 排除不能使用的名称:
27     public static $plugins_exclude_verification = ['view', 'shopxo', 'www'];
28     // 排除的文件后缀:
29     private static $exclude_ext = ['.php'];
30
31     /**
32      * 列表:
33      * @author Devil
34      * @blog http://gong.gg/
35      * @version 1.6.0
36      * @date 2018-09-29
37      */
```

There are many ways to bypass the blacklist verification of suffix names. Taking my local Windows system environment as an example, you can upload file names that do not conform to the Windows file naming rules

```
shell.php::$DATA
shell.php::$DATA.....
shell.php.
shell.php(空格)
shell.php:1.jpg
```

```

1084 // 是否有匹配到期望定义函数通过
1085 if($is_has_find == false){
1086     continue;
1087 }
1088 // 仅读取器提供文件php文件:
1089 if($dir_key != "_controller_"){
1090     // 排除后缀文件:
1091     $pos = strpos($file, ".");
1092     if($pos == false){
1093         if(in_array(substr($file, $pos, self::$exclude_ext)){
1094             continue;
1095         }
1096     }
1097 }
1098 // 匹配成功文件路径处理、输出循环:
1099 $file = str_replace($plugins_name.'/'.$dir_key.'/'.$, '', $dir_value.$file);
1100 $is_has_find = true;
1101 break;

```

```

1047 // 应用需要存在 |
1048 $ret = self::PluginsExist($plugins_name);
1049 if($ret['code'] != 0) {
1050     [
1051         zip_entry_close($temp_resource);
1052         return $ret;
1053     ]

```

```

194         public function Upload() {
195             {
196                 // 是否ajax
197                 if (!IS_AJAX) {
198                     {
199                         return $this->error('非法访问');
200                     }
201                 }
202                 // 开始处理
203                 return PluginsAdminService::PluginsUpload(input());
204             }
205         }

```

2.zip

归档文件(A) 编辑 (E) 视图 (V) 帮助 (H)

📁 打开 ▾ 📁 解压缩 📁 📁 🔍

← → ↑ 📁 位置(L): C:\

名称	大小	类型	修改日期
📁 _uploadfile_	24 字节	文件夹	2020年9月14日 19:...

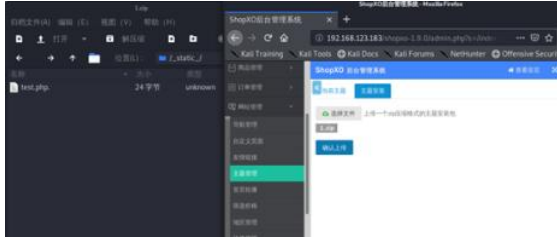
PHP Version 7.3.4		
System	Windows NT WIN-FB-1CE72H1Z1 10.0 build 19041 (Windows 10) AMD64	
Built Date	Apr 2 2019 21:30:57	
Compiler	Msvc15 Visual C++ v 15.7	
Architecture	x64	
Configure Command	script /nologo configure --enable-snmpopt-build --enable-debug-pack --disable-cli --with-pdo-com=snmp-buildflags,unixshared,intentions,12,TalkShare --with-curl=/c:/w/php-win/buildflags,unixshared,intentions,12,TalkShare --enable-object-out-dir=./obj --enable-com-dotnet-shared --without-assertion --with-gps	
Server API	Cgi/FastCGI	
Virtual Directory Support	disabled	
Configuration File (php.ini) Path	C:\WINDOWS	
Loaded Configuration File	D:\httpstudy_php\extensions\php\php_7.3.4\etc\php.ini	
Scan this dir for additional .ini files	(none)	
Additional .ini files parsed	(none)	
PHP API	20180731	
PHP Extension	20180731	
Zend Extension	320180731	
Zend Extension Build	API20180731.NTVC15	
PHP Extension Build	API20180731.NTVC15	
Debug Build	n/c	

```

23 class ThemeService
24 {
25     // 静态目录和html目录
26     private static string _path = "application".DS."index".DS."view".DS;
27     private static string _static_path = "public".DS."static".DS."index".DS;
28
29     // 删除的文件后缀
30     private static string[] _exclude_ext = { ".php" };
31
32     /**
33      * 获取模板列表
34      * @author Devil
35      * @blog http://gong.gg/
36      * @version 0.0.1

```

After logging in to the system, upload the zip archive at the site management -> theme management -> theme installation



PHP Version	7.3.4
System	Windows NT Workstation [x64] 10.0 build 19041 (Windows 10; AMD64)
Build Date	Apr 2 2019 21:50:57
Compiler	Msvc15 Visual C++ 2017
Architecture	x64
Configure Command	script\phpize configure --enable-openssl-build --enable-debug-pack --disable-cr --with-pdo=ext\pdo_oci --with-mysql=mysqlnd --with-zlib-dir=/usr/include --with-xmlrpc=ext\xmlrpc --with-sqlite3=/usr/local/opt/sqlite/bin --with-gmp --enable-cli --enable-shmop --enable-dtrace=shared --without-analyzer --with-igmp
Server API	CSDI Apache2
Virtual Directory Support	disabled
Configuration File (php.ini) Path	C:\WINDOWS
Loaded Configuration File	D:\httpd\bin\extras\windows\php7.3\etc\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20180731
PHP Extension	20180731
Zend Extension	320180731
Zend Extension Build	API(20180731)/NTSVC15
PHP Extension Build	API(20180731)/NTSVC15
Debug Build	no

No one assigned

None yet

None yet

No milestone

No branches or pull requests