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## ESPCMS-P8 / Arbitrary code execution vulnerability exists in ESPCMS management system.md



JeakinsCheung Update Arbitrary code execution vulnerability exists in ESPCMS m... ..

[History](#)

1 contributor

58 lines (22 sloc) | 2.38 KB

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## Arbitrary code execution vulnerability exists in ESPCMS management system

### Vulnerability description:

The vulnerability modifies the content of the homepage template file in the background, and after modification, a PHP suffix file with the same content will be generated. When the frontend accesses the homepage file, local code execution will be triggered.

**Supplier:** <https://www.ecisp.cn/>

### Vulnerability file:

espcms\espcms\_public\espcms\_templates\ESPCMS\_Templates.php

### Code Analysis:

The code execution function eval is called in line 165. The content obtained by the \$out variable is the content of the template file. The \$fetch\_filename parameter in line 84 is actually the address of the template file. In line 90, it is simply obtained with the file\_get\_contents() function. The contents of the template file are then assigned to \$out.

espcms\espcms\_public\espcms\_templates\ESPCMS\_Templates.php

```

155         }
156     } else {
157         if ($isceart_html) {
158             ob_start();
159             @eval('?' . '>' . trim($out));
160             $content = ob_get_contents();
161             ob_end_clean();
162             ob_end_flush();
163             return $this->cachefwrite($htm_filename, $content);
164         } else {
165             @eval('?' . '>' . trim($out));
166         }
167     }
168 }
169
170 private function format_js($str) {

```

```

81 } elseif (!is_dir($this->html_compile_dir) && $isceart_html) {
82     return false;
83 }
84 $fetch_filename = $this->templates_themss_dirname . $templates_filenames . $this->templatesfileex;
85 if (!file_exists($templates_filename) && !$isceart_html) {
86     espcms_message_err( message_code: 'public_pack-espcms-templates_filename_err', array($fetch_filename));
87 } elseif (!file_exists($templates_filename) && $isceart_html) {
88     return false;
89 }
90 $out = $this->fetch($fetch_filename, $cache_fileid);
91 if (strpos($out, $this->link_hash)) {
92     $includefile = explode($this->link_hash, $out);

```

This function is a function to modify the content of the template file. There are user-controllable input parameters in line 174, and the content is written to the template file in line 211.

espcms\espcms\_admin\control\TemplateFile.php

```

171 if (empty($open_file)) {
172     espcms_public_dialog( domid_name: 'espcms_public_dialog', message_code: 'public_pa
173 }
174 $content = $_POST['content'];
175 if (empty($content)) {
176     espcms_public_dialog( domid_name: 'espcms_public_dialog', message_code: 'public_pa
177 }
178 $template_dir_name = ESPCMS_Core::get_skin($open_type, return_key: 'skin_code');
179 $templates_dir = ESPCMS_FILE_ROOT . 'templates/' . $template_dir_name . '/';
180 $edit_file = $templates_dir . $open_path . '/' . $open_file;
181 $edit_path = $templates_dir . $open_path . '/';

```

```

201 $copy_file = $edit_path . $filename . '.' . $file_inof;
202 $content = stripslashes($content);
203 $install_id = ESPCMS_FileTool::writeFile($copy_file, $content);
204 if (!$install_id) {
205     espcms_public_dialog( domid_name: 'espcms_public_dialog', message_code: 'templates_pack-espcms_templates_
206 }
207 espcms_log_install( message_code: 'templates_pack-espcms_templates_file_button_copy', extras_message: $filename
208 espcms_public_dialog( domid_name: 'espcms_info_save_ok', message_code: 'templates_pack-espcms_templates_file_
209 } elseif ($saveType == 'edit') {
210     $content = stripslashes($content);
211     $update_id = ESPCMS_FileTool::writeFile($edit_file, $content);
212     if (!$update_id) {
213         espcms_public_dialog( domid_name: 'espcms_public_dialog', message_code: 'templates_pack-espcms_templates_
214     }
215     espcms_log_install( message_code: 'templates_pack-espcms_templates_file_button_edit', extras_message: $open_pat
216     espcms_public_dialog( domid_name: 'espcms_info_save_ok', message_code: 'templates_pack-espcms_templates_file_

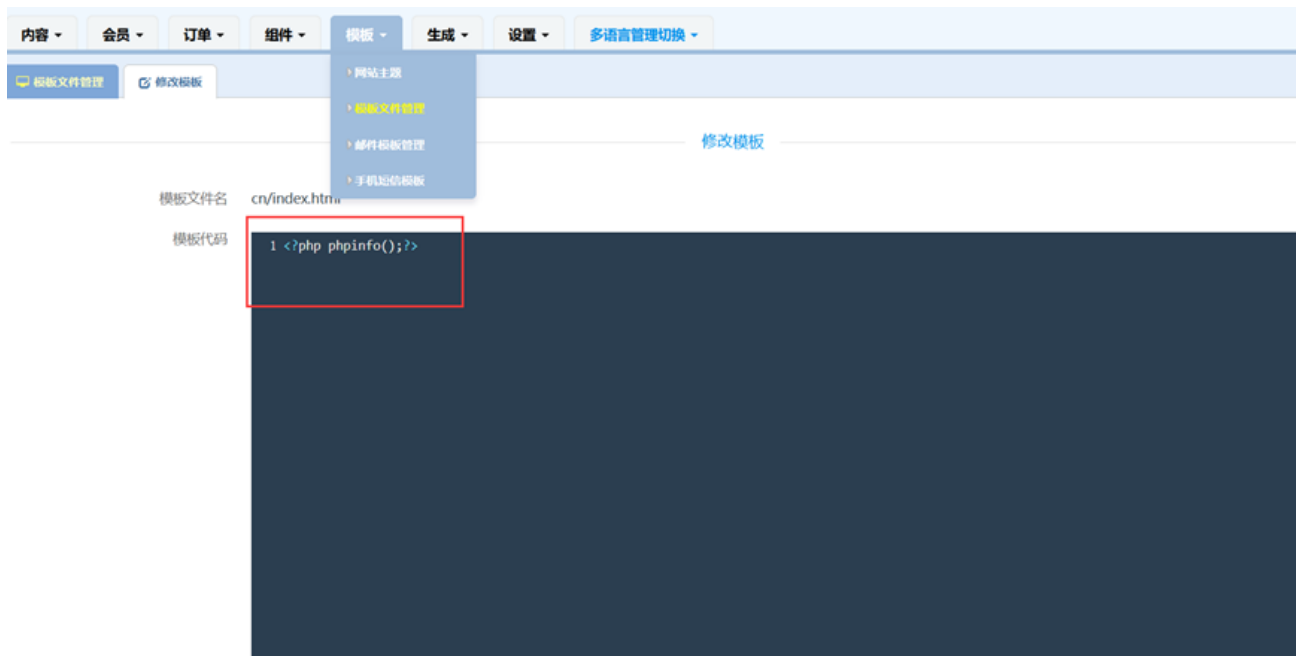
```

## Steps to reproduce:

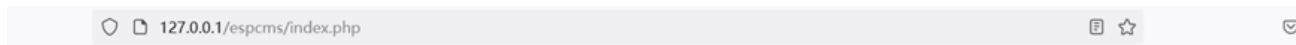
- \1. Log in to the background management page as an administrator
- \2. Click Template Management -> Modify and change the content to

The screenshot shows the ESPCMS P8 background management interface. The top navigation bar includes links for '管理主页', '密码修改', '缓存管理', '网站设置', '帮助手册', '在线交流', and '关于软件'. The main menu on the left has tabs for '内容', '会员', '订单', '组件', '模板', '生成', '设置', and '多语言管理切换'. The '模板' (Template) tab is selected, and a dropdown menu is open showing options: '网站主题', '模板文件管理', '邮件模板管理', and '手机端的模板'. The '模板文件管理' option is highlighted. Below the menu, there is a table with columns: '模板名称', '模板类型', '添加时间', '修改时间', and '操作'. The table lists several templates, including 'article', 'bbs', 'form', 'lib', 'member', 'public', and 'index.html'. The 'index.html' row is highlighted, and the '修改' (Modify) button is highlighted in the '操作' column.

模板名称	模板类型	添加时间	修改时间	操作
article	dir	22-06-08 16:18	22-06-02 15:18	
bbs	dir	22-06-08 14:52	22-06-02 15:18	
form	dir	22-06-08 14:52	22-06-02 15:18	
lib	dir	22-06-08 14:52	22-06-02 15:18	
member	dir	22-06-08 14:52	22-06-02 15:18	
public	dir	22-06-08 14:52	22-06-02 15:18	
index.html	html	22-06-08 17:27	22-06-08 17:27	修改 复制 删除



\3. After the modification is successful, save it, and access the home page to cause the code to execute.



PHP Version 5.3.29	
System	Windows NT DESKTOP-6T01E3N 6.2 build 9200 (Unknow Windows version Home Premium Edition) i586
Build Date	Aug 15 2014 19:01:45
Compiler	MSVC9 (Visual C++ 2008)
Architecture	x86
Configure Command	cscrip /nologo configure.js --enable-snapshot-build* --enable-debug-pack* --disable-zts* --disable-isapi* --disable-nsapi* --without-mssql* --without-pdo-mssql* --without-pi3web* --with-pdo-oci=C:\php-sdk\oracle\instantclient10\sdk,shared* --with-oci8=C:\php-sdk\oracle\instantclient10\sdk,shared* --with-oci8-11g=C:\php-sdk\oracle\instantclient11\sdk,shared* --with-oc8=shared* --enable-object-out-dir=../obj/* --enable-com-dotnet=shared* --with-mcrypt=static* --disable-static-analyze*
Server API	CGI/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	C:\windows
Loaded Configuration File	D:\phpstudy_pro\Extensions\php\php5.3.29nts\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20090626
PHP Extension	20090626
Zend Extension	220090626