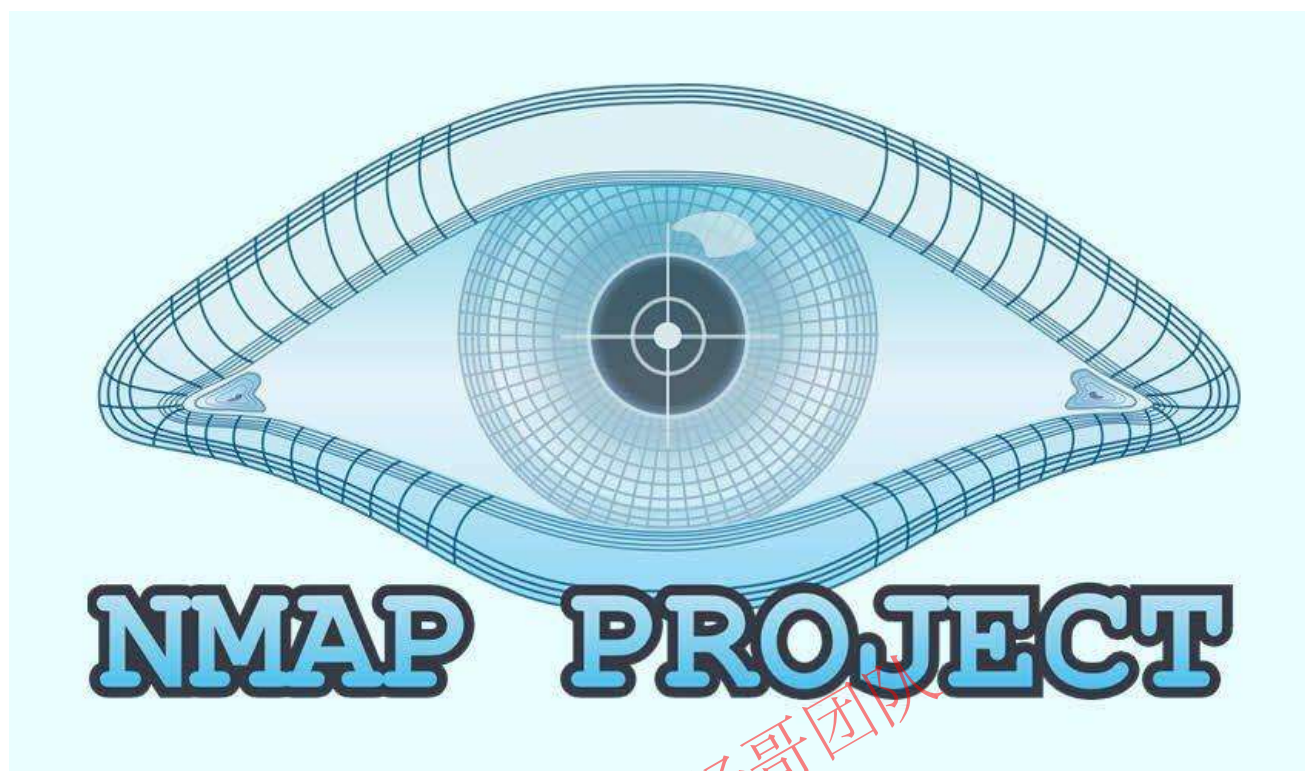


Web信息收集之目标扫描



1. 项目实验环境

目标靶机：OWASP_Broken_Web_Apps_VM_1.2
测试渗透机：win7/Kali

2. nmap

2.1 nmap简介

Nmap是安全渗透领域最强大的开源端口扫描器，能跨平台支持运行。

<https://nmap.org/>

<http://sectools.org/>

2.1 扫描示例

```
主机发现    nmap -sn 192.168.106/24
端口扫描    nmap -sS -p1-1000 192.168.106.134
系统扫描    nmap -O 192.168.106.134
版本扫描    nmap -sV 192.168.106.134
综合扫描    nmap -A 192.168.106.134

脚本扫描    root@kali:/usr/share/nmap/scripts#
            nmap --script=default 192.168.106.134
            nmap --script=auth 192.168.106.214
            nmap --script=brute 192.168.106.134
```

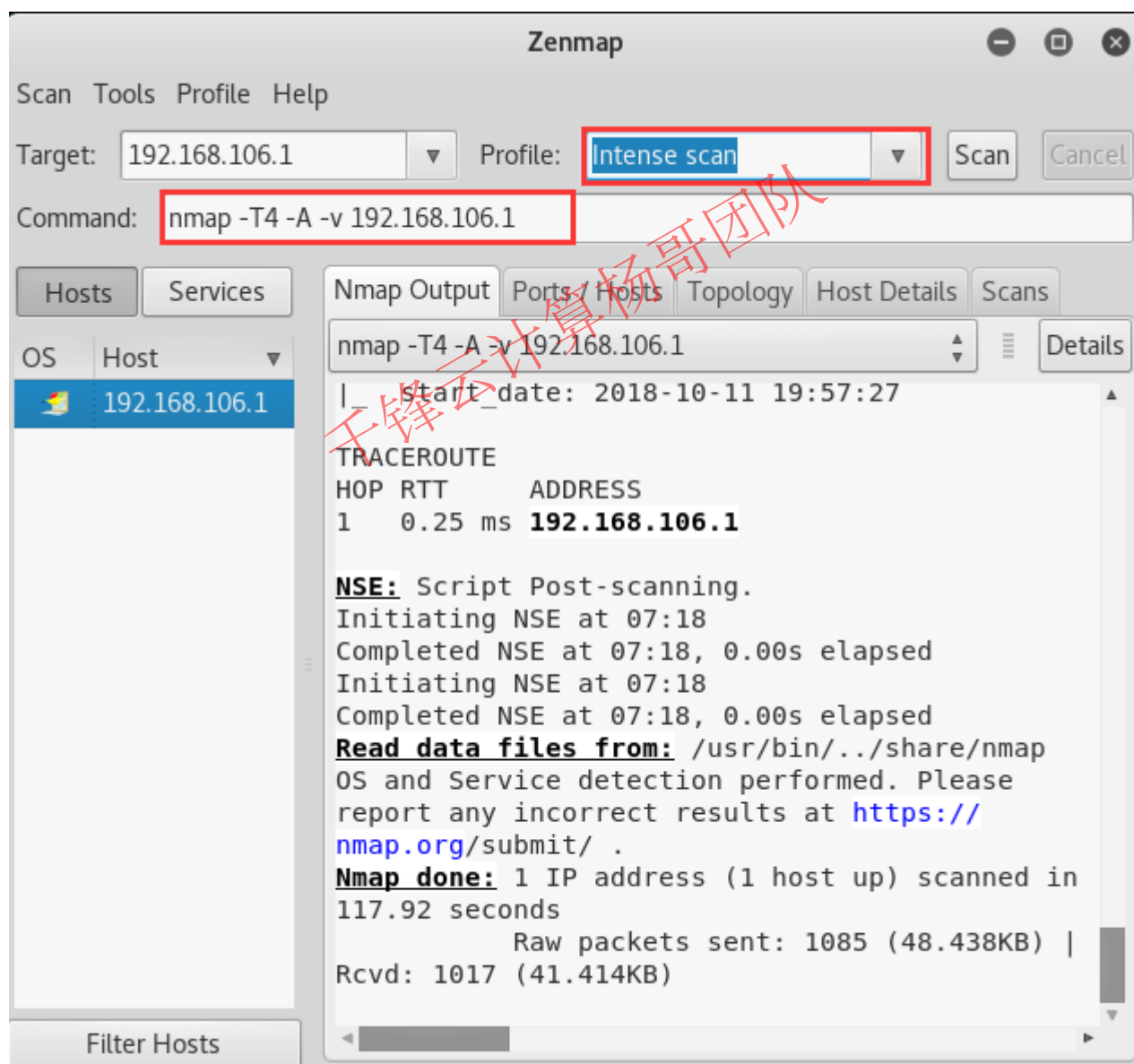
```
nmap --script=vuln 192.168.106.134
nmap --script=broadcast 192.168.106.134
nmap --script=smb-brute.nse 192.168.106.134
map --script=smb-check-vulns.nse --script-args=unsafe=1 192.168.106.134
map --script=smb-vuln-conficker.nse --script-args=unsafe=1 192.168.106.134
nmap -p3306 --script=mysql-empty-password.nse 192.168.106.134
```

3. zenmap

3.1 Intense scan

```
nmap -T4 -A -v 192.168.106.1
```

- T 设置速度等级，1到5级，数字越大，速度越快
- A 综合扫描
- v 输出扫描过程



3.2 Intense scan plus UDP

```
nmap -sS -sU -T4 -A -v 192.168.106.134
-sS TCP全连接扫描
-sU UDP扫描
```

3.3 Intense scan, all TCP ports

```
nmap -p 1-65535 -T4 -A -v 192.168.106.134
-p 指定端口范围，默认扫描1000个端口
```

3.4 intense scan no ping

```
nmap -T4 -A -v -Pn 192.168.106.0/24
-Pn 不做ping扫描，例如针对防火墙等安全产品
```

3.5 ping scan

```
nmap -sn 192.168.106.0/24
nmap -sn -T4 -v 192.168.106.0/24
-sn 只做ping扫描，不做端口扫描
```

3.6 quick scan

```
nmap -T4 -F 192.168.106.134
-F fast模式，只扫描常见服务端口，比默认端口（1000个）还少
```

3.7 Quick scan plus

```
nmap -sV -T4 -O -F --version-light 192.168.106.134
-sV 扫描系统和服务版本
-O 扫描操作系统版本
```

3.8 Quick traceroute

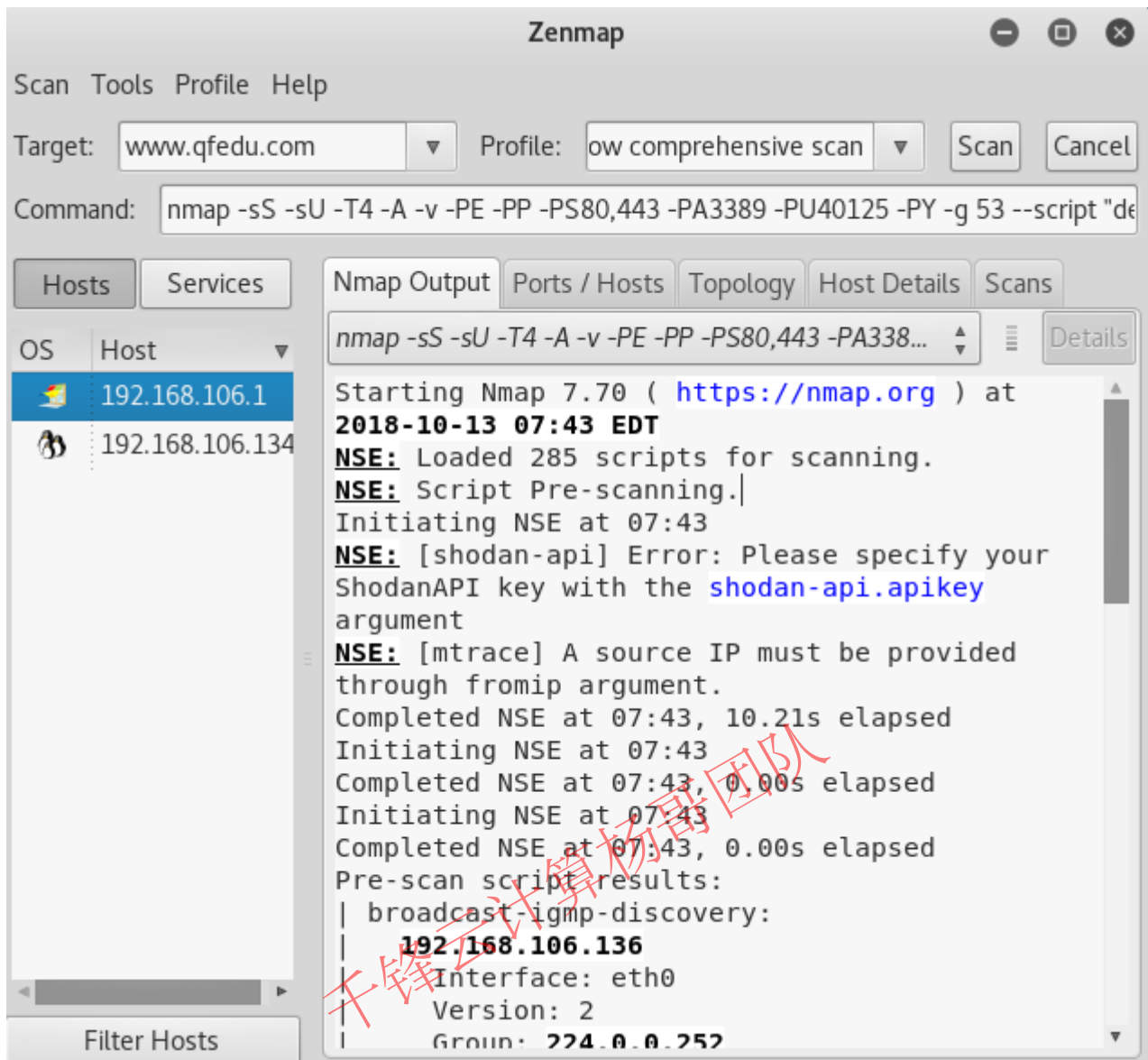
```
nmap -sn --traceroute www.qfedu.com
```

3.9 Regular scan

```
nmap www.qfedu.com
```

3.10 Slow comprehensive scan

```
nmap -sS -sU -T4 -A -v -PE -PP -PS80,443 -PA3389 -PU40125 -PY -g 53 --script "default or (discovery and safe)" www.qfedu.com
```



4. OpenVAS



OpenVAS (Open Vulnerability Assessment System), 即开放式漏洞评估系统, 是一个用于评估目标漏洞的杰出框架, 开源且功能十分强大;

它与著名的Nessus “本是同根生”, 在Nessus商业化之后仍然坚持开源, 号称“当前最好用的开源漏洞扫描工具”。最新版的Kali Linux不再自带OpenVAS了, 需要自己部署OpenVAS漏洞检测系统。其核心部件是一个服务器, 包括一套网络漏洞测试程序, 可以检测远程系统和应用程序中的安全问题。

但是它的最常用用途是检测目标网络或主机的安全性。它的评估能力来源于数万个漏洞测试程序, 这些程序都是以插件的形式存在。openvas是基于C/S (客户端/服务器), B/S(浏览器/服务器)架构进行工作, 用户通过浏览器或者专用客户端程序来下达扫描任务, 服务器端负责授权, 执行扫描操作并提供扫描结果。

<http://www.openvas.org/>

<http://www.greenbone.net/>

4.1 部署OpenVAS

升级Kali Linux

```
root@kali:~# apt-get update
```

```
root@kali:~# apt-get dist-upgrade
```

安装OpenVAS

```
root@kali:~# apt-get install openvas
```

```
root@kali:~# openvas-setup
```

修改admin账户密码

```
root@kali:~# openvasmd --user=admin --new-password=yangge
```

修改默认监听IP

```
root@kali:~# vim /lib/systemd/system/greenbone-security-assistant.service
```


检查安装：

```
root@kali:~# ss -tnlp
```

```
root@kali:~# openvas-check-setup
```

```
root@kali: ~
File Edit View Search Terminal Help
root@kali:~# ss -tnlp
State      Recv-Q      Send-Q      Local Address:Port      Peer Address:Port
LISTEN     0            128         127.0.0.1:9390           0.0.0.0:*
  users: (("openvasmd",pid=2079,fd=4))
LISTEN     0            128         0.0.0.0:80               0.0.0.0:*
  users: (("gsad",pid=2073,fd=5))
LISTEN     0            128         0.0.0.0:9392             0.0.0.0:*
  users: (("gsad",pid=2071,fd=5))
root@kali:~#
```

```
root@kali: ~
File Edit View Search Terminal Help
WARNING: Your version of nmap is not fully supported: 7.70
SUGGEST: You should install nmap 5.51 if you plan to use the nmap NSE NV
Ts.
Step 10: Checking presence of optional tools ...
  OK: pdflatex found.
  OK: PDF generation successful. The PDF report format is likely to work.
  OK: ssh-keygen found, LSC credential generation for GNU/Linux targets is
likely to work.
  WARNING: Could not find rpm binary, LSC credential package generation fo
r RPM and DEB based targets will not work.
  SUGGEST: Install rpm.
  WARNING: Could not find makensis binary, LSC credential package generati
on for Microsoft Windows targets will not work.
  SUGGEST: Install nsis.
It seems like your OpenVAS-9 installation is OK.
If you think it is not OK, please report your observation
and help us to improve this check routine:
http://lists.wald.intevation.org/mailman/listinfo/openvas-discuss
Please attach the log-file (/tmp/openvas-check-setup.log) to help us analyze the
problem.
root@kali:~# openvas-check-setup
```

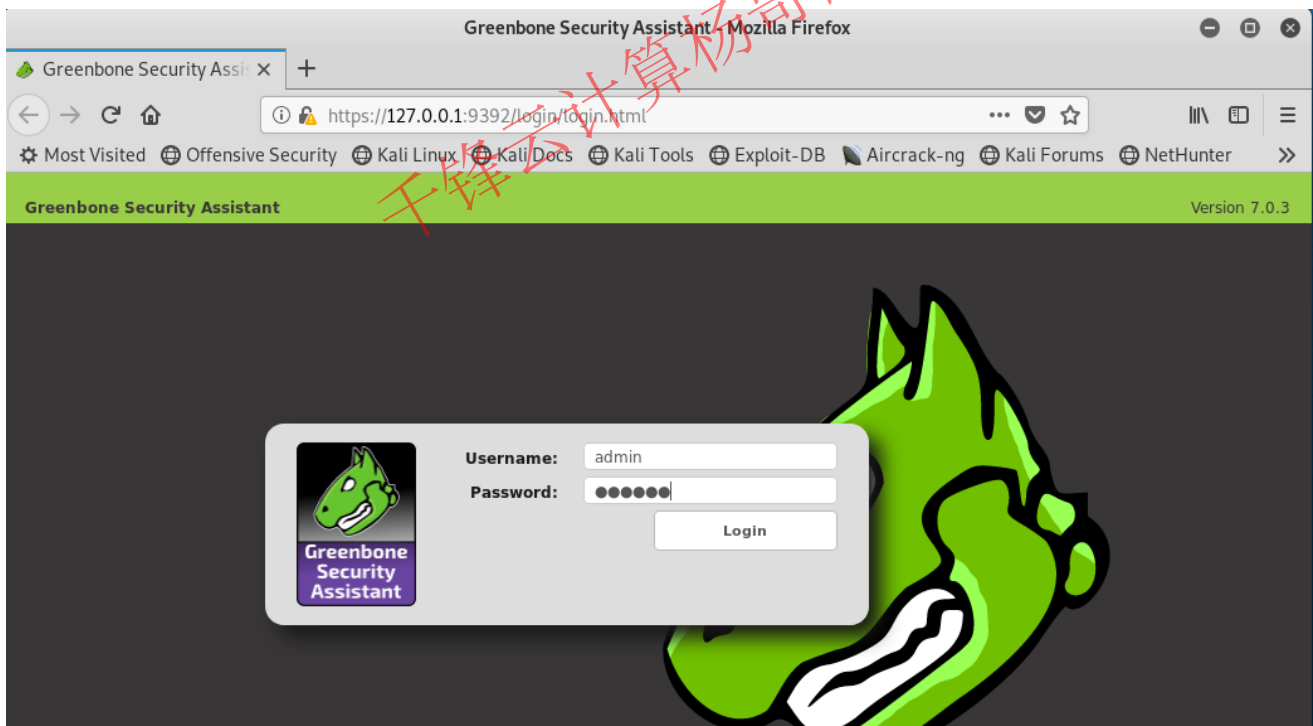
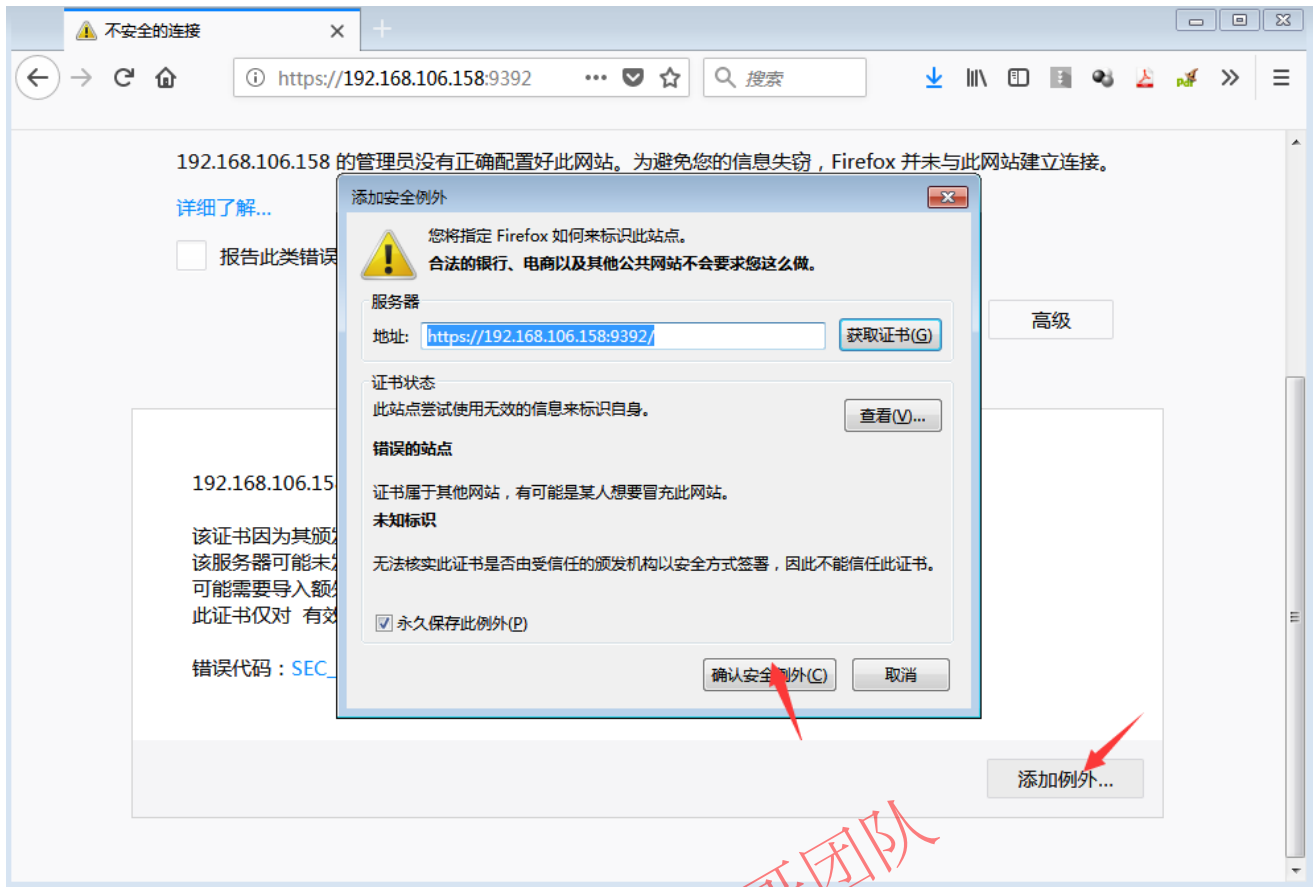
4.2 登录OpenVAS

https://192.168.106.158:9392

#192.168.106.158为Kali IP

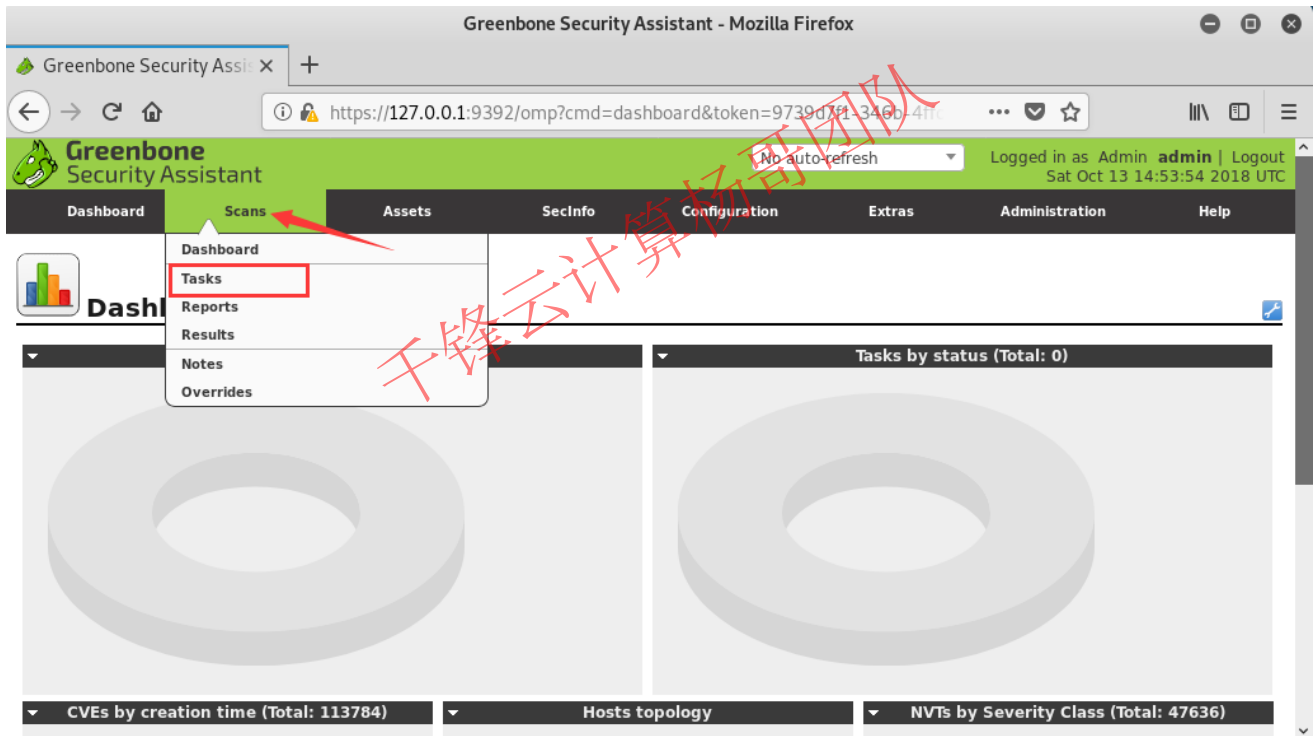
注：是https

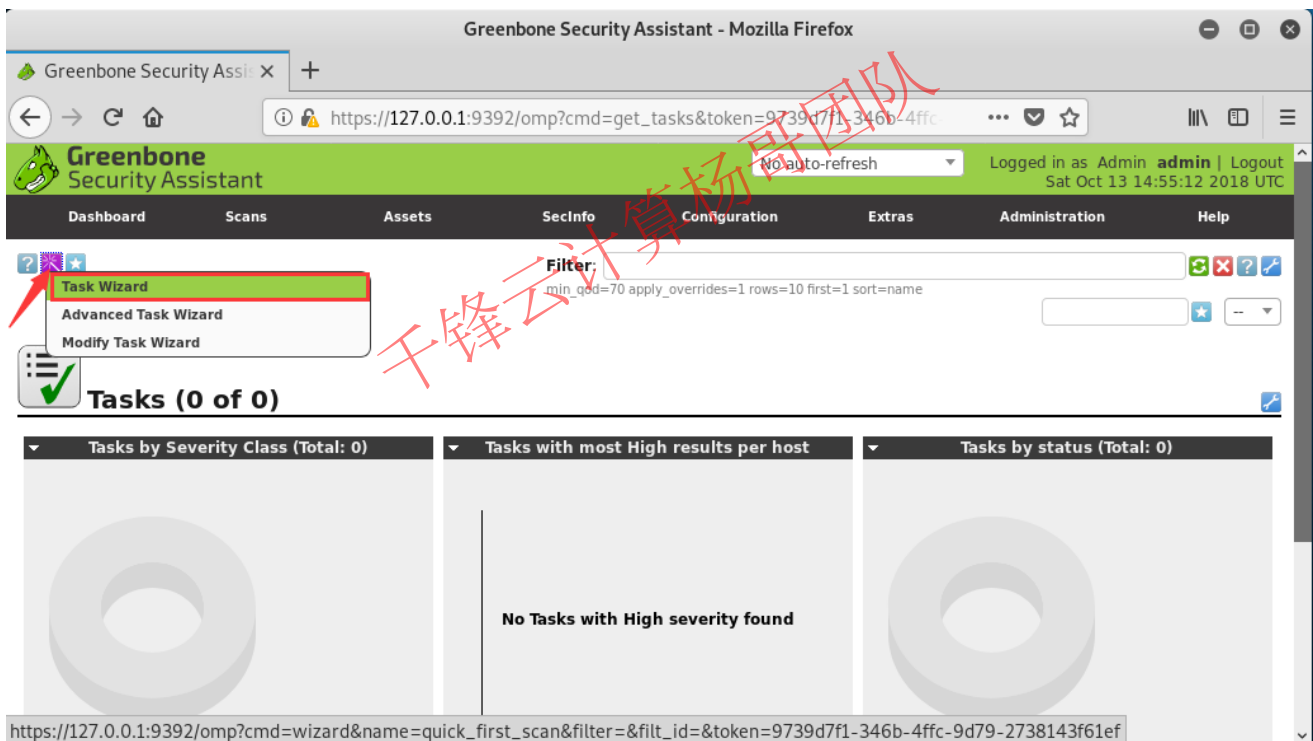
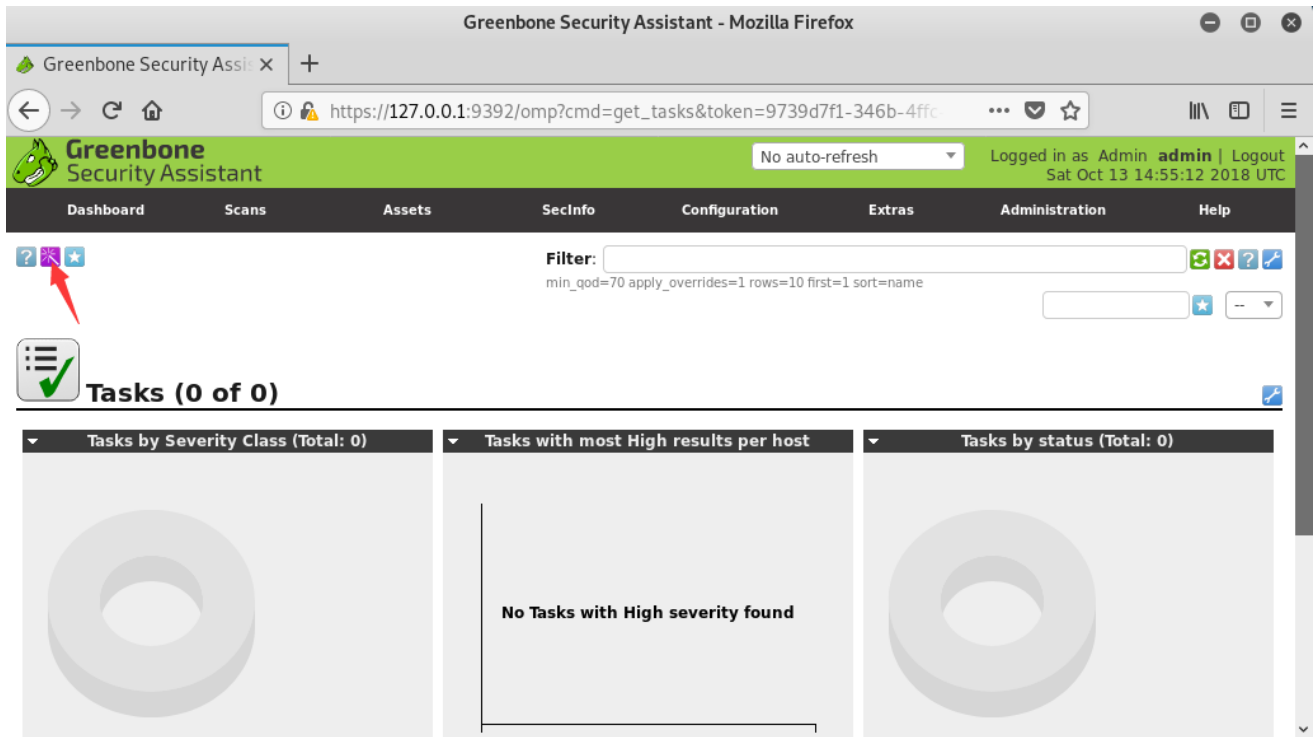


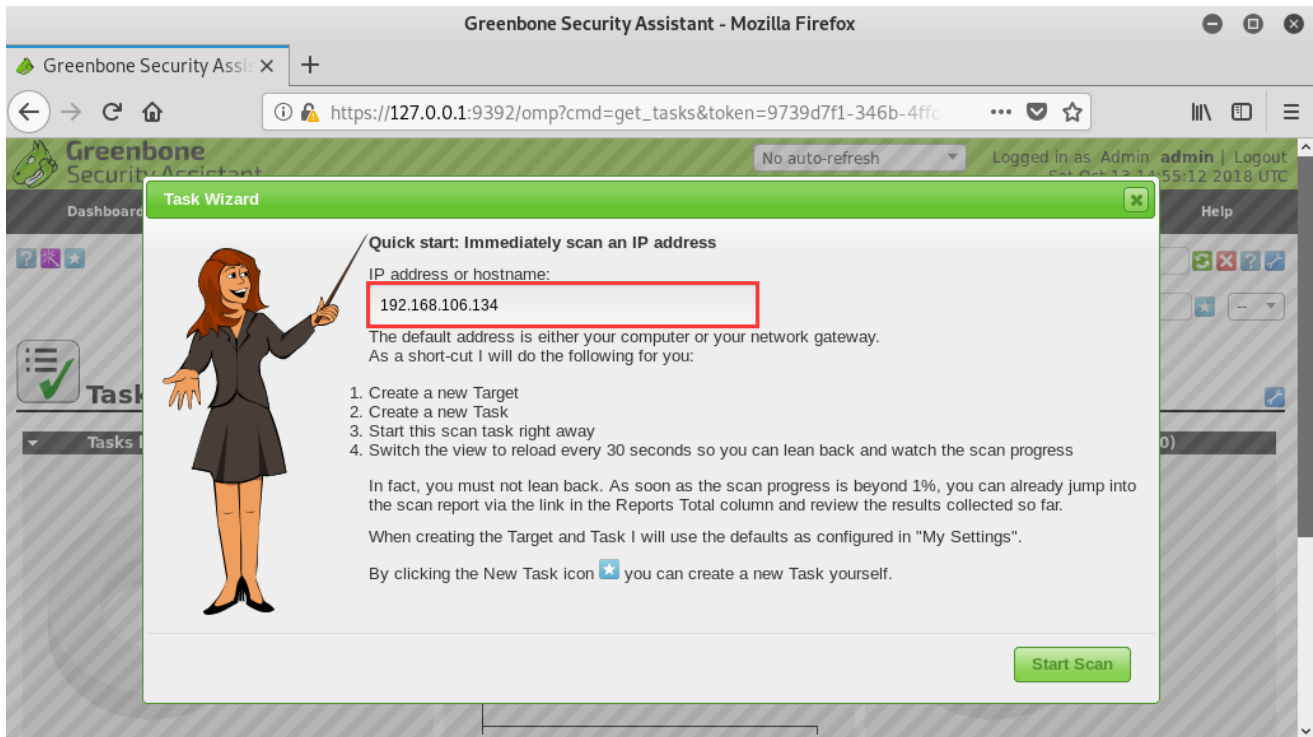




4.3 新建扫描task







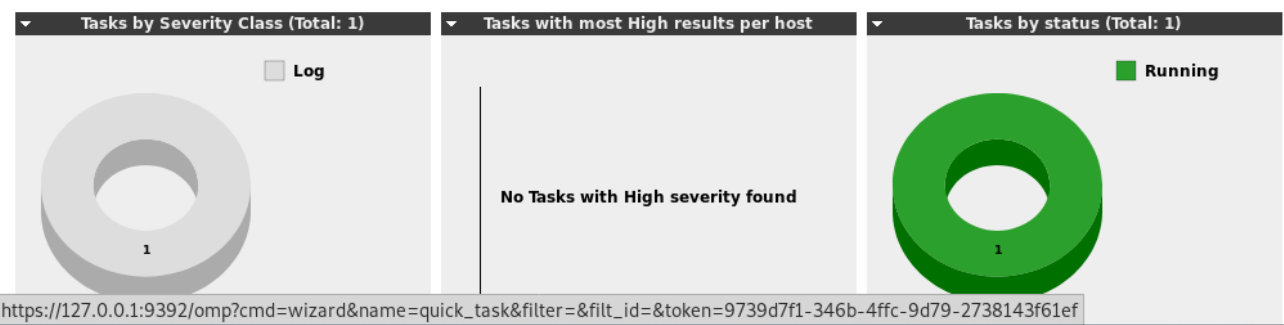
4.4 高级扫描task

Task Wizard
 Advanced Task Wizard
 Modify Task Wizard

Tasks (1 of 1)

Filter:

min_qod=70 apply_overrides=1 rows=10 first=1 sort=name



Advanced Task Wizard


I can help you by creating a new scan task and automatically starting it.

All you need to do is enter a name for the new task and the IP address or host name of the target, and select a scan configuration.

You can choose if you want me to run the scan immediately, schedule the task for a later date and time, or just create the task so you can run it manually later.

In order to run an authenticated scan, you have to select SSH and/or SMB credentials, but you can also run an unauthenticated scan by not selecting any credentials.

If you enter an email address in the "Email report to" field, a report of the scan will be sent to this address once it is finished.



Quick start: Create a new task

Task Name:

Scan Config:

Target Host(s):

Start time:

☒ Start immediately

☐ Create Schedule
 Saturday, 13 October, 2018

at h m

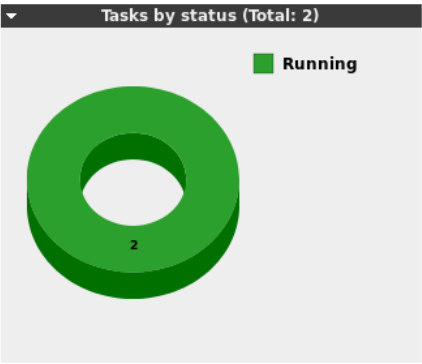
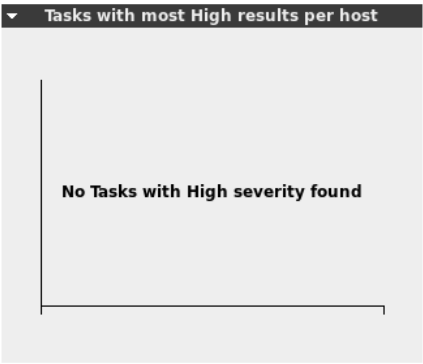
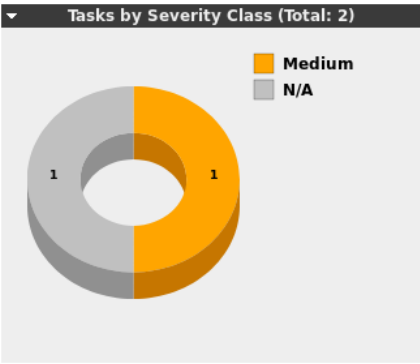
☐ Do not start automatically

SSH Credential: on port

SMB Credential:

ESXi Credential:

Email report to:



1 - 2 of 2

Name	Status	Reports		Severity	Trend	Actions
		Total	Last			
Immediate scan of IP 192.168.106.134	<div><div></div>22 %</div>	0 (1)				<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
www.qfedu.com (Automatically generated by wizard)	<div><div></div>1 %</div>	0 (1)				<div><div></div><div></div><div></div><div></div><div></div><div></div></div>

干锋云计算杨哥团队