# Bootable CD-Rom Linux Security Toolkits

## NebraskaCERT

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#### Introduction

- Disclaimer
  - Tommy Chong example
  - Locksmiths
- From the Knoppix STD penetration section "Remember:
- You are the only person responsible for the actions you take. Your actions have a direct effect on other people.

Think First. Don't be a dick!"

#### Introduction

- Knoppix/Morphix easily modifiable distributions
  - Strong automatic hardware configuration
  - Knoppix is going through constant upgrades
- Others such as LNX-BBC also exist
  - Some such as runt are small enough to fit on a usb keychain fob

#### Introduction

- Two types of distro will be mentioned
  - General purpose security tool CD
    - Convert a PC into a temporary workstation to run some set of tests
    - Can also reuse PC into a specific purpose machine such as running dsniff
  - Forensics
    - has a lot of potential to grow once .pst files are worked out
    - Linux Forensics http://www.linux-forensics.com has a lot of great information about this area

# **Knoppix STD**

- Knoppix Security Tools Distribution
- Homepage http://www.knoppix-std.org
- Probably the best one of these listed
  - Has quite a bit of documentation
  - Linking tools into some sub-shells works rather nicely

# Local Area Security Linux

- Newer than STD
- Homepage http://www.localareasecurity.com
- Has several subdistros including secure server, mini-disc, firewall and so on

## **Fire**

- Forensic Incident Response Environment (FIRE)
- Homepage http://fire.dmzs.com
- Can be operated over a serial cable, works well in console mode
- Virus scanner included

## Penguin Sleuth

- Bootable CD containing most of the info from the Linux Forensics home page
- Homepage http://www.linux-forensics.com
- Uses Task and Autopsy for data examination and recovry

#### I.N.S.E.R.T Linux

- Inside Security Rescue Toolkit
- Homepage http://www.inside-security.de
- Credit card sized distribution
- Clam to fame is Clam Antivirus (pun bad!!)

#### WarLinux

- Project by wardriving.com to put together good wireless toolkit
- Homepage http://www.wardriving.com
- Includes all standard wireless tools (Airsnort, kismet, and so on)

### Snarl

- FreeBSD based Coroner's system
- Hompage http://snarl.eecue.com
- Forensics toolkit similar to Fire and Penguin Sleuth
- Pretty green, might mature nicely though

## Which One???

- Knoppix STD is currently the strongest for general purpose, best documentation and the greatest percentage of the tools work
- All are freely available downloads. At any given time LAS might be ahead of STD in version of nmap or the like
- For forensics, Penguin Sleuth is rather nice and more of it works on my hardware

#### Local

- John the Ripper one of the best password cracking tools
- Wipe tool to reformat hard drive several times in an attempt to make recovery harder
- Secure\_delete tool to delete specific file by overwriting several times with different data
- Anti-virus tools tools to perform virus scans on mounted partitions
- Chkrootkit tool to look for rootkits

- Network
  - Cheops tool to try and map network
  - Nessus great scanning tool
  - Nmap tool to do port scans
  - Etherape tool to display network activity
  - Honeyd small tool to create simple honeynets
  - Labrea tarpit to slow network scans and some attack types

#### Network

- Snort included with about everything nowadays
- Iptraf IP traffic visualization tool
- Ethereal traffic capture and replay tool
- Ettercap switched network sniffer++
- Dsniff looks for interesting traffic such as usernames and passwords
- Whisker web vulnerability analyzer
- Spike Proxy Man in the middle proxy

#### Forensics

- Task and Autopsy tools that allow you to check images into and out of evidence
- Qparted tool that allows you to make copies of partitions without mounting the data
- Glimpse indexing tool will index reams of data for info
- Strings always the classic

- Wireless
  - Airsnort
  - Kismet
  - Macchanger

#### Other Resources

- Top 75 Security Tools
  - Found at http://www.insecure.org the makers on nmap – lists some tools such as sara and ntop which aren't included in any of the distros yet
- Open Source Testing Methodology
  - Found at <a href="http://www.ideahamster.org">http://www.ideahamster.org</a> a good approach to doing scans with excellent resources to quite a few tools

#### Contact Info

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#### Demo

- Quick overview of a couple of the toolkits
  - Knoppix STP
  - LAS