

Connecter Linux à un AD

Redhat IDM et sssd

Par Nicolas Zin - architecte technologique - Savoir-faire Linux

Agenda

- Rappel sur kerberos
- Active Directory et Redhat IDM
- Les différentes facons de connecter une machine Linux à un Active Directory
 - Connection directe
 - Trust AD-Redhat IDM

Rappel sur kerberos



HOST/SERVEUR.DOMAIN.COM
HTTP/SERVEUR.DOMAIN.COM



KDC

HOST/KDC.DOMAIN.COM



user@DOMAIN.COM



HOST/SERVEUR.DOMAIN.COM
HTTP/SERVEUR.DOMAIN.COM



KDC

HOST/KDC.DOMAIN.COM

(1) login

(2) TGT



user@DOMAIN.COM

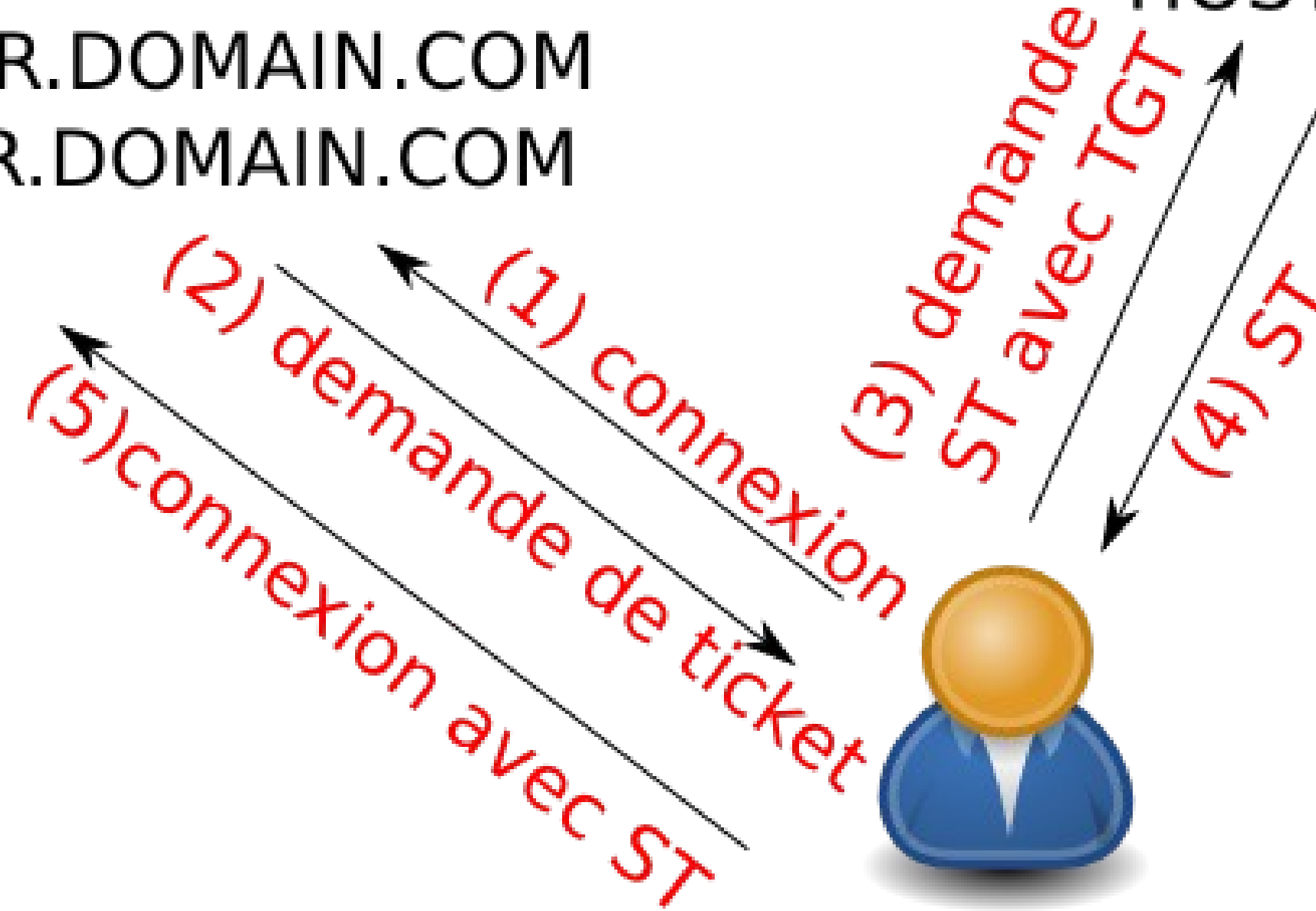


HOST/SERVEUR.DOMAIN.COM
HTTP/SERVEUR.DOMAIN.COM



KDC

HOST/KDC.DOMAIN.COM



user@DOMAIN.COM

Redhat IDM

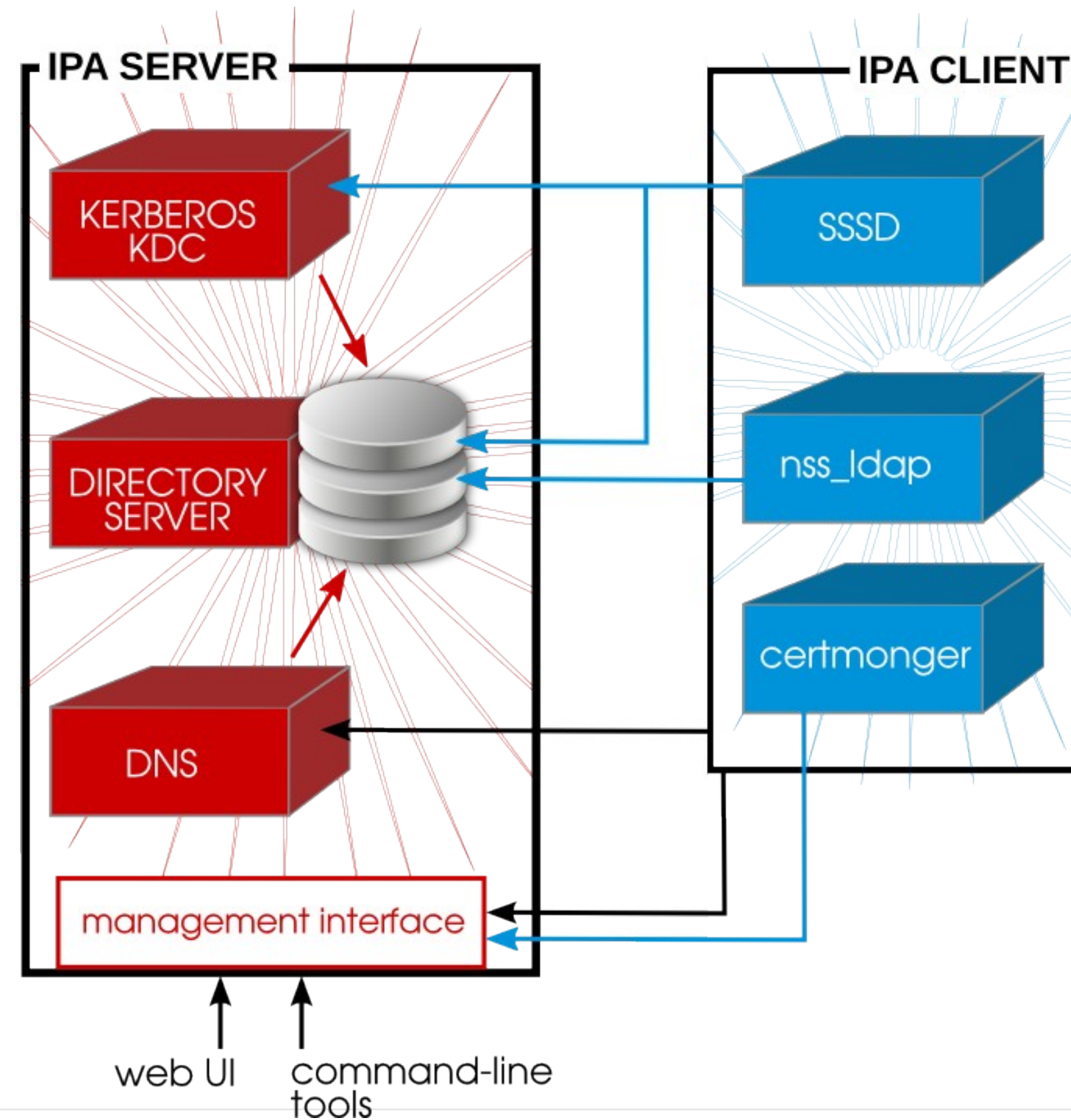
Structure interne

Active Directory =

- Kerberos (+ntp)
- Ldap
- MSRPC (via SMB)

Redhat IDM / FreeIPA =

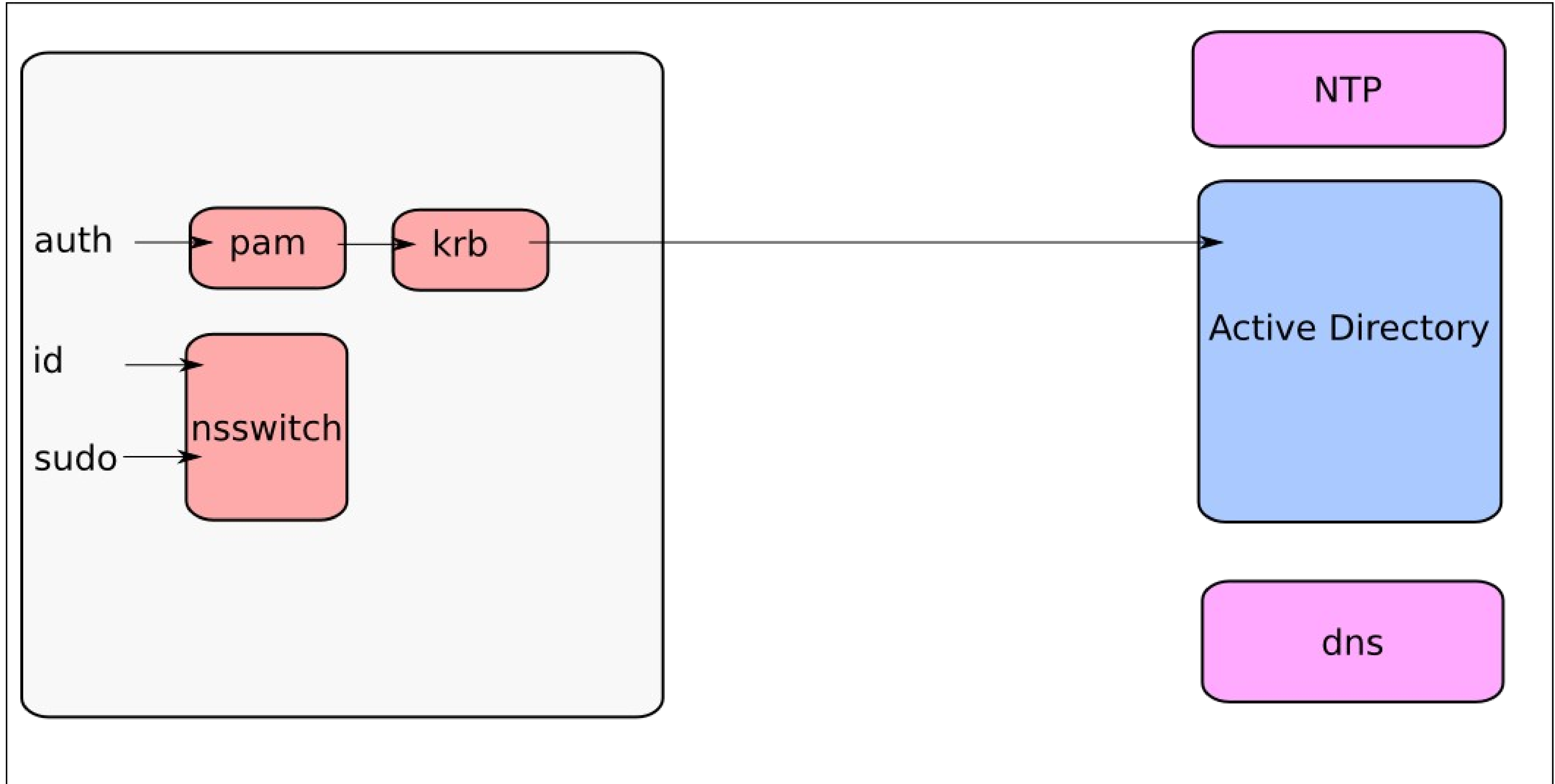
- Kerberos (+ntp)
- Ldap
- dogtag

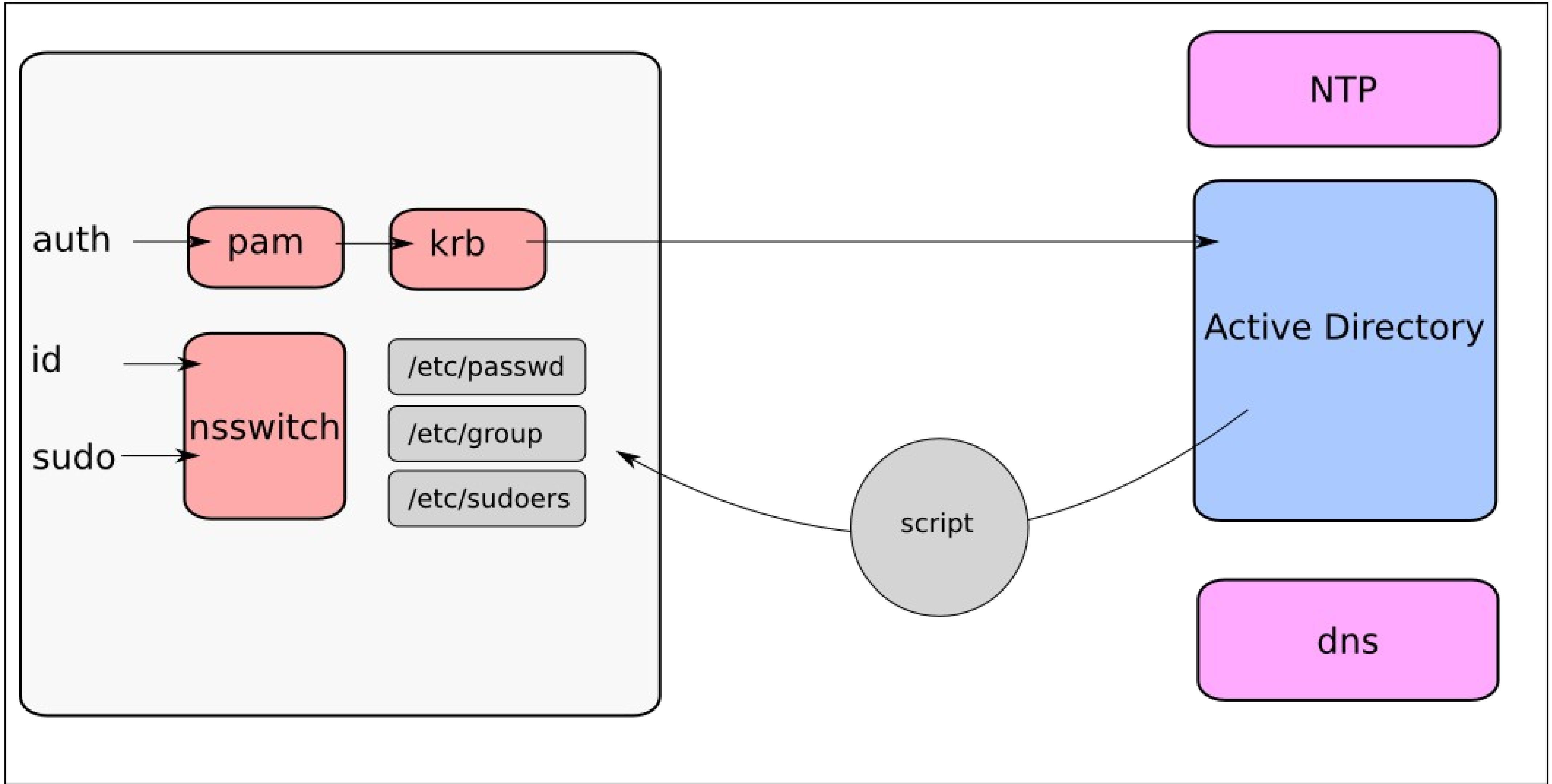


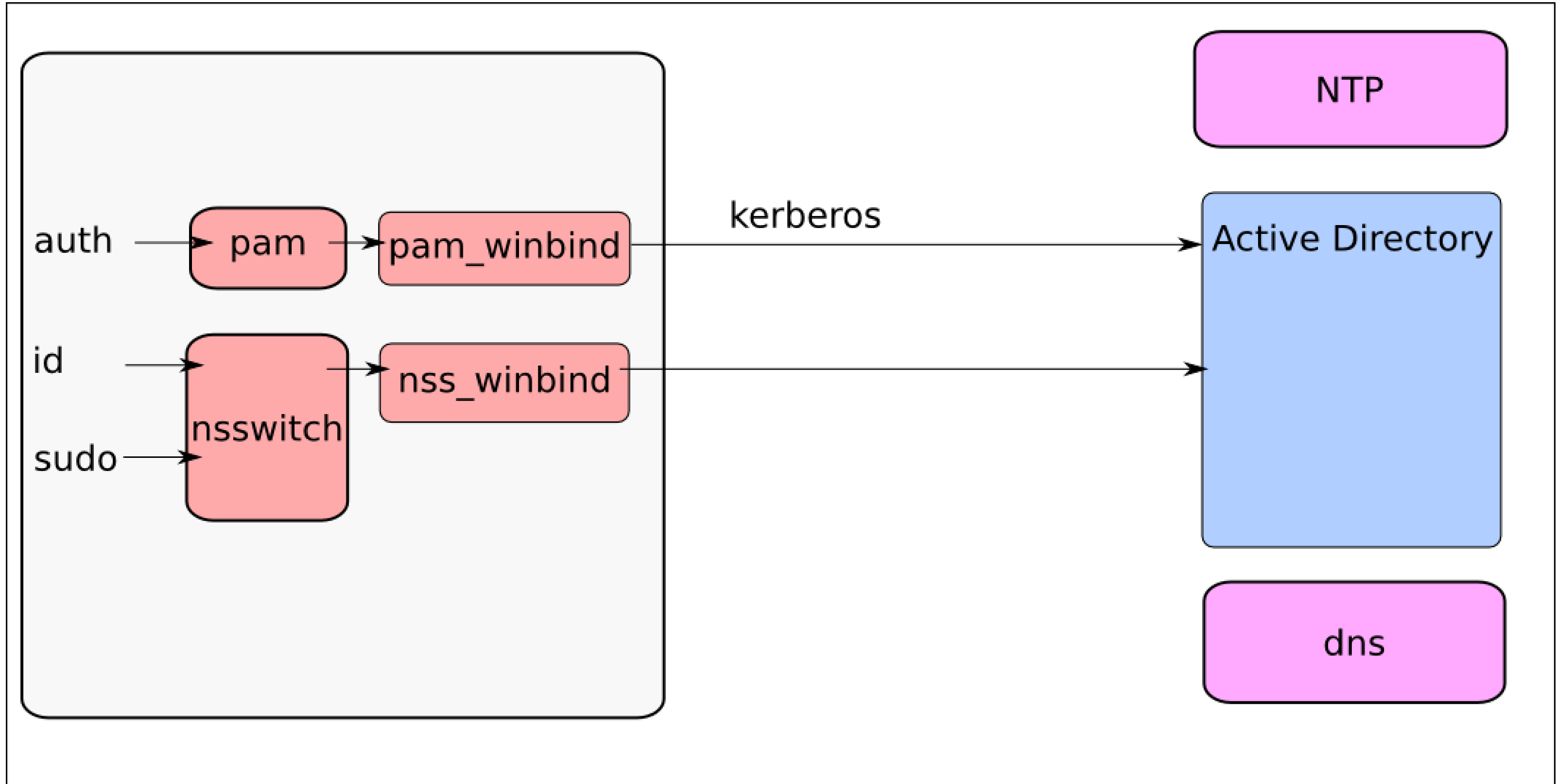
Connection Linux - AD

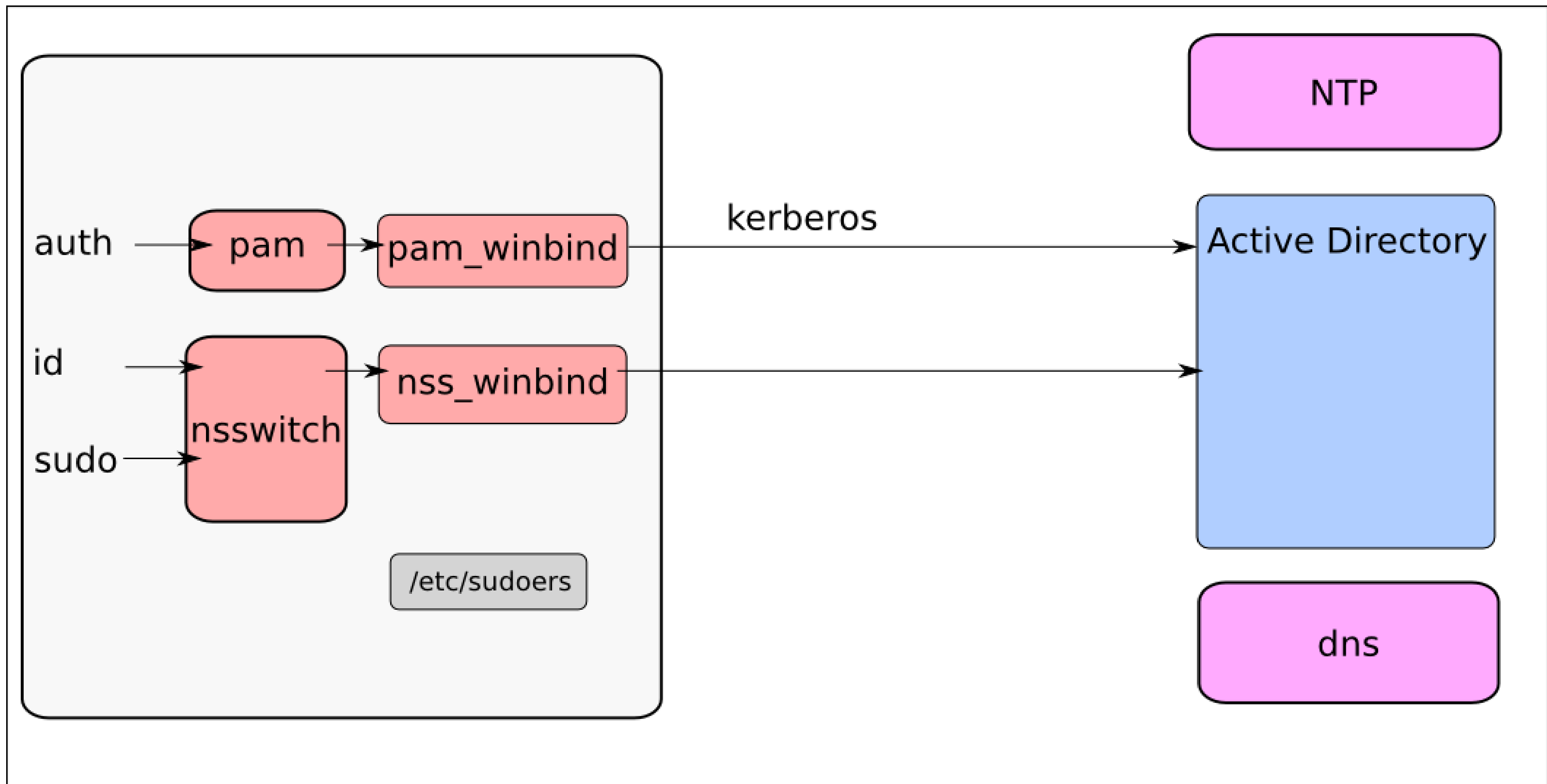
But

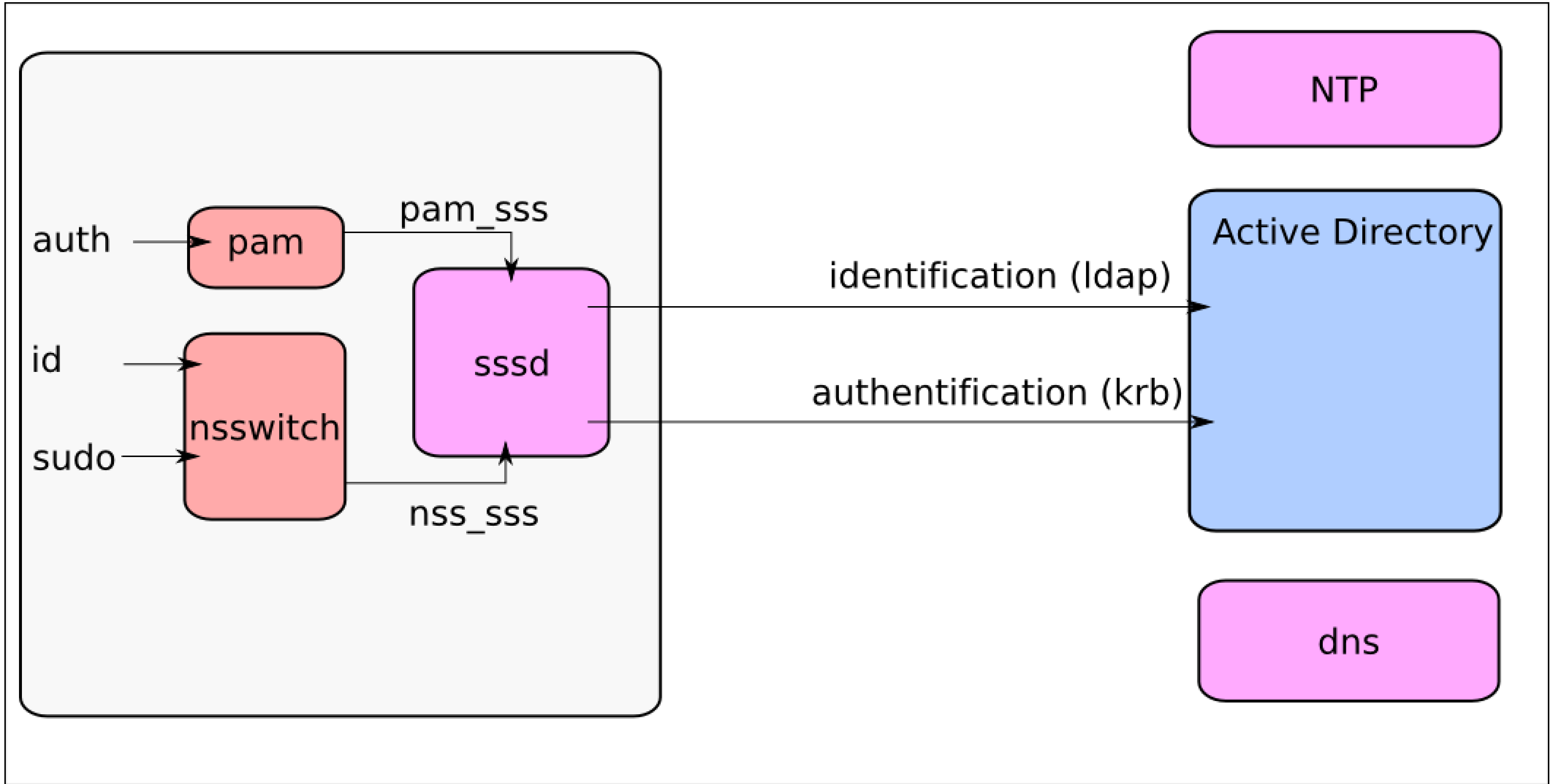
- Des utilisateurs windows doivent pouvoir se connecter aux machines Unix avec leurs login/password
- Si possible on centralise les règles sudo

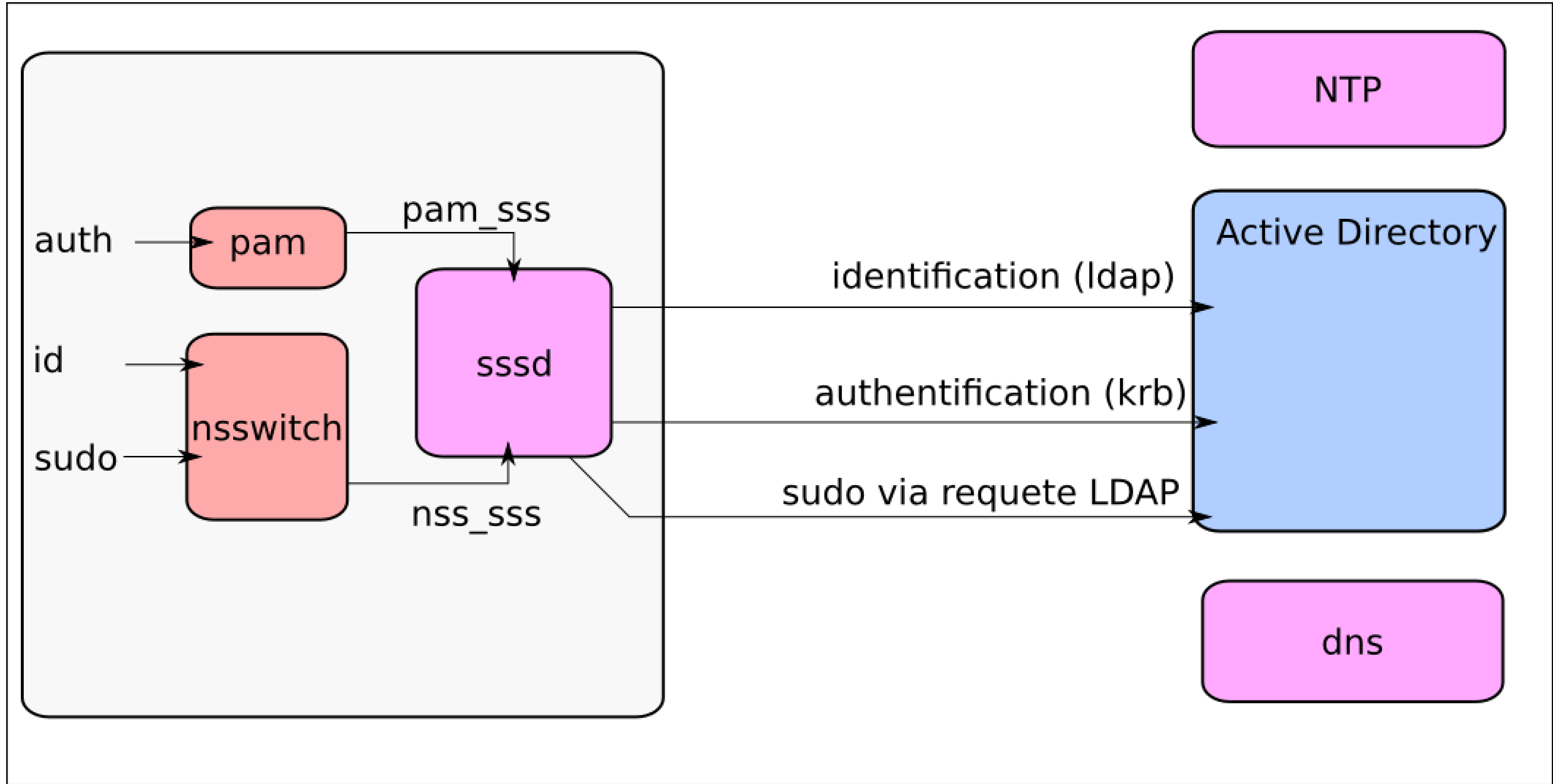


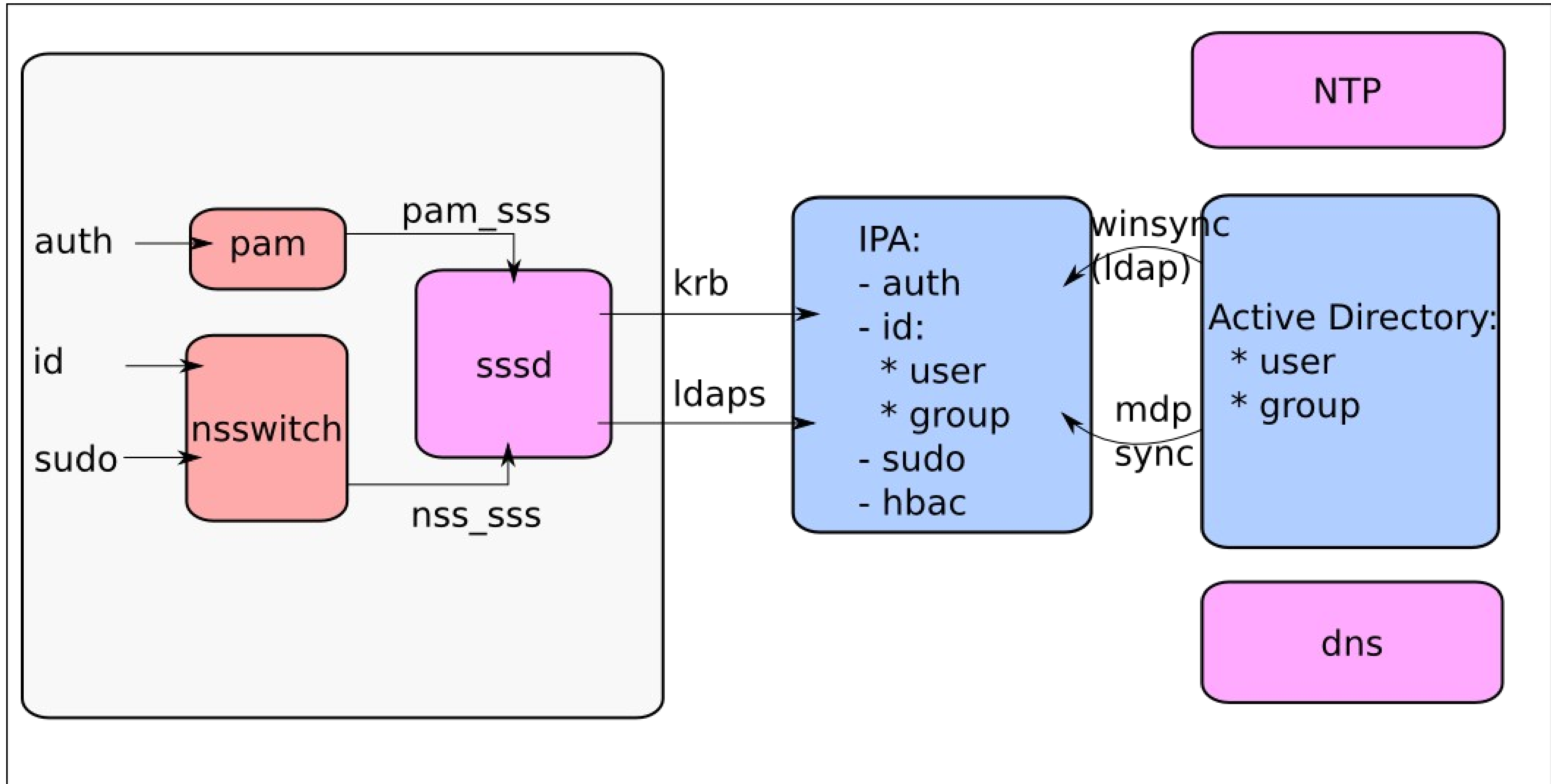


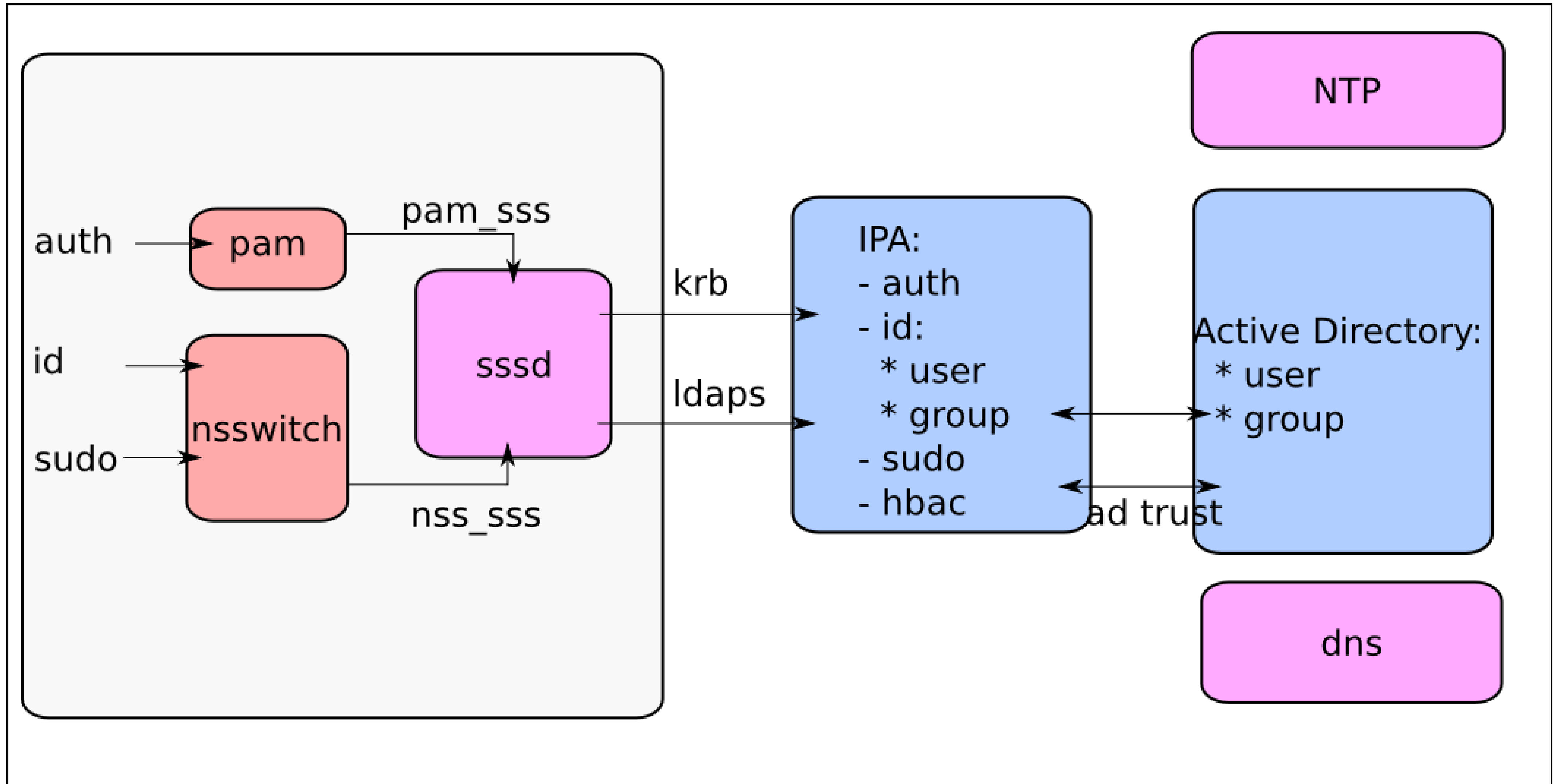












Connection Linux - AD avec sssd

serveur Linux - AD

- - installation des Service For Unix dans l'Active Directory (schema avec uid,gid...)

- `yum install sssd sssd-client krb5-workstation samba openldap-clients policycoreutils-python`

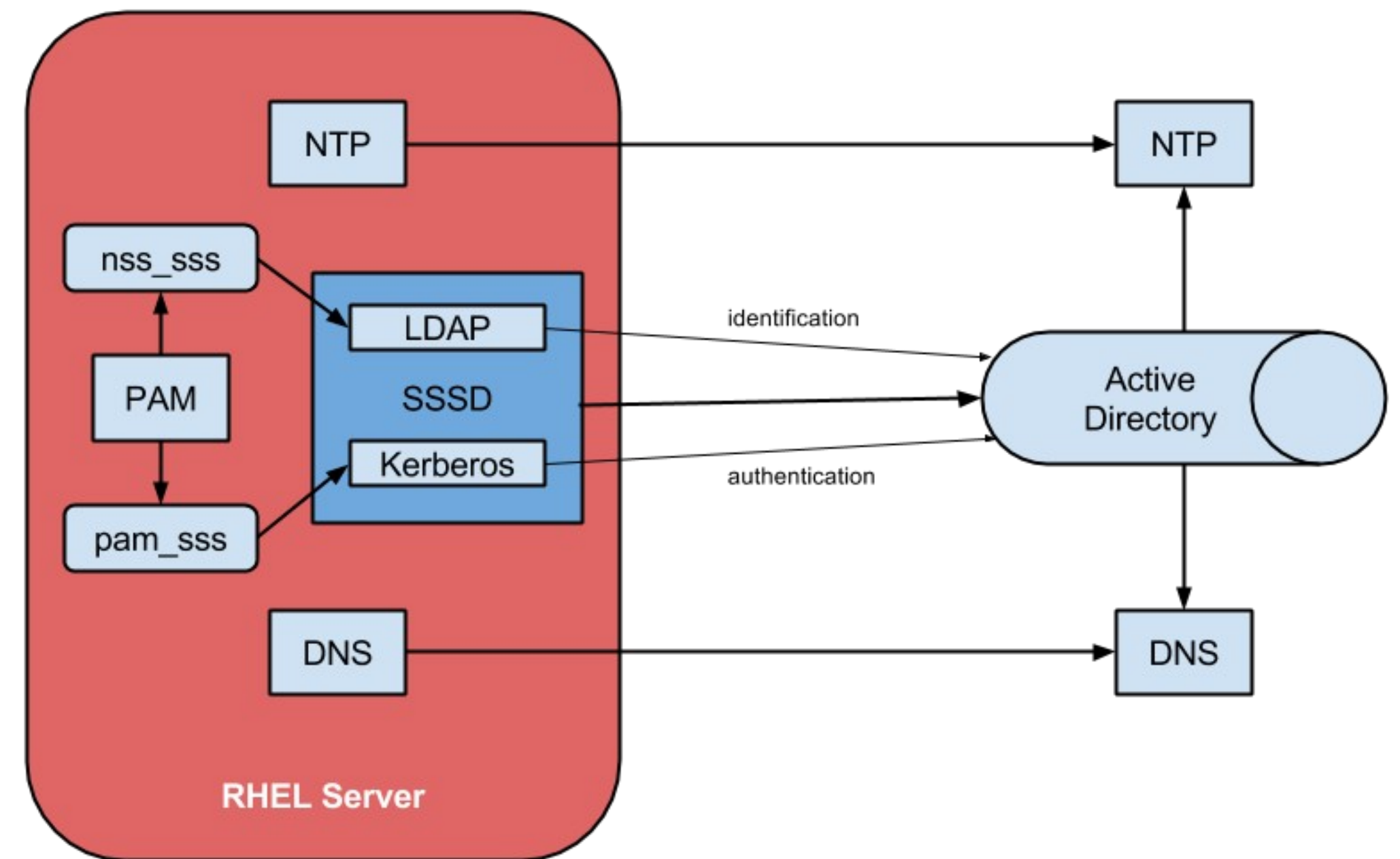
`kinit Administrator@AD.EXAMPLE.COM`

`net ads join createupn=host/client.ad.example.com@AD.EXAMPLE.COM -k`

`net ads keytab create`

`net ads keytab add host/client.ad.example.com@AD.EXAMPLE.COM`

- Configure sssd



- Cf <http://www.chriscowley.me.uk/blog/2013/12/16/integrating-rhel-with-active-directory/>

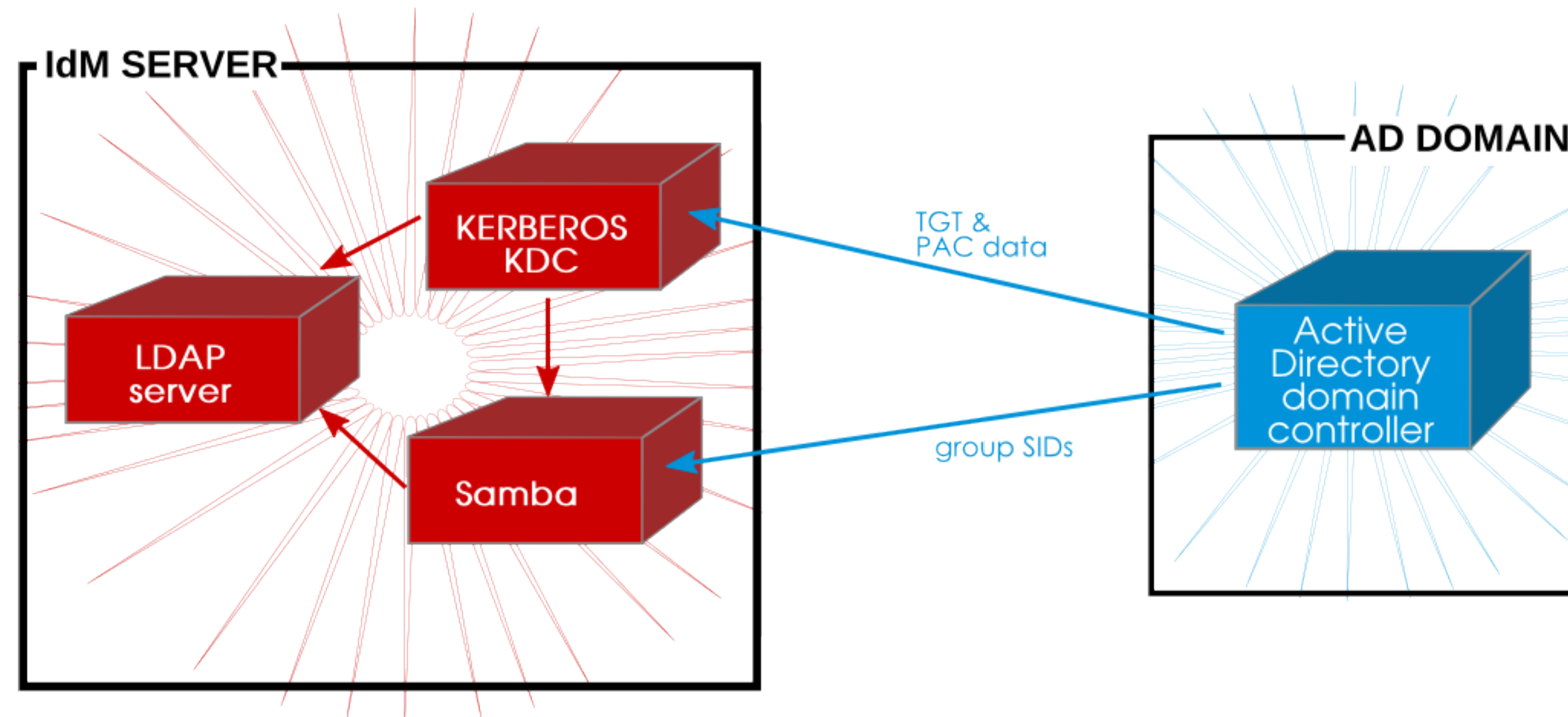
Connection via IDM

Pré-requis

- Windows 2008 ou 2012
- Redhat 7.1+ sur les serveurs
- Sssd ≥ 1.9 : Redhat 6.4+ pour avoir toutes les fonctionnalités
- Sssd < 1.9 : Redhat 5.8+, Redhat 6 à 6.3 : avec des fonctionnalités réduites (hbac, support par couche de compatibilité sur le serveur IDM)

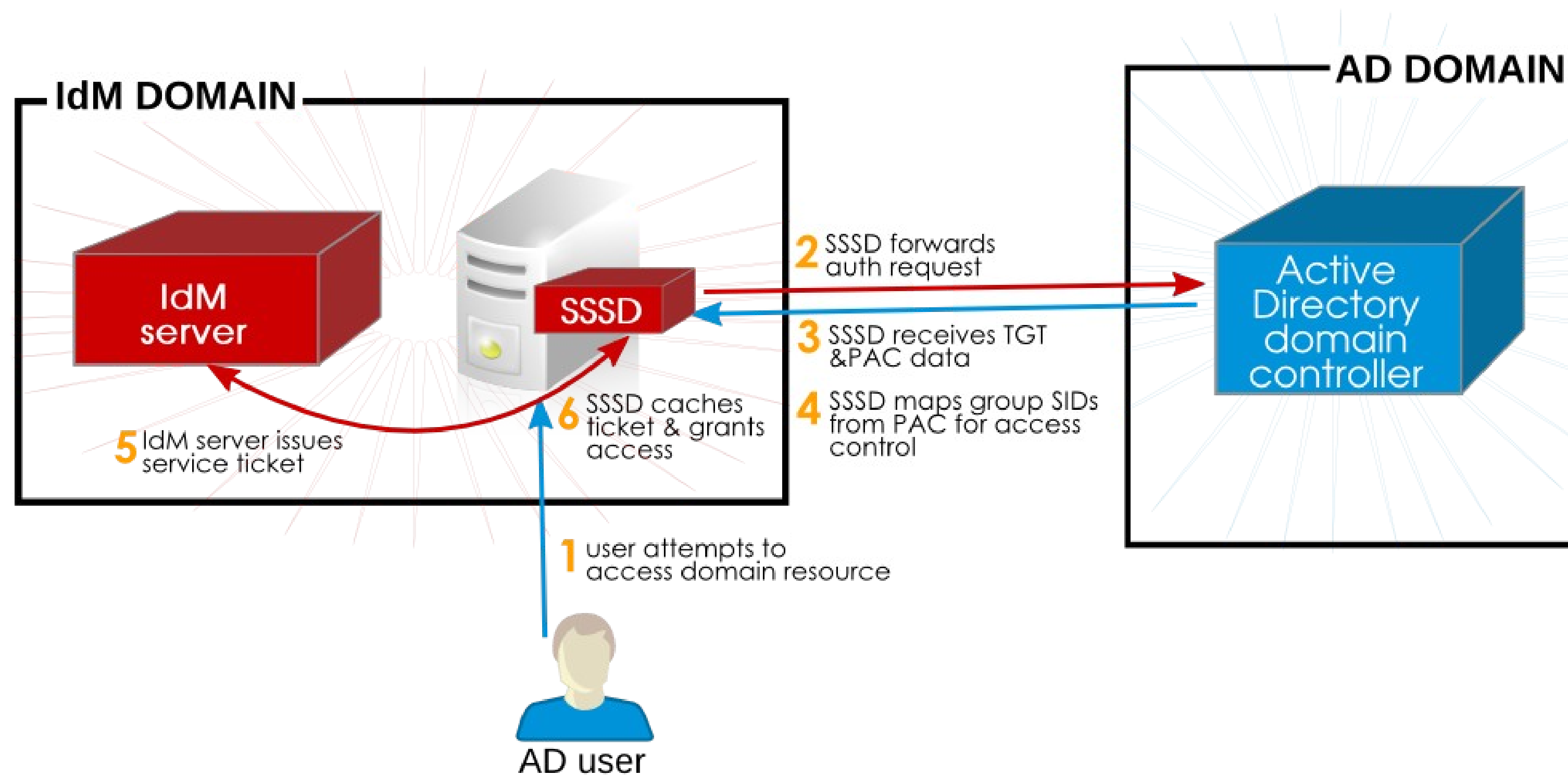
Redhat IDM - AD

- - installation des Service For Unix dans l'Active Directory optionnel
- `ipa-adtrust-install --enable-compat --netbios-name=LINUX`
- `ipa trust-add --type=ad ipawindows.mtl.sfl --admin Administrator --password`



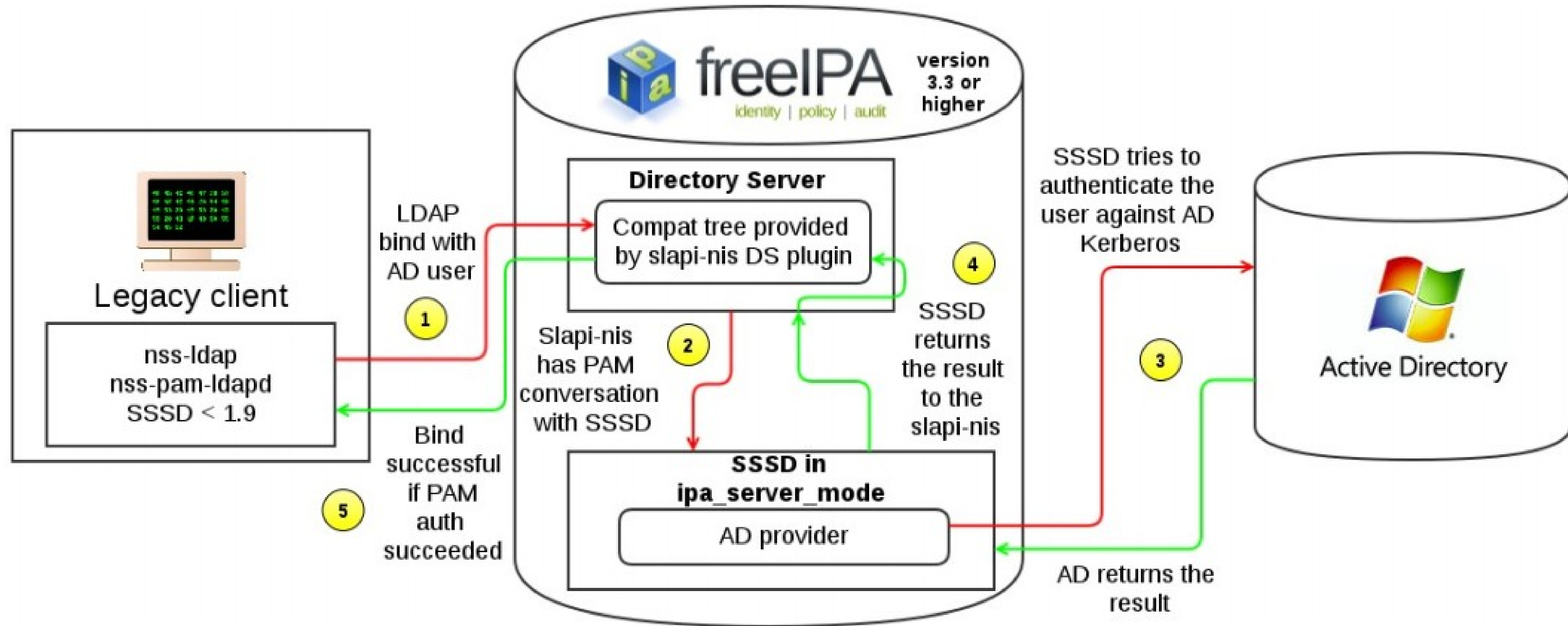
Linux server – Redhat IDM

- yum install ipa-client -y
- Ipa-client-install



Sssd < 1.9

- Redhat5 x et < RHEI 6 4



Démonstration

Configuration

- Réseau 10.0.10x
- Domaine Windows : rhugw.local
- Domaine Linux : rhug.local