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Motivation

Operating Systems Market Share (Desktop and Server)

- Microsoft: 95.50%
- Apple: 2.70%
- Linux: 1.80%

Data source: Süddeutsche Zeitung, 2006-04-05
Mandatory Requirements Overview

- Trust relationship creation (domain join)
- Pluggable Authentication Modules (PAM)
  - Single Sign On Authentication (Kerberos)
- Name Service Switch (NSS)
- X11 Display Manager integration (KDM, GDM)
- GUI system configuration utilities (YaST)
Mandatory Requirement Authentication

- Seamless PAM Integration
  - Abstract complex SSO to fit into PAM (incl. MS error codes)
- Kerberized PAM Winbind
  - Automatic ticket retrieve, renew, and refresh
- Account Policies
  - Password, Logon hours, Lockout
Architecture Overview

PAM aware applications (gdm, kdm, login, ...)

NSS
nscl
nscd
nss_compat
nss_winbind

Kerberized Apps (Mailer, Browser)

PAM
pam_winbind
pam_unix2
pam_mkhomedir

Kerberos Credential Cache

Offline Cache

winbind

Windows DC (Active Directory)

LDAP, Kerberos and various MS protocols

Kerberos

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Supplementary Requirements

- Disconnectedd use (offline mode)
- SSO File Access
  - libsmbc client using apps (konqueror, nautilus)
  - Linux-CIFS kernel client
- SSO Printing
YaST Integration (1)
YaST Integration (2)
Samba Winbind AD Integration Demo
To do

- Domain logon
  - Accessing CIFS Home Directory
  - Group Policy Support (GPO)
  - Roaming Profiles
  - Logon Scripts
- Machine Account Password Changes
- Localisation (PAM and error messages)
- GUI integration for Services For UNIX (SFU)
- NTLM (non kerberized) SSO for Firefox
- Site support
Available Resources

• SUSE Linux Enterprise Desktop 10
• http://openSUSE.org/Samba
• Samba.org samba-docs subversion (soon)

Questions & Answers