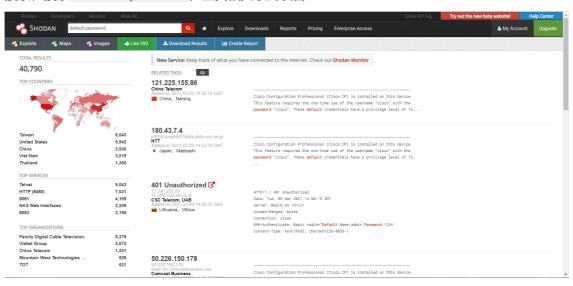
Shodan 体验

xiabee

直接使用

• 搜索栏搜索 default password, 查找相关联网设备:



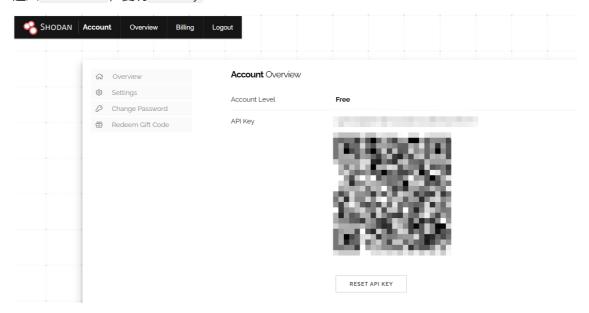
可以搜索到很多和默认密码相关的设备

• 查看详细信息



结合MSF使用

• 进入 shodan.io , 复制 API Key



• 启动MSF

```
1 msfconsole
2 # 启动MSF
3 search shodan
4 # 查找相关exp
5 use auxiliary/gather/shodan_search
6 # 使用shodan_search模块
```

```
<u>msf6</u> > search shodan
Matching Modules
 :=========
  # Name
                                                          Disclosure Date Rank
                                                                                   Check Description
  0 auxiliary/gather/shodan_honeyscore
                                                                             normal No
                                                                                              Shodan Honeyscore Client
   1 auxiliary/gather/shodan_host
                                                                             normal No
                                                                                              Shodan Host Port
  2 auxiliary/gather/shodan_search
3 auxiliary/scanner/http/influxdb_enum
                                                                                              Shodan Search
                                                                             normal No
                                                                                             InfluxDB Enum Utility
                                                                             normal No
   4 auxiliary/scanner/http/smt_ipmi_49152_exposure 2014-06-19
                                                                                             Supermicro Onboard IPMI Port 49152
                                                                             normal No
 Sensitive File Exposure
Interact with a module by name or index. For example info 4, use 4 or use auxiliary/scanner/http/smt_ipmi_49152_exposur
msf6 > use auxiliary/gather/shodan_search
msf6 auxiliary(gather/shodan_search) > _
```

• 查看相关参数: show options

```
msf6 auxiliary(gather/shodan_search) > show options
Module options (auxiliary/gather/shodan_search):
  Name
                  Current Setting Required Description
  DATABASE
                  false
                                   no
                                             Add search results to the database
  MAXPAGE
                                             Max amount of pages to collect
                                   yes
  OUTFILE
                                             A filename to store the list of IPs
                                   no
  QUERY
                                             Keywords you want to search for
                                   yes
  REGEX
                                             Regex search for a specific IP/City/Country/Hostname
                                   yes
  SHODAN_APIKEY
                                             The SHODAN API key
                                   yes
```

• 设置相关参数:

```
msf6 auxiliary(gather/shodan_search) > set SHODAN_APIKEY
SHODAN_APIKEY =>
msf6 auxiliary(gather/shodan_search) > set QUERY netcam
QUERY => netcam
msf6 auxiliary(gather/shodan_search) >
```

exploit

```
msf6 auxiliary(gather/shodan_search) > run
   Total: 3835 on 39 pages. Showing: 1 page(s)
*] Collecting data, please wait...
Search Results
 ========
IP:Port
                       City
                                            Country
                                                           Hostname
1.4.193.68:80
                       Nonthaburi
                                            Thailand
                                                           node-cw4.pool-1-4.dynamic.totinternet.net
                      Tangocho-taiza
101.128.217.128:8001
                                            Japan
                                                           128.217.128.101.dy.bbexcite.jp
 103.98.17.29:49153
                       New Taipei
                                            Taiwan
                                            United States pool-108-51-54-148.washdc.fios.verizon.net
 108.51.54.148:82
                       Fairfax
115.84.245.104:8038
                      Manila
                                            Philippines
                                                           104.245.84.115.ids.service.static.eastern-tele.com
116.49.94.132:8000
                                            Hong Kong
                       Central
                                                           n1164994132.netvigator.com
                                            Hong Kong
119.236.22.207:80
                       Central
                                                           n11923622207.netvigator.com
                                            Hong Kong
 119.246.29.128:8000
                       Tsuen Wan
                                                           119246029128.ctinets.com
                                            Hong Kong
                       Wong Tai Sin
                                                           119246062023.ctinets.com
119.246.62.23:8000
12.204.91.4:80
                       Riverside
                                            United States
 123.59.120.129:49153
                      N/A
                                            China
 124.244.137.182:80
                       Chai Wan
                                            Hong Kong
                                                           124244137182.ctinets.com
                                            Hong Kong
 124.244.202.26:8080
                                                           124244202026.ctinets.com
                       Shatin
 124.85.16.25:8086
                       Monbetsu-honcho
                                            Japan
                                                           p2451025-ipad37sapodori.hokkaido.ocn.ne.jp
 125.59.212.117:20000
                      Tsuen Wan
                                            Hong Kong
                                                           cm125-59-212-117.hkcable.com.hk
 129.173.95.170:80
                       N/A
                                            Canada
                                                           wc-2.Biochem.Dal.Ca
```

此时可以看到联网的摄像头设备

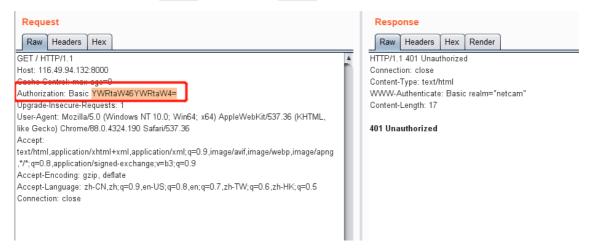
弱口令测试

• 随机选取一个地址,进入



要求我们身份验证......直接用 Burp Suite 测试是否存在注入点

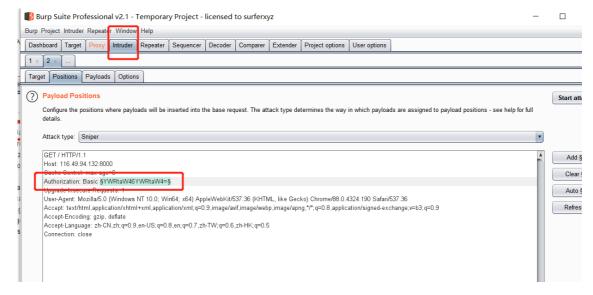
• 抓包结果:输入用户名: admin;输入密码: admin:



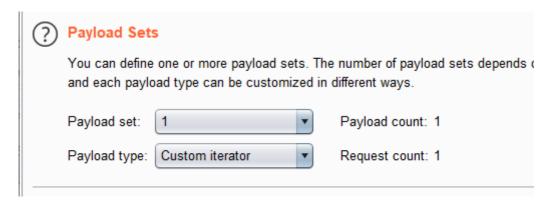
看到 Authorization: Basic 字段,基本确定其为刚刚输入的用户名和密码;

YWRtaw46YWRtaw4= 经过 base64 decode 之后结果为 admin:admin,推断密码以明文传输,并推断其结构为 base64encode(\$username:\$password)

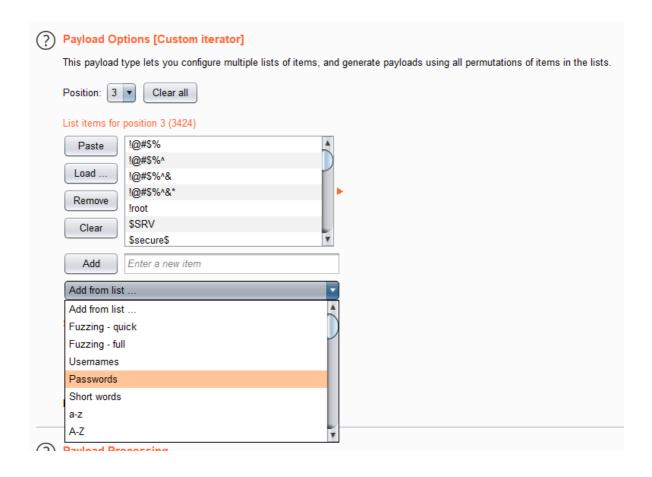
弱口令爆破

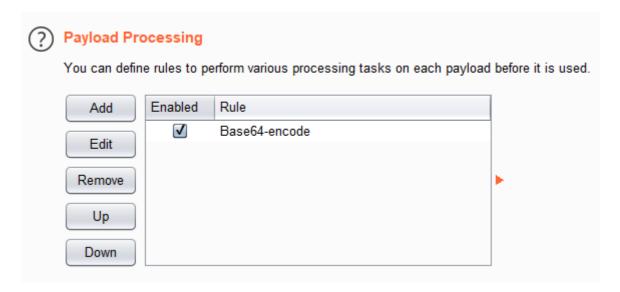


添加爆破点



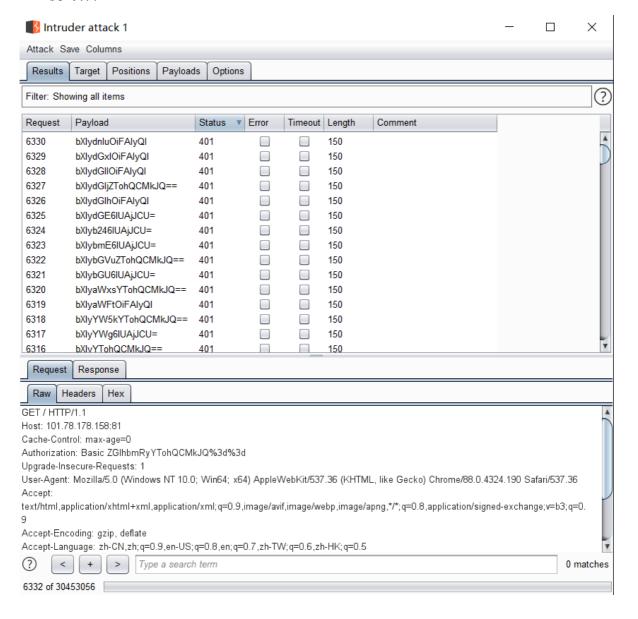
payload为自定义迭代器





对迭代对象进行 base64 编码

• 测试结果:



截至目前,依然没有找到正确的用户名密码对......

Status 未出现 200

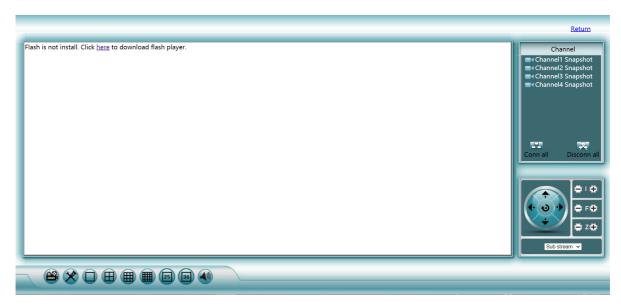
然后我换了一个站点: http://92.4.76.54:60001/

再次爆破,发现这位爷没设密码......

Network video client







实验心得

- shodan 是一个很强大的信息收集工具,可以为渗透测试提供很多有效信息
- shodan 的 API 接口,结合 Metasploit 的使用,可以使得渗透测试与信息收集更加方便
- 相较于几年前,弱口令设备和用户已经没有那么常见,网民安全意识逐渐提升......
- 智能设备应修改默认口令,并定期更换口令,以防攻击者的恶意攻击