

IMPLEMENTING OPEN SOURCE SYSTEMS

Jim McKinnell LOOK Systems

Globalisation

- The UK is part of the World economy
- Europe is moving towards a single market
- The Far East : Japan, Taiwan, South Korea has already made a significant contribution
- India is providing knowledge workers
- China is emerging as a market and competitor
- Is the UK too reliant on links to the US?

Co-operation not Domination

- The UK must co-operate to compete
- Open Source is co-operative
- The UK should be a leader not a follower
- France and Germany favour Open Source
- China will be have a major influence
- South Korea?
Cost saving or swimming with the tide

UK Government and OSS

- Notional commitment to OSS (for research)
- Factors mitigating against OSS
 - Politics
 - Fashion
 - Momentum
 - Out-sourcing

A suggestion for Government

- Publish software systems under the GPL
 - Patient records system
 - Inland Revenue systems
 - Vehicle licensing system
 - Education and Training management system
 - ...
- Avoid supplier lock-in
- Let smaller focussed contracts
- Back Britain

Linux is Inevitable

- Government commitments
 - EU : France, Germany
 - South Korea
 - Others?
- Manufacturer commitments
 - IBM, HP
 - Oracle
 - Sun, Dell, ...

Using Linux

- LOOK Systems has been using Linux for 10 years
 - Internet gateway
 - Mail filter
 - File server
 - Application server
 - GUI desktop
 - Thin-client server

Internet Gateway

- Firewall - IP control using iptables
 - Only specified ports open for input e.g. smtp, http
 - Controlled IP forwarding
- Web proxy server – squid
- Web filter – dansguardian
- Mail forwarding – sendmail

Mail Filter

- Use procmail to
 - Isolate messages with potential virus attachments
 - Render 'active' elements of email inactive
User can reactivate if appropriate
 - Attempt to identify spam

Network Services

- DNS
- DHCP
- NIS
- IP routing
- LDAP

File Server

- NFS for Unix file sharing
- Samba for Microsoft file sharing
 - Domain login controller
 - User home directories and (group based) shares
 - Windows 95/98/ME/NT/2000/XP clients
- Remote access

Application Servers

- Cyrus IMAP mailbox server
- PostgreSQL database server
- Apache http server
- Zope web application server / CMS
- Hylafax
- Many others

Development Tools

- C++ / wxWindows
- Perl
- Tcl/Tk
- Php
- DHTML

Utilities

- VNC
- rdesktop
- VMware
- Snort
- FreeS/WAN

Go for IT

Adopt Linux and Open Source
where appropriate
Contact LOOK Systems
for advice and support

Jim McKinnell
01756 749922

jim@looksystems.co.uk
www.looksystems.co.uk