Samba 4.0:
Open Source Active Directory Services On The Horizon
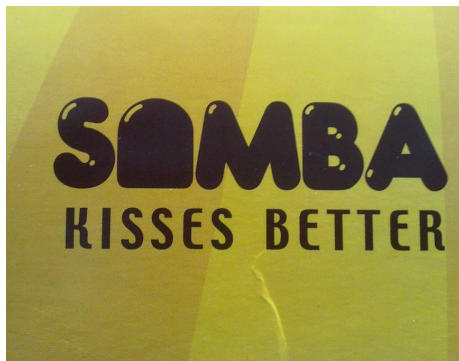
CeBIT Open Source Forum 2012

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SerNet / Samba Team

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about:Samba

- since 1992
- *The* Open Source SMB/CIFS/SMB2 file server
- http://www.samba.org/
- production proven and reliable
- performance, scalability
- used in many products/appliances
- some 15 − 20 active core developers
- two development streams: Samba3 / Samba4

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- OpenSource/Linux centric company in Germany
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- today: 40-50 employees
- Samba department: 5 Samba core team members including the release manager
- Samba development and consulting as a service
- sambaXP : annual samba developer and user conference

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- current: 3.6.3
- file server (`smbd`)
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- windows AD domain member (`winbindd`)
- windows NT (like) domain controller
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- development since 2003/2004 (release of Samba 3.0.0)
- started as complete rewrite
- original target: scale-out-clustering (now in samba3)
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Samba 4.0 ... this year?

- Some features of AD are "ready"
- Some others are not.... ☺
- 4.0 will be the successor of 3.X
- ⟹ file server should work like Samba3's `smbd`

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- mid 2008:
- use the best of both worlds
    - ad-server of Samba4
    - smbd of Samba3
    - rpc-services mix both worlds
- and stitch them together...

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source: Wikimedia Commons

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Work done

- Combined Code base: `source3/` and `source4/`
- more and more commonly used libraries and subsystems (tdb, talloc, tevent, pidl, librpc (parts), cldap, ...)
- integration of `smbd` with `samba` (s3fs)
- DNS: started internal DNS server (for ease of use) mature integration with bind 9.8.1

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What Does Already Work?

- single domain single DC
- multiple DCs with some hacks (FS replication)
- joining workstations, automatic dns updates
- management with Windows-tools (mmc, active directory users and computers, ...)
- group policies (management via mmc)
- schema extensions: e.g. Zarafa-integration (open source group ware)

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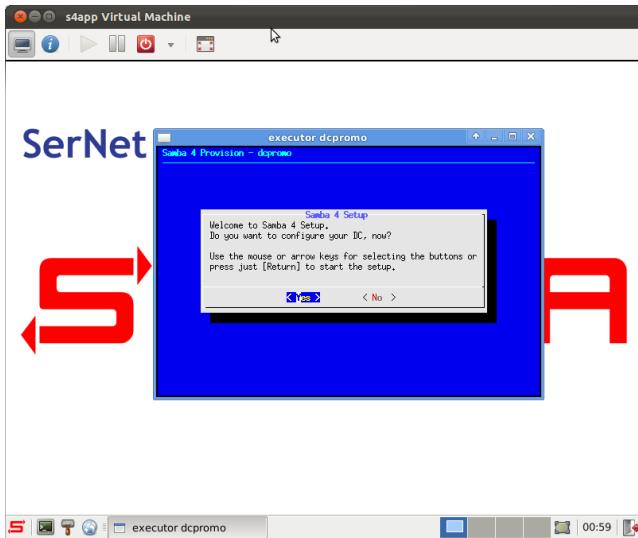- schema extensions: e.g. Zarafa-integration (open source group ware)

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SerNet Samba4 Appliance

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Demo...