全部课程 (/courses/) / Python打造漏洞扫描器 (/courses/761) / 自动生成网页报告

在线实验,请到PC端体验

扫描器之自动生成网页报告

一、实验介绍

1.1 实验内容

前面我们写了很多功能模块,信息都是输出到控制台上的,有时候信息多了的时候根本看不过来,我们这节课做的就是将结果存储下来写到文件,然后写个网页生成器来自动生成网页报告。

最后结果是这样哒,是不是感觉酷酷的?

W8ayscan Report

title	content
cdn	www.shiyanlou.com Nodes:24 IP(1):115.29.233.149
PortScan	115.29.233.149:512 Close 115.29.233.149:513 Close 115.29.233.149:5900 Close 115.29.233.149:9990 Close 115.29.233.149:9999 Close 115.29.233.149:999 Close 115.29.233.149:292 Close 115.29.233.149:22 Close 115.29.233.149:23 Close 115.29.233.149:23 Close 115.29.233.149:25 Close 115.29.233.149:2604 Close 115.29.233.149:672 Close 115.29.233.149:672 Close 115.29.233.149:672 Close 115.29.233.149:680 Close 115.29.233.149:600 Close 115.29.233.149:600 Close 115.29.233.149:600 Close 115.29.233.149:10050 Close 115.29.233.149:3389 Close

1.2 实验知识点

• 数据收集与输出

1.3 实验环境

- Python2.7
- Xfce终端
- Sublime

1.4 适合人群

本课程难度为一般,属于初级级别课程,适合具有Python基础的用户,熟悉python基础知识加深巩固。

1.5 代码获取

- \$ wget http://labfile.oss.aliyuncs.com/courses/761/shiyanlouscan9.zip
- \$ unzip shiyanlouscan9.zip

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开始实验

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二、实验内容

2.1 定义结果输出类

我们需要创建一个结果输出类,用这个类来收集数据,输出数据,并且可以写到hmtl中生成网页报告。

定义一个 ouputer 类

类中我们定义几个函数即可:

class outputer

def add(self,key,data):通过字典方式添加数据

def add_list(self,key,data): 通过列表方式添加数据

def get(self,key):获取某个数据

def show(self):显示加入的数据

def build_html(self,name):生成网页 name为保存的文件名

2.2 完整代码

类中实列一个变量,因为类定义的时候实例化的变量是不会改变的。 完整代码:

```
import sys
reload(sys)
sys.setdefaultencoding('utf-8')
class outputer:
   data = \{\}
   def get(self,key):
       if key in self.data:
          return self.data[key]
       return None
   def add(self.kev.data):
      self.data[key] = data
   def add_list(self,key,data):
       if key not in self.data:
          self.data[key] = []
       self.data[key].append(data)
   def show(self):
       for key in self.data:
          print "%s:%s"%(key,self.data[key])
   def _build_table(self):
      _str = ""
       for key in self.data:
          if isinstance(self.data[key],list):
             _td = ""
             for key2 in self.data[key]:
                _td += key2 + '</br>'
             _str += "%s%s"%(key,_td)
             _str += "%s"%(key,self.data[key])
       return _str
   def build_html(self,filename):
      html_head = ''
       <!DOCTYPE html>
<html lang="zh-CN">
 <head>
    <meta charset="gbk">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>W8ayscan Report</title>
<link rel="stylesheet" href="https://cdn.bootcss.com/bootstrap/3.3.7/css/bootstrap.min.css" integrity="sha384</pre>
-BVYiiSIFeK1dGmJRAkycuHAHRg320mUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">
   <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->
   <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
    <!--[if lt IE 9]>
     <script src="https://cdn.bootcss.com/html5shiv/3.7.3/html5shiv.min.js"></script>
      <script src="https://cdn.bootcss.com/respond.js/1.4.2/respond.min.js"></script>
    <![endif]-->
 </head>
 <body>
<div class="container container-fluid">
    <div class="row-fluid">
        <div class="span12">
           <h3 class="text-center">
               W8ayscan Report
           </h3>
           </BR>
           <thead>
                   title
                       content
                       </thead>
               <sup>ody></sup> 动手实践是学习 IT 技术最有效的方式!
build_html_w8ayScan
                                                                    开始实验
```

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保存在 /lib/core/outputer.py。

2.3 使用方法

在需要的地方

```
from lib.core import outputer
output = outputer.outputer()
```

来初始化,通过 output.add() 或者 output.add_list() 加入数据,

在功能模块中显示数据的地方将数据添加进来即可。

比如这是 w8ay.py 中的。

```
from lib.core import webcms,PortScan,common,webdir,fun_until,outputer

reload(sys)
sys.setdefaultencoding('utf-8')
def main():
    root = "https://www.shiyanlou.com/"
    threadNum = 10
    output = outputer.outputer()
    # CDN Check
    print "CDN check...."
    msg,iscdn = fun_until.checkCDN(root)
    output.add("cdn",msg)
```

但是数据打印出来的地方都是在每个功能模块的内部实现的,所以我们要在每个功能模块中类似加入。是的,每个。。。

web敏感文件扫描模块加入

```
def test_url(self):
    while not self.task.empty():
        url = self.task.get()
        s_code = self.checkdir(url)
        if s_code!=404:
            self.s_list.append(url)
            output.add_list("Web_Path",url)
        print "Testing: %s status:%s"%(url,s_code)yanlou.com
```

端口扫描中加入

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等等。。 只要是功能模块输出的地方全部加上这个类,爬虫插件里面也要加上。

最后,在主调度程序每调用完一个程序后生成一次html。

```
print "[Error]:CDN check error"
   if iscdn:
       ip = common.gethostbyname(root)
       print "IP:",ip
       print "START Port Scan:"
       pp = PortScan.PortScan(ip)
       pp.work()
       output.build_html(domain)
   dd = webdir.webdir(root,threadNum)
   dd.work()
   dd.output()
   output.build_html(domain)
   ww = webcms.webcms(root,threadNum)
   ww.run()
   output.build_html(domain)
   w8 = SpiderMain(root,threadNum)
   w8.craw()
if __name__ == '__main__':
   main()
```

扫描器运行截图

```
unloadtest.html status:404
Testing: https://www.shiyanlou.com//admin/fileupload.html status:404
Testing: https://www.shiyanlou.com//admin/getpio.htm status:484
Testing: https://www.shiyanlou.com//admin/getpic.htm status:484
Testing: https://www.shiyanlou.com//admin/htmledit/Example/NewsSystem/readme.txt
 status:404
Testing: https://www.shiyanlou.com//admin/htmledit/U2.80修正版说明.txt status:0
Testing: https://www.shiyanlou.com//admin/htmleditor/ewebeditor.htm status:404
Testing: https://www.shiyanlou.com//admin/index.html status:404
Testing: https://www.shiyanlou.com//admin/login.asa status:404
Testing: https://www.shiyanlou.com//admin/login.html status:404
Testing: https://www.shiyanlou.com//admin/manage.htm status:404
Testing: https://www.shiyanlou.com//admin/shopbackup.asa status:404
Testing: https://www.shiyanlou.com//admin/systemfile.html status:404
Testing: https://www.shiyanlou.com//admin/test.txt status:404
Testing: https://www.shiyanlou.com//admin/tupian.htm status:404
Testing: https://www.shiyanlou.com//admin/up.htm status:404
Testing: https://www.shiyanlou.com//admin/up/upload.htm status:404
Testing: https://www.shiyanlou.com//admin/upfile.rar status:404
Testing: https://www.shiyanlou.com//admin/upfile/UpFile.htm status:404
Testing: https://www.shiyanlou.com//admin/upfile/UpFile2.htm status:404
Testing: https://www.shiyanlou.com//admin/upfile/Upload.htm_status:404_
Testing: https://www.shiyanlou.com//admin/upfile/Upload2.htm status:404
Testing: https://www.shiyanlou.com//admin/upload.htm status:404
Testing: https://www.shiyanlou.com//admin/upload/Upload.htm status:404 om
```

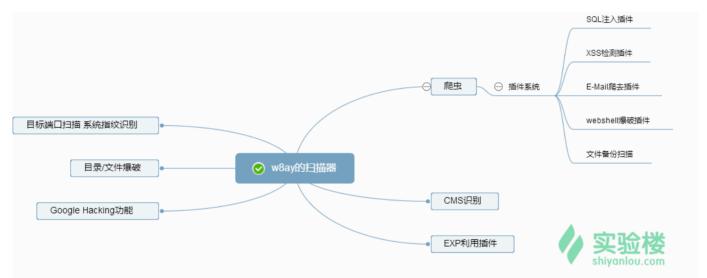
生成的网页报告

W8ayscan Report

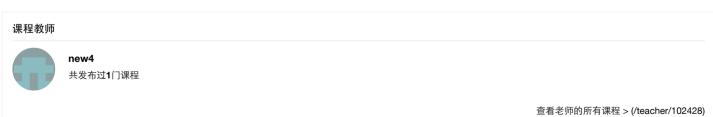
title	content	
cdn	www.shiyanlou.com Nodes:24 IP(1):115.29.233.149	
PortScan	115.29.233.149:512 Close	
	115.29.233.149:513 Close	
	115.29.233.149:2049 Close 115.29.233.149:5900 Close	
	115.29.233.149.8834 Close	
	115.29.233.149.9999 Close	
	115.29.233.149:21 Close	
	115 29 233 149:22 Close	
	115.29.233.149:23 Close	
	115.29.233.149:25 Close	
	115.29.233.149:2082 Close	
	115.29.233.149:2083 Close	
	115.29.233.149:5672 Close	
	115.29.233.149:2601 Close	
	115.29.233.149:2604 Close	
	115.29.233.149:53 Close	
	115.29.233.149:1080 Close	
	115.29.233.149:3389 Close	
	115.29.233.149:10050 Close	A. 175 7 A. 144
	115.29.233.149:50000 Close	→ シャル シャル を
	115.29.233.149:3128 Close	shiyanlou.com
	115.29.233.149:9300 Close	

三、总结

至此,扫描器课程已经完结了,还记得第一节课的扫描器脑图吗



已经完成了其中大部分的功能,有部分功能在后期编写过程中感觉不需要了,所以没有加上,其实,如果学完了这个系列课程的话,相信大家已经有一个基本的制作扫描器的概念了。





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