

Schlomo Schapiro

Senior Consultant 2007-04-25



- Background Information
- Design Choices
- The New Desktop
- Samba Trouble & Solution



The Customer Case

Landesvermessung und <u>Geobasisinformation</u> Brandenburg

- State office for geo-information and survey
- Collecting, storing and developing data relating to location on the surface of the earth.
- Responsible for the production and publication of the official maps and for keeping the official land register of the Federal State of Brandenburg.
- Located in Potsdam
- Heavily IT dependant



Digital Map Making

- Department size ~ 30 map makers
- **Computer based (specialized CAD application)**
- **SICAD**
- **2** IRIX application servers, 2 Linux database servers
- Users running Windows & Exceed as desktops
- Slow (load times up to 5 min !)
- Batch processing on central servers
- SPOFs
- Who knows how to admin IRIX ?





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System Layout

- Migrate SICAD to Linux
- User desktop runs Linux
- Use existing user accounts from existing AD
- No need for application server
- Linux database servers
- Central file storage (NFS) for work area
- Central file storage (NFS) for home directories
 - No personal data on user desktop
 - Users can work on any computer
- **I** Test & Development on VMware ESX



Requirements of a Linux Desktop

- Integration into existing AD environment
- No extra management hassle for IT staff
- As simple as possible don't confuse the user
- Easy to customize menu system
- "Fool proof", no user help desk for Linux desktop
- Commercial support and security updates (Novell Linux)



SLED 10 & fvwm

- SuSE Linux Enterprise Desktop 10
- AutoYaST scripted installation (in 25 minutes ready)
- All required software included (OpenOffice ...)
- l fvwm:
 - fixed system-wide configuration
 - simple menu system
 - fast
 - does not look like Windows
 - "Consultants Preference"
- Windows apps through Citrix, fvwm menu integration



Why not GNOME & KDE ?

- **KDE & GNOME very well integrated in SLED 10**
- Looks like Windows confusing for Windows users
- Users can change too many things, break GUI
- Users can try too many things no Linux hotline
- Slow & Sluggish
- Difficult to enforce central (NFS based) configuration and menu system



The Project

- Total of 25 consulting days
- Development & Pilot in 17 days
- Rollout in May / June
- End-user training: ¹/₂ day workshop & 2 hours personal migration / coaching
- Trouble to find hardware (Novell YES certified and really working well)
- Overhaul of internal processes each day a new detail
- Major effort with documentation (DokuWiki)





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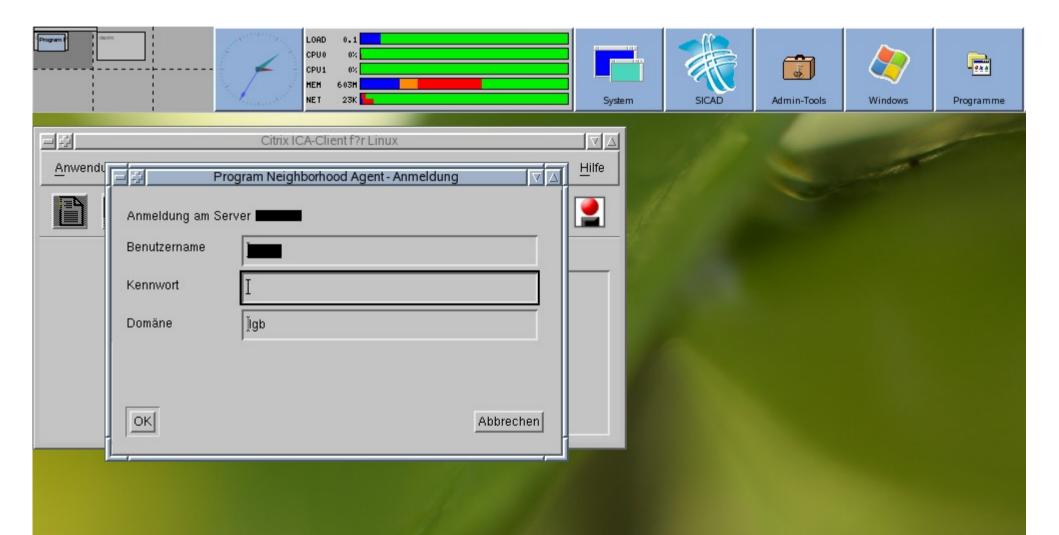


Login

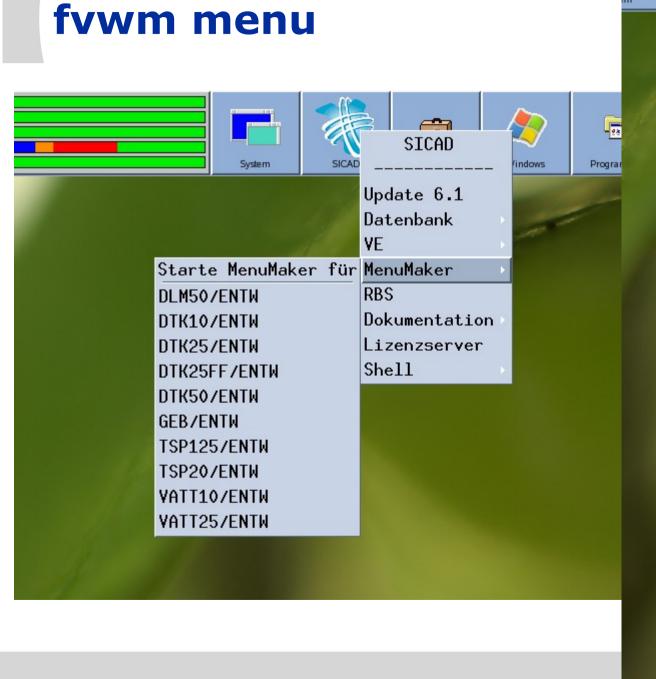
| Welcome at | pdtk01 |
|-----------------|-------------------|
| Login: <u> </u> | |
| | eiraely, ekserere |
| | simply change |



Citrix PNA login

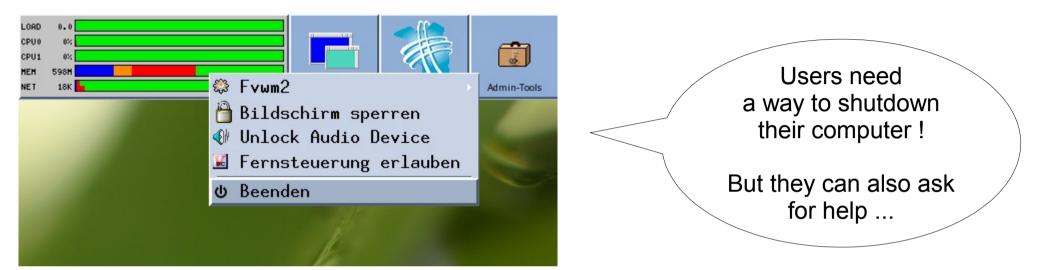


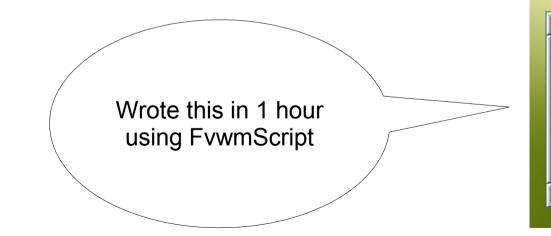














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Windows 2003 R2 Domain

Includes 1/2 SFU

Ancient technology (NIS)

Management of UNIX groups independent of Windows groups

Linux connectivity:

nss_Idap

nss_pam

Works without problem

Inconvenient

| pdmroot Propert | ies | | | | ? × | | |
|---|----------------|---------------|-----|----------------------------|------|--|--|
| General Object | Members | Memb urity | | Manageo UNIX Attributes | | | |
| To enable access to this group for UNIX clients, you will have to specify the NIS domain this group belongs to. | | | | | | | |
| <u>N</u> IS Domain: | lgb | | | | | | |
| <u>G</u> ID (Group ID): | 9999 | | | | | | |
| <u>M</u> embers: | | | | | | | |
| Junkel, Jens Schlomo Schaj Strickrodt, Jens Zander, Hagen | 3 | | | | | | |
| Add | <u>R</u> emove | | | | | | |
| | | OK | Can | cel 🛛 | pply | | |



Samba 3.0.24

First SuSE build broken (!), second (-54) OK

Winbind in AD / RFC2307 mode:

passdb backend = tdbsam

- idmap backend = ad
- idmap uid = 100-20000000
- idmap gid = 100-20000000
- winbind nss info = rfc2307
- Works very well & convenient
- No more double group management
- Clients use LDAP (pam / nss), no domain join required



More Features

- Winbind on clients (domain joins ?)
- Kerberized SSH between clients and to servers
- Service management
- Login scripts
- Hopefully, seamless Citrix login
- Let people use more Linux applications



Thank You ! Questions & Answers



Schlomo Schapiro pro|business Berlin AG Potsdamer Platz 11 10785 Berlin Telefon 030 / 25 93 78-23 Telefax 030 / 25 93 78-22



www.probusiness.de

sschapiro@probusiness.de







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Kontakt

pro business Berlin AG D-10785 Berlin

Potsdamer Platz 11 D-10785 **Berlin** Tel.: 0 30/25 93 78-0 Fax: 0 30/25 93 78-44

pro business

Otto-Volger-Straße 19 D-65843 **Sulzbach** Tel.: 0 61 96/5 61 42-10 Fax: 0 61 96/5 61 42-11

pro business Berlin AG D-01067 Dresde

D-01067 **Dresden** Tel.: 03 51/6 46 30-13 Fax: 03 51/6 46 30-11 pro business Max-Eyth-Straße 35

D-71088 **Holzgerlingen** Tel.: 0 70 31/4 63 83-65 Fax: 0 70 31/4 63 83-66

pro business AG Expo Plaza 1 D-30539 Har

Expo Plaza 1 D-30539 **Hannover** Tel.: 05 11/6 00 66-0 Fax: 05 11/6 00 66-155 **pro business** TAG
Stadttor 1
D-40219 **Düsseldorf**Tel.: 02 11/38 54 66-0

Fax: 02 11/38 54 66-99

pro business Hamburg AG D-22767 H Tel.: 0 40/2

D-22767 **Hamburg** Tel.: 0 40/18 88 28-0 Fax: 0 40/18 88 28-28
 Dro
 Dusiness
 Graf-zu-Castell-Straße 1

 D-81829
 München

 Tel.:
 0
 89/99
 22
 95-0

 Fax:
 0
 89/99
 22
 95-11



info@probusiness.de www.probusiness.de

