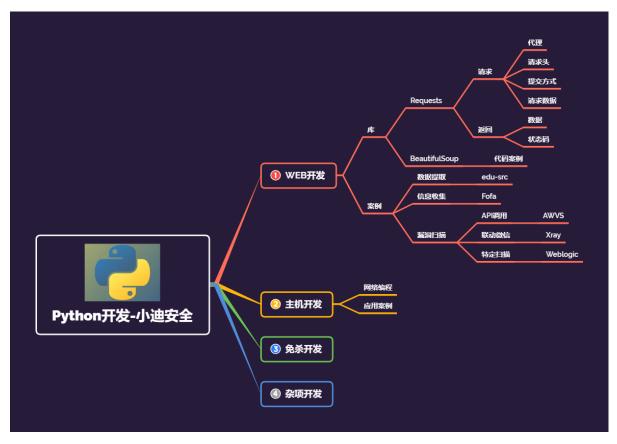
Day157 安全开发-Python自动化挖掘项目&SRC目标&FOFA资产&Web爬虫解析库





1.知识点

- 1、Python-Requests库技术
- 2、Python-bs4-lxml库-数据筛选
- 3、实战案例项目-edu src自动化挖掘

2.演示案例

2.1 Python-WEB爬虫库&数据解析库

```
1 请求方式&POST提交&带入请求头&回显处理&加入代理等
  #coding:utf-8
  #author:xiaodi
   import requests
6
  #GET请求
   # result=requests.get('http://www.xiaodi8.com/')
   # print(result.text)
8
9
   #post请求
10
  #如果username=字典, password=字典, 进行批量发送
11
  #这不就是一个后台爆破脚本吗?
12
   # url='http://www.xiaodi8.com/zb_system/cmd.php?
13
   act=verify'
14
   data='btnPost=%E7%99%BB%E5%BD%95&username=123123
   123&password=8fbff7db6624356b8f3874588d92ca02&sa
   vedate=1'
  # result=requests.post(url,data=data)
15
   # print(result.text)
16
```

```
#带入请求头
  #比如:某个地址只能手机访问,电脑访问不了
  #实现Python脚本尝试访问爬取数据,那么一般怎么操作?
  #直接利用手机数据包带入py脚本中去爬虫请求,请求头更改!
  #应用场景: 1、无法访问 2、绕过反爬虫 3、自定义设计(带入
5
  cookie)
6
  # hearers={
       'User-Agent': 'Mozilla/5.0 (Windows NT
  #
  10.0; Win64; x64) ApplewebKit/537.36 (KHTML, like
  Gecko) Chrome/92.0.4515.107 Safari/537.36',
  # }
8
  #
  requests.get('http://www.xiaodi8.com',headers=hea
  rers)
```

```
1 #加入代理
  #应用场景: 1、无法访问 2、绕过反爬虫 3、自定义设计
2
  # proxy={
         'http':'127.0.0.1:8080',
   #
 5
   #
         'https':'127.0.0.1:8080'
   # }
6
   #
   requests.get('http://www.xiaodi8.com/',proxies=p
   roxy)
   #解析库学习-Bs4_1xm1库-数据筛选
10
  #coding:utf-8
11
   import re
   from bs4 import BeautifulSoup
12
13
   html_code='''见测试代码
14
```

```
1 1 1
15
16
   #1、提取div便签数据
   #2、提取div下class=item-top__1z3zo
17
18
   #3、提取a标签targe=_blank下href
19
   #4、提取所有职位信息(明文)
20
   soup =BeautifulSoup(html_code,'lxml')
21
22
23
   #1、提取div便签数据
   # divs=soup.find_all('div')
24
   # for div in divs:
25
26
         print(div)
   #
27
   #2、提取div下class=item-top__1z3zo
28
29
   # divs=soup.find_all('div',attrs={'class':'item-
    top__1z3zo'})
   # for div in divs:
30
31
   # print(div)
32
33
   #3、提取的a标签targe=_blank下href
34
   # aaa=soup.find_all('a',attrs=
   {'targe':'_blank'})
35
   # for aa in aaa:
36
   # print(aa['href'])
37
   #
        #print(aa.attrs['href'])
38
39
40
   #4、提取所有职位信息(明文)
   names=soup.find_all('a',attrs=
41
   {'target':'_blank'})
   moneys=soup.find_all('div',class_="p-
42
    bom___JlNur")
```

```
43
44 for name in names:
45    print(name.string.strip())
46
47 #print(moneys)
48 for money in moneys:
49    print(money.get_text().strip())
```

2.2 Python-EDU SRC-目标列表爬取

```
1
    import requests, time
    from bs4 import BeautifulSoup
 2
    #https://src.sjtu.edu.cn/rank/firm/0/?page=1
 6
    def edu_get_name():
 8
        url='https://src.sjtu.edu.cn/rank/firm/0/?
    page='
        for i in range(1,204):
10
            urls=url+str(i)
11
12
            try:
13
                print('获取第%s页数据'%str(i))
                s=requests.get(urls).text
14
15
                soup = BeautifulSoup(s, 'lxml')
                name=soup.find_all('tr',attrs=
16
    {'class':'row'})
                #print(name)
17
18
                for n in name:
19
                    names=n.a.string
```

```
#name=list(n.stripped_strings)
20
    [1]
                     with open('edu.txt',
21
    'a+',encoding='utf-8') as f:
22
                         f.write(names + '\n')
                         f.close()
23
24
            except Exception as e:
25
                 time.sleep(0.5)
26
27
                 pass
28
    if __name__ == '__main__':
29
        edu_get_name()
30
```

2.3 Python-FOFA API-资产信息爬取

```
import time.os
    import requests,base64,json
   #接口1
   #https://fofa.info/api/v1/search/all?
    email=your_email&key=your_key&qbase64=dGl0bGU9Im
    Jpbmci
   #接口2
6
   #"https://fofa.info/api/v1/search/stats?
    fields=domain,port,server&gbase64=dGl0bGU9IueZvu
   w6piI%3D&email=your_email&key=your_key"
   #查询语法
   #title="xx大学" && country="CN""
9
10
11
   def fofa_get_server(email,apikey):
12
        # proxy = {
```

```
13
        #
              'http':
    'http://f777.kdltps.com:15818',
              #'https':
14
    'https://f777.kdltps.com:15818'
15
        # }
        for name in open('edu.txt',encoding='utf-
16
    8'):
17
            name=name.strip()
            search_name='"%s" && country = "CN" &&
18
    title == "Error 404--Not Found"'%name
19
    b=base64.b64encode(search_name.encode('utf-
    8')).decode('utf-8')
20
    url='https://fofa.info/api/v1/search/all?
    email=%s&key=%s&qbase64=%s'%(email,apikey,b)
            s=requests.get(url).json()
21
            #获取接口1
22
            ss=s['size']
23
            if ss!=0:
24
                print('有数据来了')
25
26
                print(search_name)
27
                print(s)
                ip=s['results']
28
                for i in ip:
29
                    ii=i[0]
30
31
                    print(ii)
                    with open('weblogic.txt', 'a+',
32
    encoding='utf-8') as f:
                         f.write(ii + '\n')
33
                        f.close()
34
35
```

```
36
            # 获取接口2
37
            #
    url='https://fofa.info/api/v1/search/stats?
    fields=domain,port,server&qbase64=%s&email=%s&ke
    y=%s'%(b,email,apikey)
            # print(url)
38
            # print(s)
39
            # print('ip: '+str(s['distinct']['ip']))
40
            # #print('server:' + str(s['distinct']
41
    ['server'])
            # servers=s['aggs']['server']
42
            # for server in servers:
43
                  count=server['count']
44
            #
45
                  name=server['name']
            #
                  print('%s个%s'%(count,name))
46
            #
47
            #
            # time.sleep(10)
48
49
    if __name__ == '__main__':
50
51
        fofa_get_server('xxx@xx.com','xxxxxxxxxxxx')
```