BUUCTF Warmup Writeup

原创

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分类专栏： web

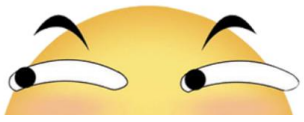
本文链接：https://blog.csdn.net/zgwz123456/article/details/111660141

点击链接进来我们发现一个大大的邪恶的笑脸
常规操作先查看源代码

```
<!DOCTYPE html>
<html lang="en">
▶ <head>…</head>
••• ▼ <body> == $0
    <!--source.php-->
    <br>
    <img src="https://i.loli.net/2018/11/01/5bdb0d93dc794.jpg">
  </body>
</html>
```


发现有一个提示，提示我们有一个source.php，应该是个源代码，我们进去看一下

```
<?php
    highlight_file(__FILE__);
    class emmm
    {
        public static function checkFile(&$page)
        {
            $whitelist = ["source"=>"source.php","hint"=>"hint.php"];
            if (! isset($page) || !is_string($page)) {
                echo "you can't see it";
                return false;
            }

            if (in_array($page, $whitelist)) {
                return true;
            }

            $_page = mb_substr(
                $page,
                0,
                mb_strpos($page . '?', '?')
            );
            if (in_array($_page, $whitelist)) {
                return true;
            }

            $_page = urldecode($page);
            $_page = mb_substr(
                $_page,
                0,
                mb_strpos($_page . '?', '?')
            );
            if (in_array($_page, $whitelist)) {
                return true;
            }
            echo "you can't see it";
            return false;
        }
    }

    if (! empty($_REQUEST['file'])
        && is_string($_REQUEST['file'])
        && emmm::checkFile($_REQUEST['file'])
    ) {
        include $_REQUEST['file'];
        exit;
    } else {
        echo "<br><img src=\"https://i.loli.net/2018/11/01/5bdb0d93dc794.jpg\" />";
    }
?>
```



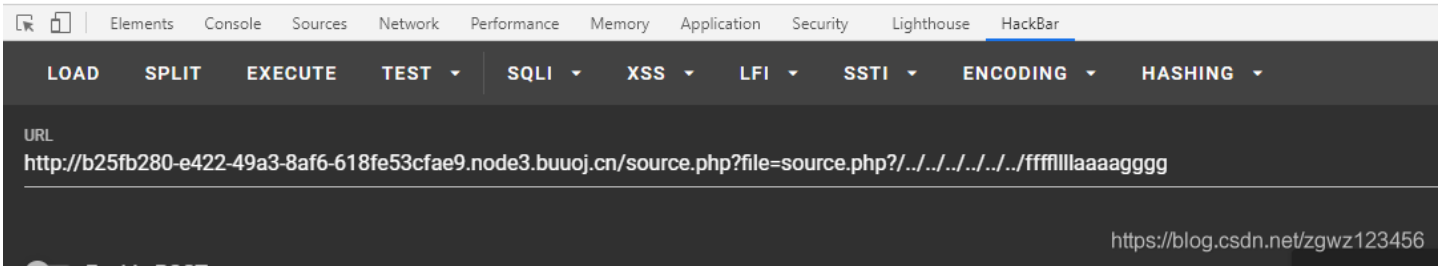
这是一段对我们传的file参数的过滤

```php
<?php
        highlight_file(__FILE__);
        class  emmm
        {
                public  static  function  checkFile(&$page)
                {
                        $whitelist  =  ["source"=>"source.php","hint"=>"hint.php"];
                        if  (!  isset($page)  ||  !is_string($page))  {
                                echo  "you  can't  see  it";
                                return  false;
                        }

                        if  (in_array($page,  $whitelist))  {
                                return  true;
                        }

                        $_page  =  mb_substr(
                                $page,
                                0,
                                mb_strpos($page  .  '?',  '?')
                        );
                        if  (in_array($_page,  $whitelist))  {
                                return  true;
                        }

                        $_page  =  urldecode($page);
                        $_page  =  mb_substr(
                                $_page,
                                0,
                                mb_strpos($_page  .  '?',  '?')
                        );
                        if  (in_array($_page,  $whitelist))  {
                                return  true;
                        }
                        echo  "you  can't  see  it";
                        return  false;
                }
```


他首先建立一个白名单，白名单内包含了source.php和hint.php，
第一个判断是如果我们传的file参数为空或者不是字符串就返回false
第二个if判断所传的参数是否在白名单内，如果是则返回正确，不是则进行下一步判断
然后利用mb_substr函数对我们的参数相对于？问号进行分割
再判断参数是否在白名单内
这里我们会用到任意文件包含漏洞
我们需要构造一个payload file=source.php?/…/…/…/…/…/…/fffflllaaaagggg

```php
        if  (!  empty($_REQUEST['file'])
                &&  is_string($_REQUEST['file'])
                &&  emmm::checkFile($_REQUEST['file'])
        )  {
                include  $_REQUEST['file'];
                exit;
        }  else  {
                echo  "<br><img  src=\"https://i.loli.net/2018/11/01/5bdb0d93dc794.jpg\"  />";
        }
?>
```

flag{7641ddd0-d609-4b89-b6fa-b0485757c22f}



这样我们就得到了flag