Samba4 in the real world

An update on Samba as a AD DC
Andrew Bartlett

• Samba team member since 2001
  • A Lead developer on the Samba4 project
• Employed by Cisco Systems
  • I'm very glad for their support, but I don't speak for them.
• Interested in centralised authentication technologies.
A Busy year
Samba4 for users

- Read Only DC support
  - Read only is harder than read-write!
  - A safe way into Samba4 use
- Real world deployment of multi-master replication
  - Including role transfer
- Extended schema support
  - MS Exchange schema
  - Custom schema
DNS integration

- Our biggest problem
  - Most common Samba4 setup issue is BIND configuration
  - Almost wrote our own DNS server!

- Dynamic DNS
  - Worked with BIND to add a dynamic loadable, read/write backends.
  - Plugin for BIND 9.8.0
    - This reads and writes our AD LDAP store
    - Passes kerberos tickets to Samba plugin (PAC etc)
Backup key protocol

- Back up per-desktop encryption keys for local data
- Like the Gnome keyring data
  - But not lost on password reset
- Important for real-world deployments
- Work done by our first production sysadmin
  - Matthieu Patou
Samba4 for developers and distributors

- WAF - New python based build system
  - ABI checking
  - Library versions
  - Parallel builds
  - Smaller builds (1200MB -> 100MB)
- More python commands
  - samba-tool (old 'net') now almost all python
Regular alpha releases again

- Jelmer Vernooij has taken on this role
- Ubtunu packages in his PPA
- GIT tree still recommended
  - If you have trouble, we will suggest an upgrade
- Don't wait until a final release
  - Samba 4.0 is still a while off
  - Delayed while we integrate two branches
Roadmap

• Samba 3.6:
  • Fileserver
  • Print server
  • NT4-like DC
    – With modern crypto to support Windows 7

• Samba4 alpha releases
  • AD DC

• Samba 4.0
  • A combined release with the best of everything
Lies, damn lies and statistics

• In the past year, across all of Samba:
  • 11359 Commits
  • 1.2 million lines of code changed
  • More than 70 Authors
Questions?