

Update on the Samba karmic stack

Jelmer Vernooij

Samba Team



May 25, 2009

Samba versions in use today

Update on the
Samba karmic
stack

Jelmer Vernooij

Samba 3

- ▶ Stable
- ▶ In production
- ▶ Old design (based around file server)
- ▶ Supports being a DC in a NT4-style domain or a member in a ADS domain

Samba Versions

"Franky"

Debian/Ubuntu

Clustering

Samba 4

- ▶ Started in 2004
- ▶ Playground for new features
 - ▶ Being an Active Directory domain controller
 - ▶ WMI (WBEM implemented on top of DCOM)
 - ▶ Proper DCE/RPC infrastructure
 - ▶ Basis for OpenChange client/server
 - ▶ Very well tested (code coverage: 50%)

Problems

- ▶ Not all features available in both versions
- ▶ Duplication of developer effort
- ▶ Slight divergence in configuration file format

“Franky”

- ▶ Started about a year ago
- ▶ Slow merge of Samba 3 and Samba 4 codebases
- ▶ Infrastructure to run a hybrid server, broadly:
 - ▶ Samba 3 for file serving
 - ▶ Samba 4 for directory services
- ▶ Fixing the differences in the configuration file syntax

Shared code

Update on the
Samba karmic
stack

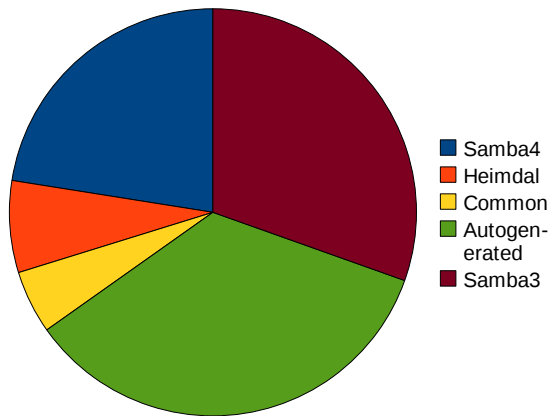
Jelmer Vernooij

Samba Versions

"Franky"

Debian/Ubuntu

Clustering



Current Status

- ▶ Samba 3 / Samba 4 conflict at the moment
- ▶ Samba 4 includes a copy of Heimdal Kerberos
- ▶ Samba 4 and OpenChange exist only in *experimental*

Plans for the next few months

- ▶ *samba-common* package responsible for *smb.conf*
- ▶ Alternatives for conflicting utilities (*net*, *testparm*, ...)
- ▶ Making Samba 4 use system Heimdal Kerberos
- ▶ Easy way to set up a hybrid server

- ▶ CIFS clustering (*"clustering = yes"*)
- ▶ Proper locking support
- ▶ High-Availability when used on top of a clustered file system
- ▶ Introduced in Samba 3.3
- ▶ Enabled in Samba Karmic