Samba4 in the real world

An update on Samba as a AD DC

SAMBA TEAM

SAMBA TEAM

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.

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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

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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)

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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

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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

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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

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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

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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

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Questions?

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