




攻防世界 WEB题 cat writeup

原创

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[打开题目](#)

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Cloud Automated Testing

输入你的域名，例如：loli.club

输入baidu.com

Cloud Automated Testing

输入你的域名，例如：loli.club

页面毫无反应，但是发现，输入百度的ip时，有不一样

Cloud Automated Testing

输入你的域名，例如：loli.club

```
PING 220.181.38.148 (220.181.38.148) 56(84) bytes of data.
```

```
--- 220.181.38.148 ping statistics ---
```

```
1 packets transmitted, 0 received, 100% packet loss, time 0ms
```

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页面执行了ping命令并返回，说明页面有命令执行的功能，想到尝试命令拼接执行和使用管道进行命令执行

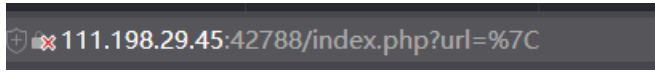
输入你的域名，例如：loli.club

Invalid URL

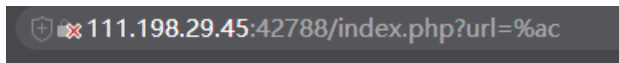
输入你的域名，例如：loli.club

Invalid URL

发现都报错，应该是系统对字符进行了过滤
输入 | 发现被编码成了%7c



尝试宽字节输入，将7改为a



提交

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<meta name="robots" content="NONE,NOARCHIVE">
<title>UnicodeEncodeError at /api/ping</title>
<style type="text/css">
html * { padding: 0; margin: 0; }
body * { padding: 10px 20px; }
body * * { padding: 0; }
body { font: small sans-serif; }
body>div { border-bottom: 1px solid #ddd; }
h1 { font-weight: normal; }
h2 { margin-bottom: .8em; }
h2 span { font-size: 80%; color: #666; font-weight: normal; }
h3 { margin: 1em 0 .5em 0; }
h4 { margin: 0 0 .5em 0; font-weight: normal; }
code, pre { font-size: 100%; white-space: pre-wrap; }
table { border: 1px solid #ccc; border-collapse: collapse; width: 100%; background: white; }
tbody td, tbody th { vertical-align: top; padding: 2px 3px; }
thead th {
padding: 1px 6px 1px 3px; background: #fefe; text-align: left;
font-weight: normal; font-size: 11px; border: 1px solid #ddd;
}
tbody th { width: 12em; text-align: right; color: #666; padding-right: .5em; }
table.vars { margin: 5px 0 2px 40px; }
table.vars td, table.req td { font-family: monospace; }
table td.code { width: 100%; }
table td.code pre { overflow: hidden; }
table.source th { color: #666; }
table.source td { font-family: monospace; white-space: pre; border-bottom: 1px solid #eee; }
ul.traceback { list-style-type: none; color: #222; }
ul.traceback li.frame { padding-bottom: 1em; color: #666; }
ul.traceback li.user { background-color: #f0f0f0; color: #000; }
div.context { padding: 10px 0; overflow: hidden; }
div.context ol { padding-left: 30px; margin: 0 10px; list-style-position: inside; }
div.context ol li { font-family: monospace; white-space: pre; color: #777; cursor: pointer; padding-left: 2px; }
div.context ol li pre { display: inline; }
div.context ol.context-line li { color: #505050; background-color: #f0f0f0; padding: 3px 2px; }
div.context ol.context-line li span { position: absolute; right: 32px; }
.user div.context ol li { background-color: #bbb; color: #000; }
.user div.context ol li { color: #666; }
div.commands { margin-left: 40px; }
div.commands a { color: #555; text-decoration: none; }
.user div.commands a { color: black; }
```

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页面报错，复制下来，打开，发现是django报错页面

UnicodeEncodeError at /api/ping

'gbk' codec can't encode character u'\ufffd' in position 0: illegal multibyte sequence

```
Request Method: POST
Request URL: http://127.0.0.1:8000/api/ping
Django Version: 1.10.4
Exception Type: UnicodeEncodeError
Exception Value: 'gbk' codec can't encode character u'\ufffd' in position 0: illegal multibyte sequence
Exception Location: /opt/api/dnsapi/utlils.py in escape, line 9
Python Executable: /usr/bin/python
Python Version: 2.7.12
Python Path:
['/opt/api',
'/usr/lib/python2.7',
'/usr/lib/python2.7/plat-x86_64-linux-gnu',
'/usr/lib/python2.7/lib-tk',
'/usr/lib/python2.7/lib-old',
'/usr/lib/python2.7/lib-dynload',
'/usr/local/lib/python2.7/dist-packages',
'/usr/lib/python2.7/dist-packages']

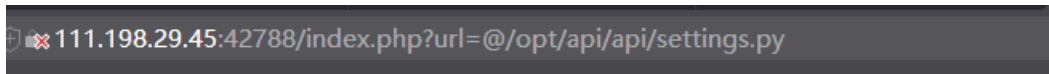
Server time: Fri, 25 Oct 2019 12:06:32 +0000
```

Unicode error hint

The string that could not be encoded/decoded was: ❖

发现文件的绝对路径是/opt/api

接下来就是django的基础知识了：django项目下一般有个settings.py文件是设置网站数据库路径且django项目生成时settings.py会存放在以项目目录下再以项目名称命名的文件夹下面，查看settings.py



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body * { padding: 10px 20px; }
body * * { padding: 0; }
body { font: small sans-serif; }
body>div { border-bottom: 1px solid #ddd; }
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padding: 1px 6px 1px 3px; background: #fefefe; text-align: left;
font-weight: normal; font-size: 11px; border: 1px solid #ddd;
}
tbody th { width: 12em; text-align: right; color: #666; padding-right: .5em; }
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.user div.context ol.context-line li { background-color: #bbb; color: #000; }
.user div.context ol li { color: #666; }
```

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同样，以html文件打开，通过观察发现敏感信息

CACHE_MIDDLEWARE_SECONDS	600
CSRF_COOKIE_AGE	31449600
CSRF_COOKIE_DOMAIN	None
CSRF_COOKIE_HTTPONLY	False
CSRF_COOKIE_NAME	u'csrftoken'
CSRF_COOKIE_PATH	u'/'
CSRF_COOKIE_SECURE	False
CSRF_FAILURE_VIEW	u'django.views.csrf.csrf_failure'
CSRF_HEADER_NAME	u'HTTP_X_CSRFTOKEN'
CSRF_TRUSTED_ORIGINS	[]
DATABASES	{'default': {'ATOMIC_REQUESTS': False, 'AUTOCOMMIT': True, 'CONN_MAX_AGE': 0, 'ENGINE': 'django.db.backends.sqlite3', 'HOST': '', 'NAME': '/opt/api/database.sqlite3', 'OPTIONS': {}, 'PASSWORD': u'*****', 'PORT': '', 'TEST': {'CHARSET': None, 'COLLATION': None, 'MIRROR': None, 'NAME': None}, 'TIME_ZONE': None, 'USER': ''}}
DATABASE_ROUTERS	[]
DATA_UPLOAD_MAX_MEMORY_SIZE	2621440
DATA_UPLOAD_MAX_NUMBER_FIELDS	1000

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查看该文件

