Experience on Single-Sign-On-Test with UNIX Backend and SAS 9.3

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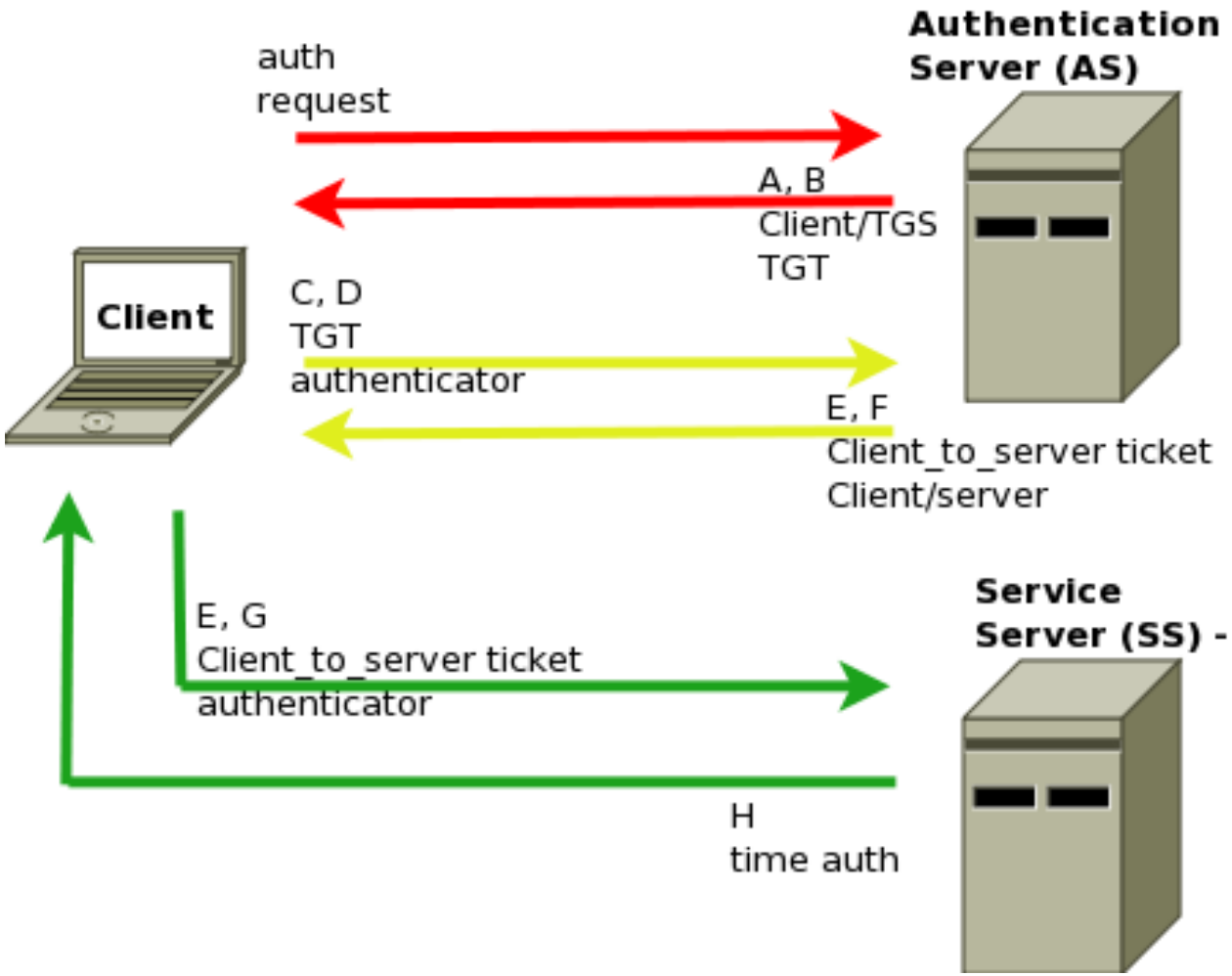
Introduction SSO

- Single Sign-on
  - One authentication, then access to the services (applications)
- technologies:
  - Kerberos
  - Smart card
  - …
- SAS: Integrated Windows Authentication
  - SPNEGO, Kerberos,…

Kerberos (protocol)



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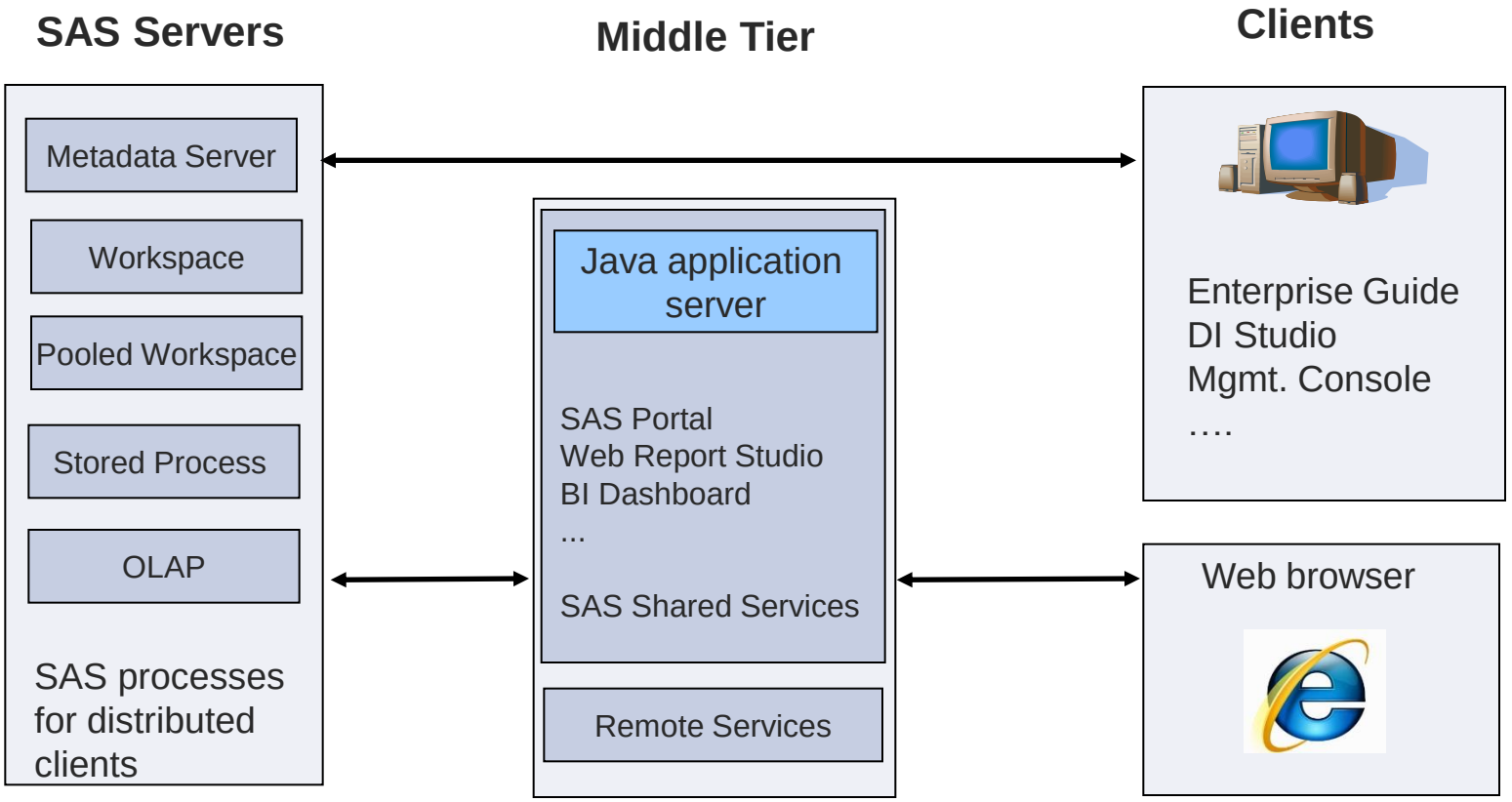
1 Status

2 **SAS components**

3 SSO Web

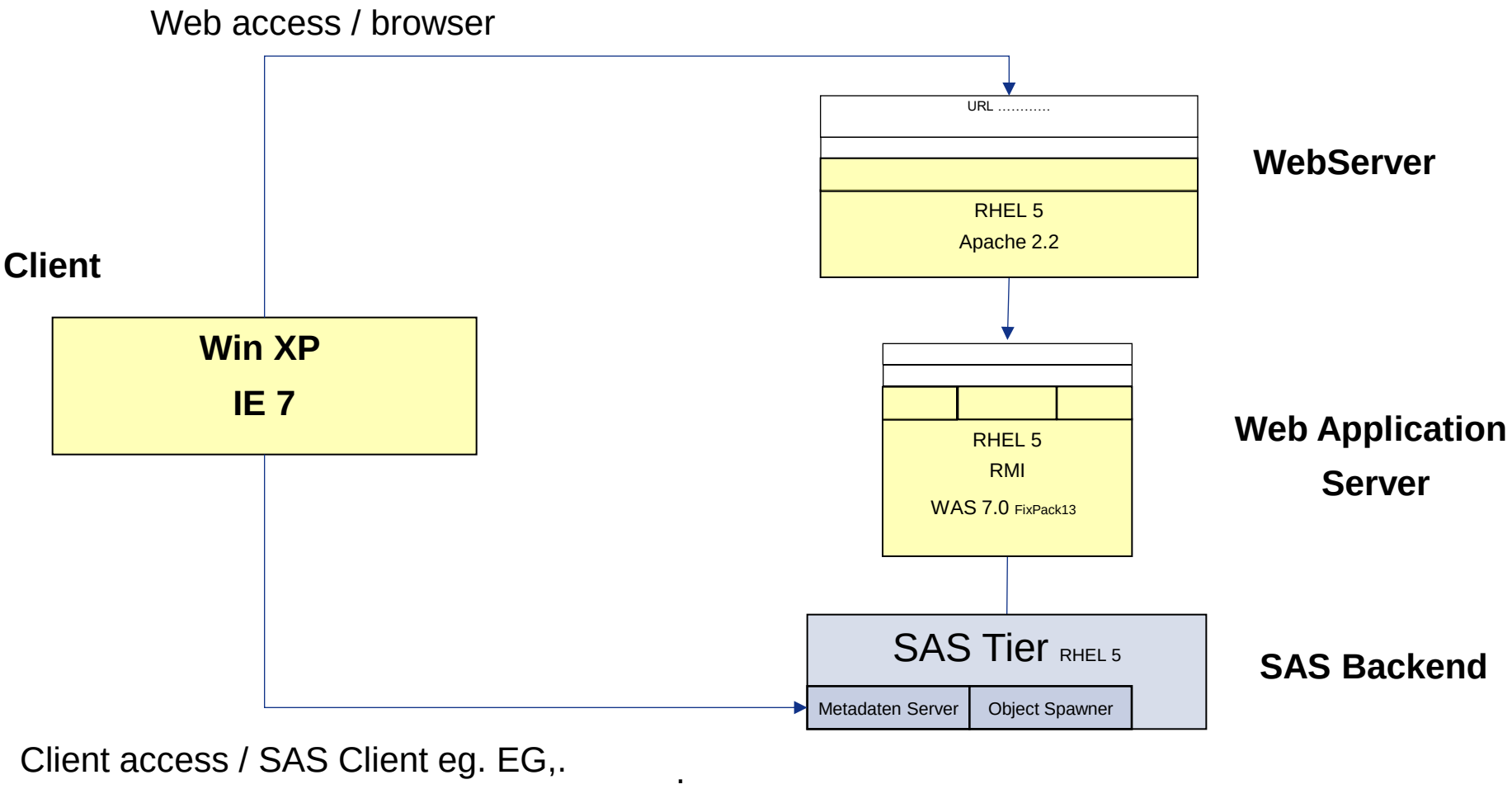
4 SSO Clients

SAS components



- **authentication for client applications**
- **authentication for web access**

SAS-9.3 test architecture



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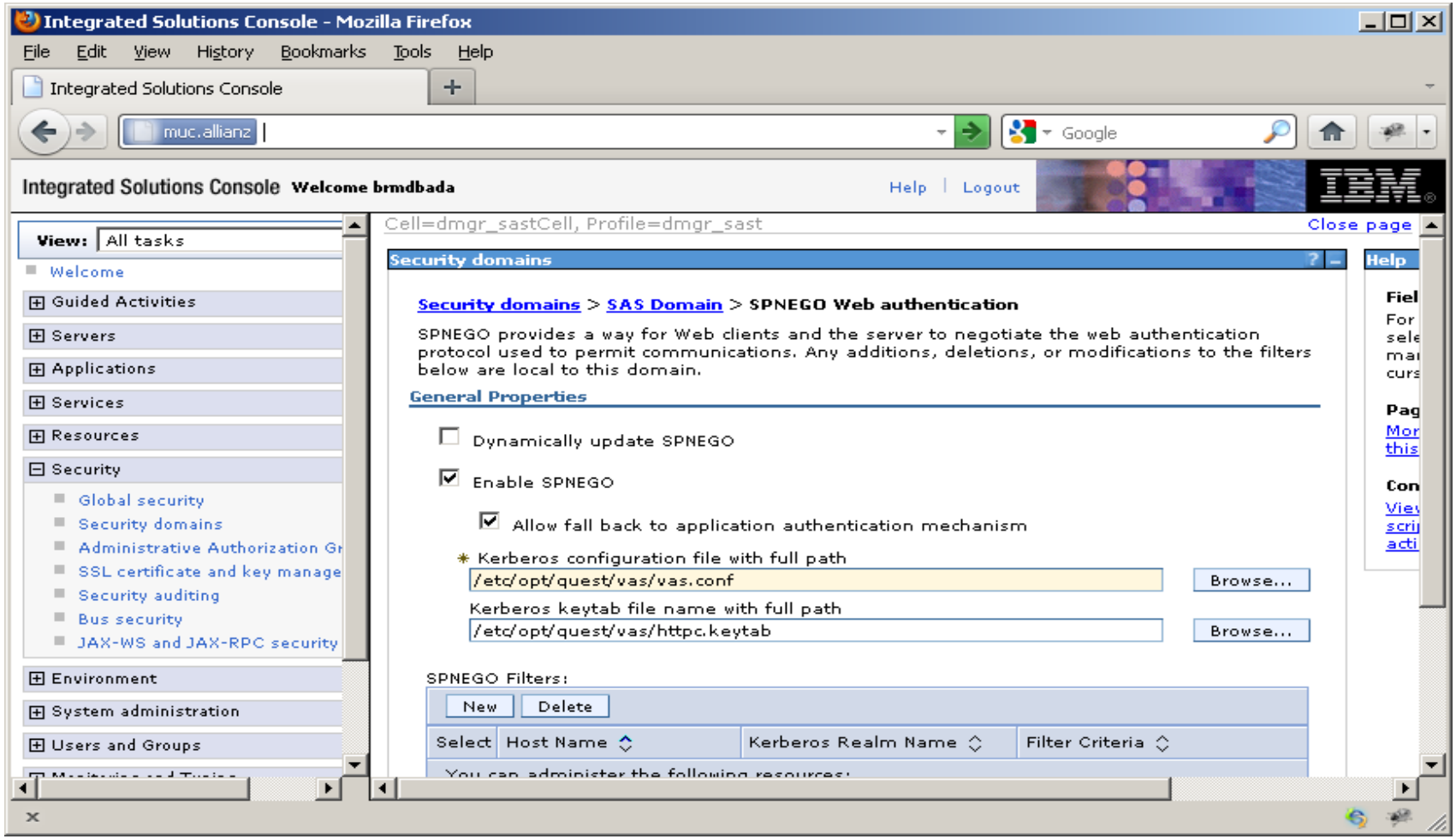
Kerberos and Web Access

- base is web authentication
  - Authentication outside from SAS
  - Only authorization is done from SAS, no physical user on the SAS server needed
- Configure Kerberos
  - Create a SPN (Service Principal Name) -> Keytab File
- Configure the application Server
  - SPNEGO Negotiate the authentication protocol
  - Kerberos configuration
- Web browser configuration
  - enable SPNEGO

-> SSO for Web access (also possible with SAS 9,2)

Sample Configuration



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Kerberos SAS using Quest Authentication Services

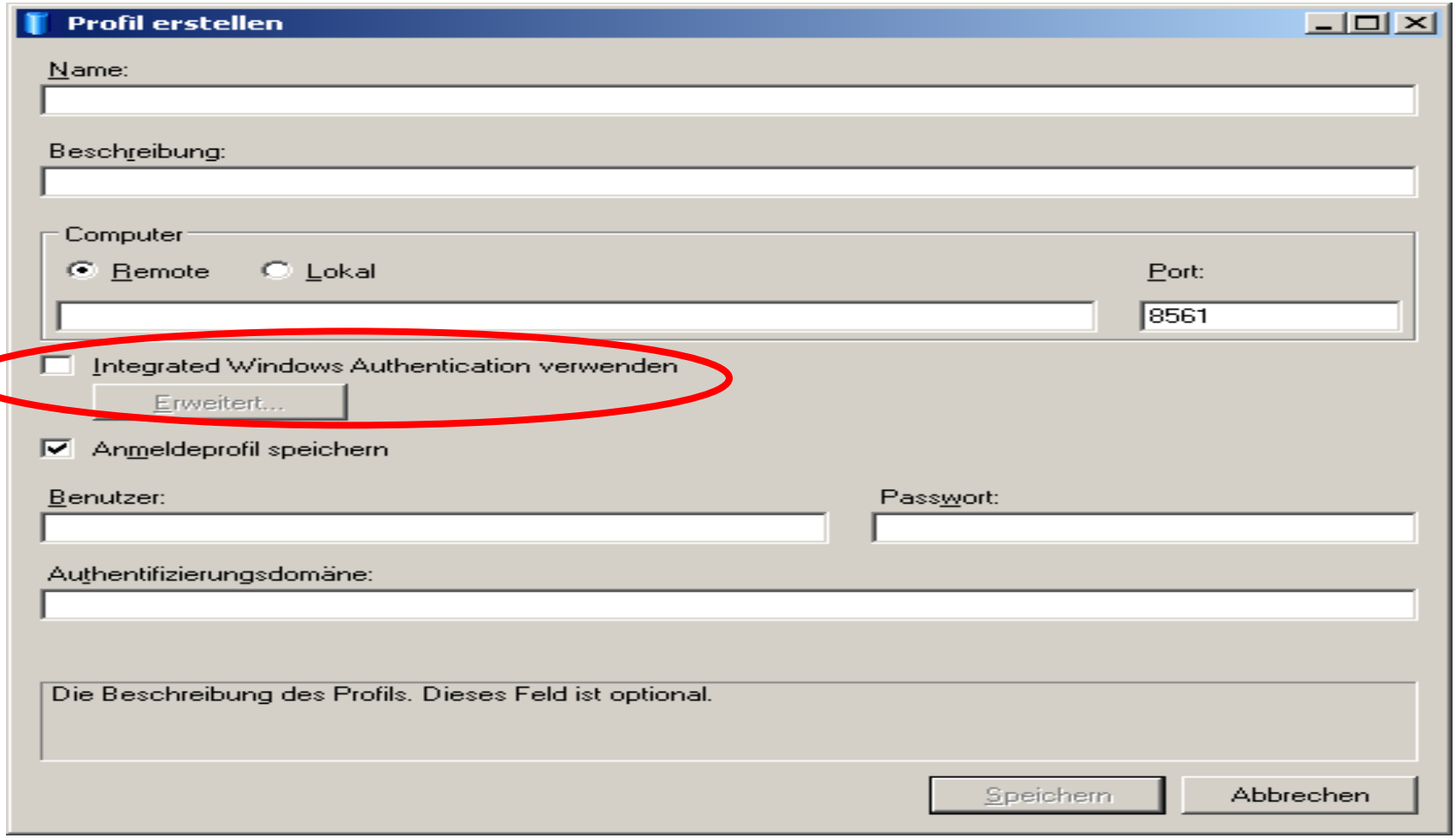
- SAS use Quest Authentication Services
  - No native support of the operating system Kerberos implementation
  - Version 4 required
  - Active directory configuration necessary
- Quest Authentication Services
  - deep integration of UNIX systems into active directories
  - Supports Linux, Solaris, AIX, HP-UX, OS X ,..

- Install and configure Quest Authentication Services
  - Install Quest authentication Services and configure
  - Quest (join Domain,….)

Kerberos SAS using Quest Authentication Services

- Configure Quest for SAS
  - Create a SPN (Service Principal Name) and keytab for sas
  - Quest Libs into the Path (SAS is using the Quest API)
  - Test the config with Quest test pack ….
- Configure SAS for Kerberos
  - Create entry /etc/pam.d/sasauth
  - /…/utilities/bin/sasauth.conf set to pam
  - Publish the quest config to sas in /…/Lev1/level_env.sh
    - KRB5_KTNAME=/etc/opt/quest/vas/SAS.keytab
    - export KRB5_KTNAME
  - Restart the SAS servers
- -> Test

Config the Clients eg. Enterprise Guide



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