

ldb

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(Please ask questions during the talk)

tdb

- Samba2 - tdb database
 - key-value pairs, as binary blobs
 - small, fast
 - multi-reader, multi-writer
 - 17 small databases
- What about multi-key indexing?
 - possible, but very tedious
 - really need a bit more structure

ADS and LDAP

- To be an ADS server, we need LDAP
 - Windows clients make direct LDAP calls
 - only need what windows clients send
- Need tight integration
 - with krb5 ...
 - and SASL
 - and SPNEGO
 - and everything else!

The usability problem

- Oh the embarrassment!
 - ADS - Microsoft has taken traditional unix subsystems and integrated them better than the originals
 - krb5 + DNS + LDAP + RPC + CIFS
- For Samba, the problem was LDAP
 - OpenLDAP + SSL + SASL + krb5 == nightmare
 - How important is the standards focus of OpenLDAP for Samba?
- The solution was ldb

ldb - sane but minimal 'LDAP'

- Is LDAP without a schema useful?
 - Yes!
 - An empty file is a valid database
 - for embedded LDAP, trusting the application is OK
- ldb grows up
 - schema module added
 - ldap protocol server added
 - still allows for sane 'no schema' embedded usage

Demo Time!

Crazy Ideas

- replace /etc/passwd with a ldb?
- Use to configure kde?
- Use instead of XML?
- Store SCM information, like a SCCS file?

Questions?