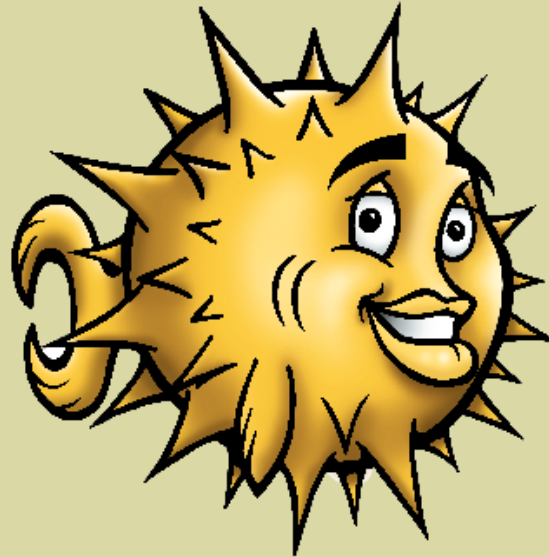


# The Blowfish and the Zarafa

(Zarafa on OpenBSD)



Zarafa SummerCamp 2009

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# Overview OpenBSD

- Free unix-like operating system
- Based on 4.4 BSD lite
- Founded in '95 by Theo de Raadt
- The ones behind OpenSSH and the blowfish
- Current Release: **OpenBSD 4.5**
- Details: <http://www.openbsd.org/>



# Ports and Packages

- 3<sup>rd</sup> Party Software comes through the ports system
- Important: does not receive the same audits as the core os
- Ports is what you build the package from
- Currently ~ 5500 ports and packages
- Packages available for releases and for -current



# Porting Zarafa to OpenBSD

- Antoine Jacoutot <ajacoutot@openbsd.org>
- Initial Port 6.20.1 – hit the tree in February
  - /usr/ports/mail/zarafa/*
- <http://www.openbsd.org/cgi-bin/cvsweb/ports/mail/zarafa/>
- Split up into the modules
  - Zarafa
  - Webaccess
  - Libical
  - Libvmime
- Recent addition: z-push



# Porting Zarafa to OpenBSD (2)

- Community edition – no zarafa-license server
- Currently 67 patches
- In OpenBSD -current we keep Zarafa up to date
  - backports for OpenBSD 4.5 available
- Biggest problem was - “as usual” Linuxisms

```
#ifdef __OpenBSD__  
#define ....  
#endif
```
- Different Includes



# Installing Zarafa on OpenBSD

- Through OpenBSD ports

*# cd /usr/ports/mail/zarafa && make install*

- Through OpenBSD packages

– Export PKG\_PATH

*# pkg\_add zarafa*

- Up-to-date Zarafa packages for OpenBSD 4.5

<http://bytemine.net/~fkr/zarafa/>



# Installing Zarafa on OpenBSD (2)

- Services started from `/etc/rc.local`
- `LD_PRELOAD` needed because of `pthread`  
`LD_PRELOAD=/usr/lib/libpthread.so /usr/sbin/httpd -DSSL`
- Configuration through `/etc/zarafa/`
- WebAccess installed to `/var/www/zarafa-webaccess`
- Zarafa runs by default as user `_zarafa`
- Everything else for the install as usual



# Caveats and Issues

- zarafa-server potentially gets stuck in Signal Handler
  - Still looking for the real issue
- OpenBSD has tight limits
  - login.conf → add a login class for this user
- Apache from core os chroots by default
  - Don't forget the -u switch if need be





# Why even bother?

- I want my groupware to run on OpenBSD
  - Groupware has sensitive informations stored
- Cross-Platform portability keeps software healthy
  - Finding bugs
  - Reveals non-portable code
- Is it business relevant?



# Famous last page

- Check <http://blog.bytemine.net/> for these slides.
- Thanks for all the fun at SummerCamp!
- Till next time.

