

# Introduction

# kaos.theory/security.research

- Because “shmoo group” was already taken
  - dr. kaos
  - fade
  - beth
  - digunix
  - arcon
  - atlas (no, not the leet one from CTF)
  - jonner

# Today's Specials

- Two projects:
  - SAMAEL – a blackbox gateway that creates a secure, anonymizing transparent firewall, protecting its users from embarrassing public disclosure.
  - NARC - transforming the output of scan tools to produce quantifiable, meaningful, (and totally hot-looking) results.

**SAMAEL:**  
**Secure, Anonymizing,**  
**Megalomaniacal,**  
**Autonomous, Encrypting Linux**

...and that's a mouthful

# History

- 03/2005: At Interz0ne, we proposed the idea for an OS that provided transparent anonymity, and kaos.theory was born
- 01/2006: At ShmooCon, we introduced Anonym.OS (our first public release and the world's coolest OpenBSD LiveCD :)
- 04/2006: At LayerOne, we release build documentation for Anonym.OS (hey, it beat the hell out of a maintenance release)

But DEFCON-goer's  
demand more...

and we don't do 0days

Anonym.OS  
WAS  
t3h  
COOL  
(and soooooooooo 80's)

SAMAEL  
is  
the  
HOTNESS  
(and Angelina Jolie uses it)



# Motivations

- All your base are belong to the NSA<sup>t&t</sup>
- Proliferation of SOHO networks in *desperate* need of security, anonymity
- Security and anonymity *aren't* intuitive or easy to implement...
- but they **ARE** easy to fuck up, giving the illusion of security and anonymity

# Design Goals

- As per Anonym.OS, our first incarnation:
  - Security of the system as well as the network it protects
  - Transparent anonymity for the private, paranoid, or just plain cautious
- Easy to use. Grandma should be able to plug it in and go, as easily as with a COTS router.

# Architecture

- Gentoo Linux
- Netfilter
- Squid
- Privoxy
- Transocks
- Tor

# Further

- Run a (fast) Tor server
- Vote
- Support Tor and the EFF
- Jump in and maintain these tools with us so we can tackle more cool projects for you

And now for something  
completely different...

Wicked Cool Demo

# NARC

# Motivations

- Large penetration tests (50,000+ hosts)
- Trending and vulnerability analysis
- Producing accurate, reliable reports quickly with a minimum of manual interaction

# Security Reporting

- What doesn't work:
  - Fear, Uncertainty, and Doubt
  - Data Overload
  - Over-simplification / Baffle with bullshit



# Reporting to Multiple Levels

- Network Engineer:
  - Wants details, remediation steps at a technical level
  - No graphs, charts, or other distractions
- IT Manager / Director:
  - Departmental people/process issues
  - Summaries of technical findings
- VP:
  - Inter-organizational issues
  - High-level summaries
- Board of Directors:
  - Thumbs up / Thumbs down

# Making Security Reporting Better

- Rely on objective, quantitative data
- Correlated data (average number of vulnerabilities by platform, service, etc)

# What We've Got Here

- Import scripts for pulling data in from scanning tools
- Canned queries for objective data
- Pretty pictures and summarized issues

# Live Demo

# Further Development

- AJAXify
- Extensible import framework
- Fully-customizable reports

# Q&A