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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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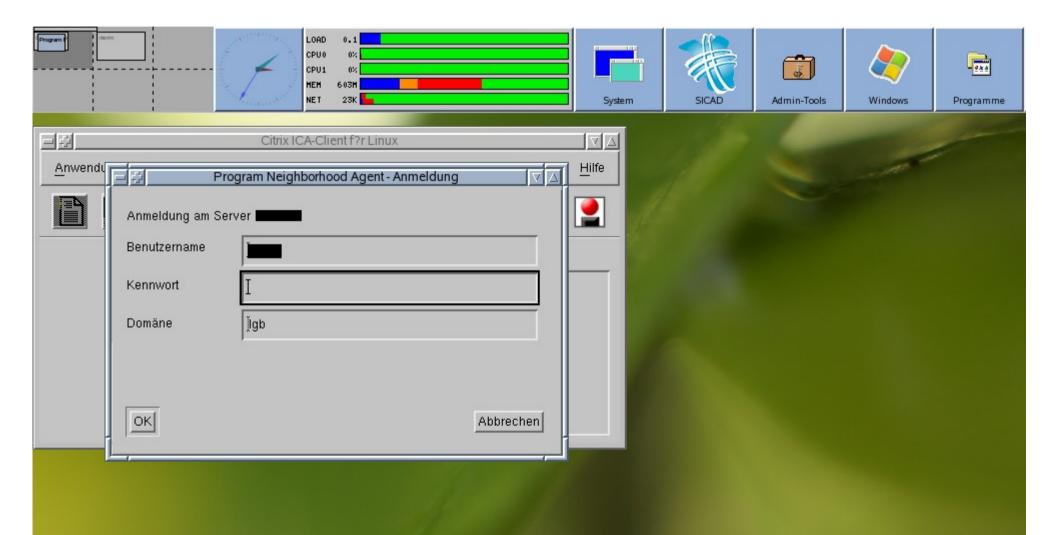


Login

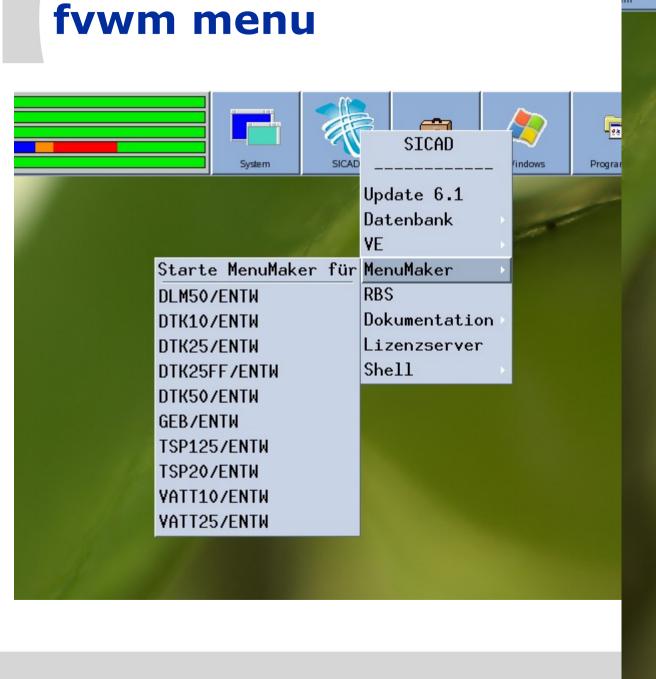
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	simply change



Citrix PNA login

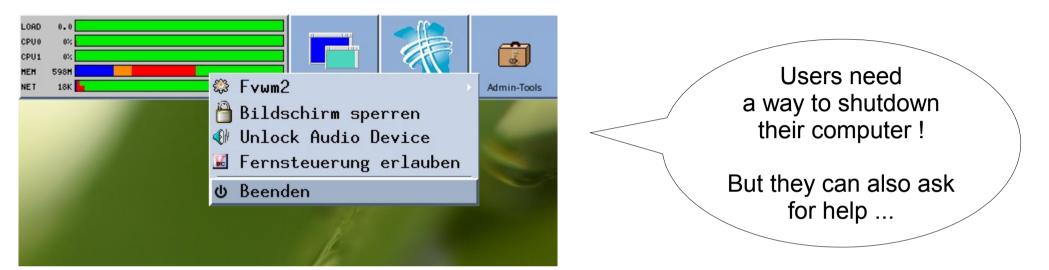


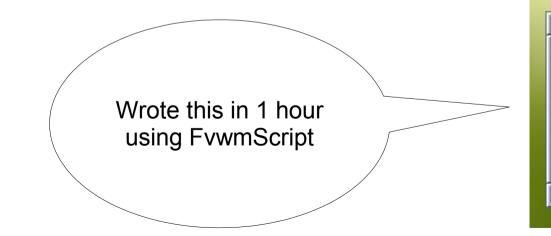














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Windows 2003 R2 Domain

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



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redhat. CERTIFIED ENGINEER

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