Puffy Suits Up
OpenBSD in the corporate environment

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Agenda

- Introduction
- m:tier
- OpenBSD
- Enterprise OpenBSD
- GNOME
- Closing
Introduction
Because security is not an afterthought
The internet is a hostile environment
Who am I?

- Jasper Lievisse Adriaanse
  - OpenBSD
  - GNOME
  - Puppet
- Involved in m:tier since it's founding in 2008
m:tier
• Who are we?
  • OpenBSD developers
  • Breathe open source
  • Secure system architects
• What do we do?
  • OpenBSD
  • Puppet
  • Zabbix
  • Bacula
  • Open Source Software consultancy / implementation
• But also
  • OpenBSD Long Term Support
  • Thin Client
  • Binary patches
  • GNOME for OpenBSD
  • GNOME automounter for BSD
    – opensource.mtier.org
• “Talk is cheap, show me the code”
  • Intel KMS support
  • Radeon KMS support
  • Linux emulation improvements
  • Signed packages
State of the world
Governments and companies are snooping...

...on a massive scale!
• Can you still trust closed source US software?
  • Cisco PIX
  • Checkpoint
  • Dropbox
  • iCloud
  • ...

State of the World
• No, and why should you?
  • Because the US can be trusted.
  • Because the NSA would never spy on you.
  • Because we can trust the NSA will be held accountable

That's a good joke!
What *can* we trust
OpenBSD
• OpenBSD?
  • Unix-like, multi-platform operating system.
  • Derived from 4.4BSD, NetBSD fork.
  • Kernel + userland + documentation maintained together.
  • 3rd party applications available via the ports system
    - Anoncvs, OpenSSH, OpenBGPD, strlcpy(3)/strlcat(3), etc
  • Most importantly...
...it is secure.
• Secure and correct
  • Complexity introduces bugs
  • Security and stability over features
    – Does not mean stagnation
  • No Americans allowed to work on crypto
  • No blobs
• “NSA-proof”
  • Everyone (capable and trusted) allowed to work on crypto
    - except Americans, sorry..
  • Continuous auditing of all sources
  • FBI + IPsec rumour
    - Publicly auditing the stack resulted in two unrelated bug fixes
• Who would use OpenBSD? (I)
  • Anyone who needs a super secure system.
  • Anyone who doesn't want to worry about exploits.
• Who would use OpenBSD? (II)
  • Home users
  • Small/medium businesses
  • Large corporations (Adobe, etc)
  • Power/gas/water companies
  • Research centers (NASA, etc)
  • Internet Exchanges
  • Secret services..
Enterprise OpenBSD
• Enterprise setting
  • Constraints
    - Budgets
    - Deadlines
  • Protecting company assets
    - Business/trade secrets
    - Customer data
• What can OpenBSD offer?
  • Firewall
  • Routing
  • VPN
  • Mail
  • Desktop
  • ...much, much, more!
• Firewall
  • PF
  • Tightly coupled with anti-spam/greylisting
  • ramdisk
• Routing
  • OpenBGPD
  • OpenOSPFD
  • MPLS
  • DVMRP
• VPN
  • IPsec
  • OpenIKED
  • isakmpd
  • “Government problems”
• Mail (I)
  • OpenSMPTD
    - Started as sub-project
    - 15 Postfix server → 1 OpenSMTPD server
• Mail (II)
  • spamd
    - greylisting
    - tarpitting
• Mail (III)
  • Zarafa
    - groupware
      • calendar
      • addressbook
      • mail!
• Desktop (I)
  • Thin client
    – NX
    – VNC
    – SPICE
    – Puppet
• Desktop (II)
  • Immune to virus infections
  • Own ACPI implementation
  • KMS for Intel and Radeon
• Desktop (III)
  • Free, but comes at a cost
    – no Flash
    – no minesweeper.exe
• Puppet
  • One master
  • Three continents
  • OpenBSD everywhere
GNOME
• GNOME on OpenBSD
  • co-maintainer with ajacoutot@
  • Tremendous challenge
  • Tremendous progress
• Current status
  • OpenBSD lacks udev/systemd
  • GNOME 3.10 on OpenBSD [video]
Thank you!

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