

Windows Roaming Profiles with OpenAFS Lars Schimmer

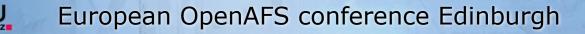
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Why at all?

- Central management
- Central backup
- Central templates
- No data on workstations
- Users get their own setup on every workstation they do login
- One filesystem for all means





Why not?

- Transfer of profile on every login
- Huge profile takes ages to load
- Not every software is profile aware
- Loss of token before logout
- Loss of network
- Possible loss of data on black out
- Users need to clean profiles on their own not to get them to big



How does it work?

- Workstations & Users in AD Domain
- Login against Domain (krb5-auth)
- Ticket/Token at login
- Windows fetches profile data from OpenAFS path (e.g. \\AFS\cgv.tugraz.at\home\user\winprofile. V2)
- User is logged in and works on local data
- No data is synced to OpenAFS yet!



How does it work? Pt. 2

- On logout all data is synced to OpenAFS path
- Local profile data on workstation may be removed while syncing or may be left on workstations harddrive
- In case of error, syncing will be stopped and logoff might break



Preparation of AD

- Given: working OpenAFS and AD setup, Users obtaining tickets/tokens from AD servers (or trusted krb5 servers)
- This for: single-DES enabled (STILL)
- For profiles enable "Do not check for user ownership of roaming profiles Folders" Policy in Policies/Administrative/Templates/Sytem/Users Profiles – Windows does not know anything of ACLs!
- Set Policies on roaming profiles as you like (e.g. remove after logout)
- Install the UNIX extension to the AD, for setting home path and UID on users attributes. This enables your users to login to unix and windows with same account

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Works in OpenAFS

- Create volumes for users home and win profile
- Create mountpoint winprofile.V2 for win profile
- Important: .V2 is added automatic for Windows Vista/7/8 profiles in AD
- Create users with IPs of AD servers
- Create a OpenAFS group which contains the AD IP users
- Set ACLs to lookup for the path into users winprofile.V2 for the OpenAFS-AD group
- Set ACL to read/write for user into profile path



AD User Settings

- In User Properties in profile tab
- Enter the UNC path to the profile directory, e.g.
- <u>\\AFS\cgv.tugraz.at\home\schimmer\winprofile</u>
- Take care: HERE do not enter the .V2, it will be appended automatic by Windows AD!
- In the UNIX attributes tab, enter the UID as OpenAFS user ID, the shell as wanted and the Home Directory as e.g.

<u>\\AFS\cgv.tugraz.at\home\schimmer</u>





Ready to go

- Thats all!
- Now we are ready to test it:
- Go to a workstation and try to login as the prepared user
- After a Login/Logoff cycle, the OpenAFS directory should contain the usual windows profile content
- => it works!



Advanced

- Some more:
- Folder redirection
- Predefined skeleton profile on every login (clean system)



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