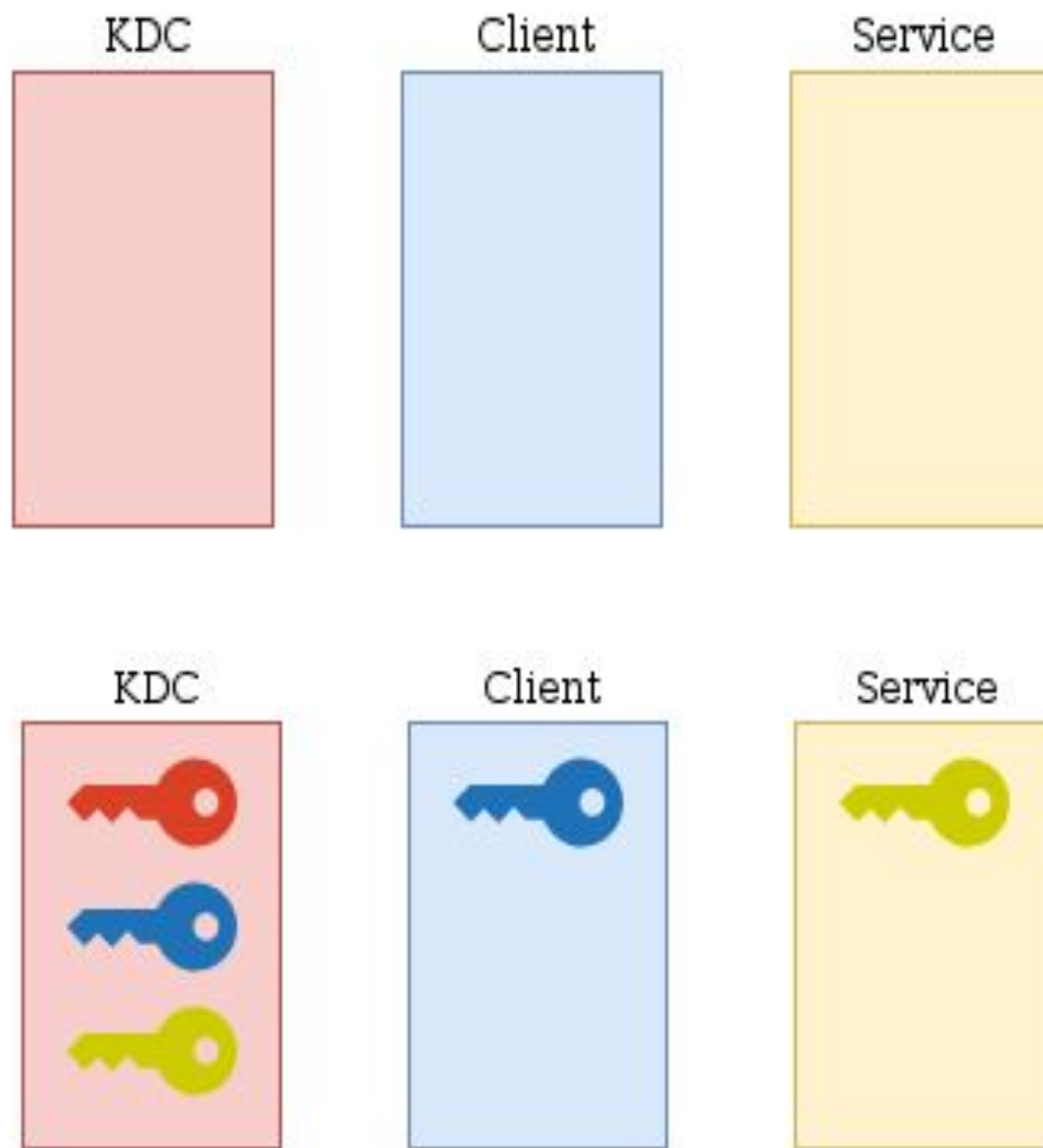




Movimientos Laterales Kerberos

Windows: Kerberos

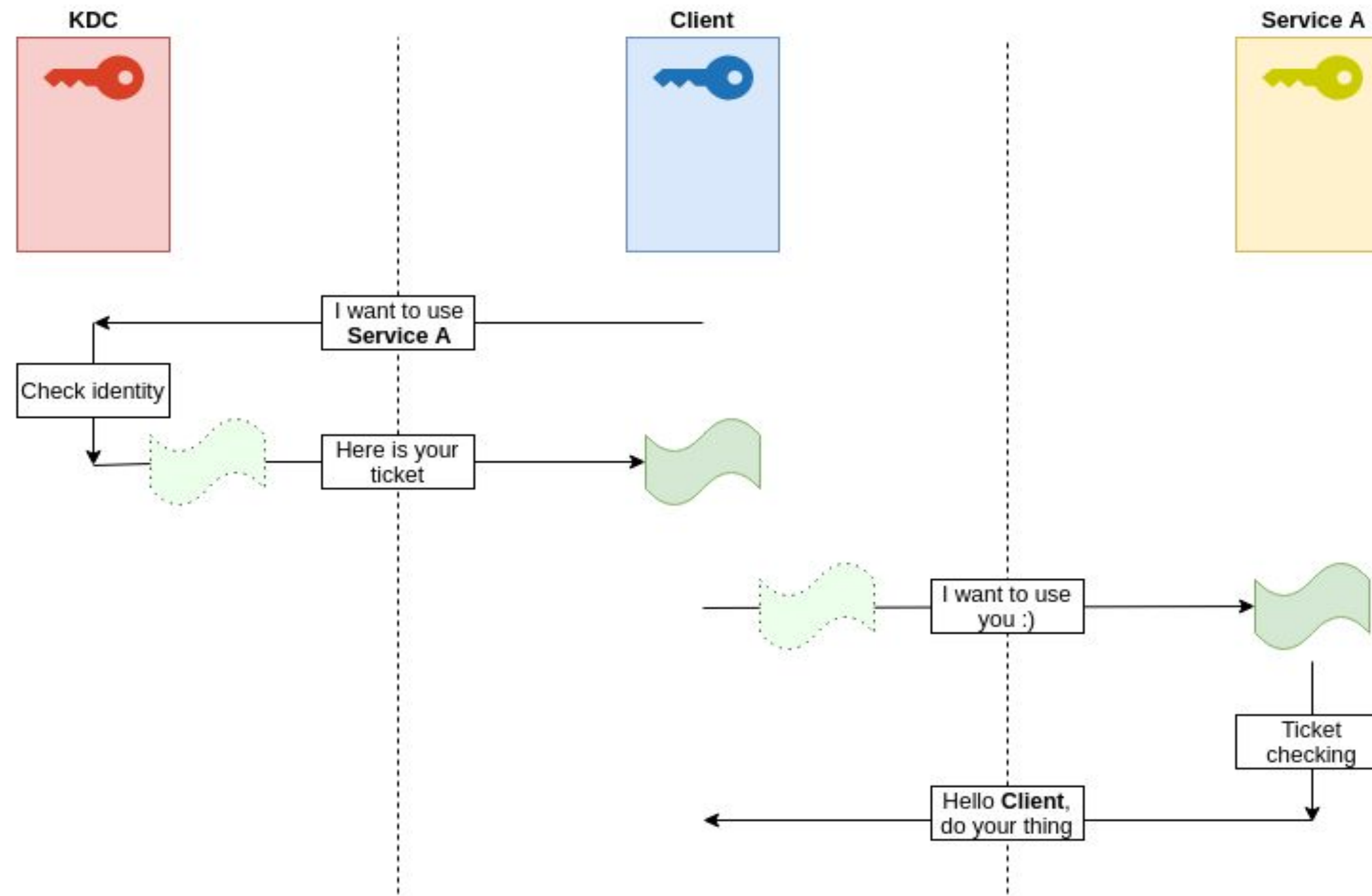


Se necesitan 3 entidades para llevar a cabo la autenticación:

- Un cliente
- Un servicio
- Un KDC (Key Distribution Center) -> El DC en dominio

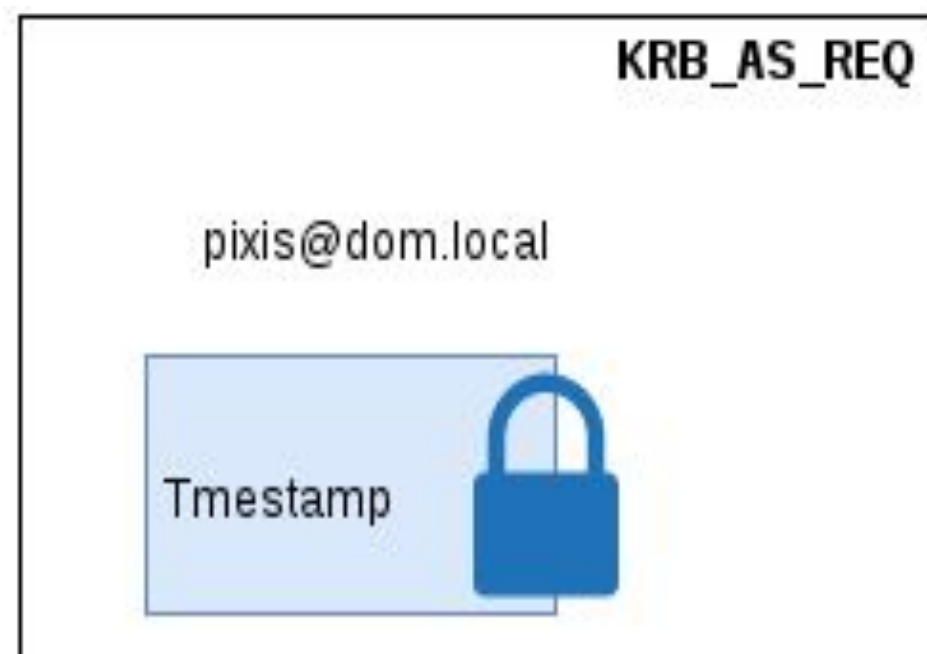
<https://en.hackndo.com/kerberos/>

Windows: Kerberos



<https://en.hackndo.com/kerberos/>

Windows: Kerberos KRB_AS_REQ (User)



Found

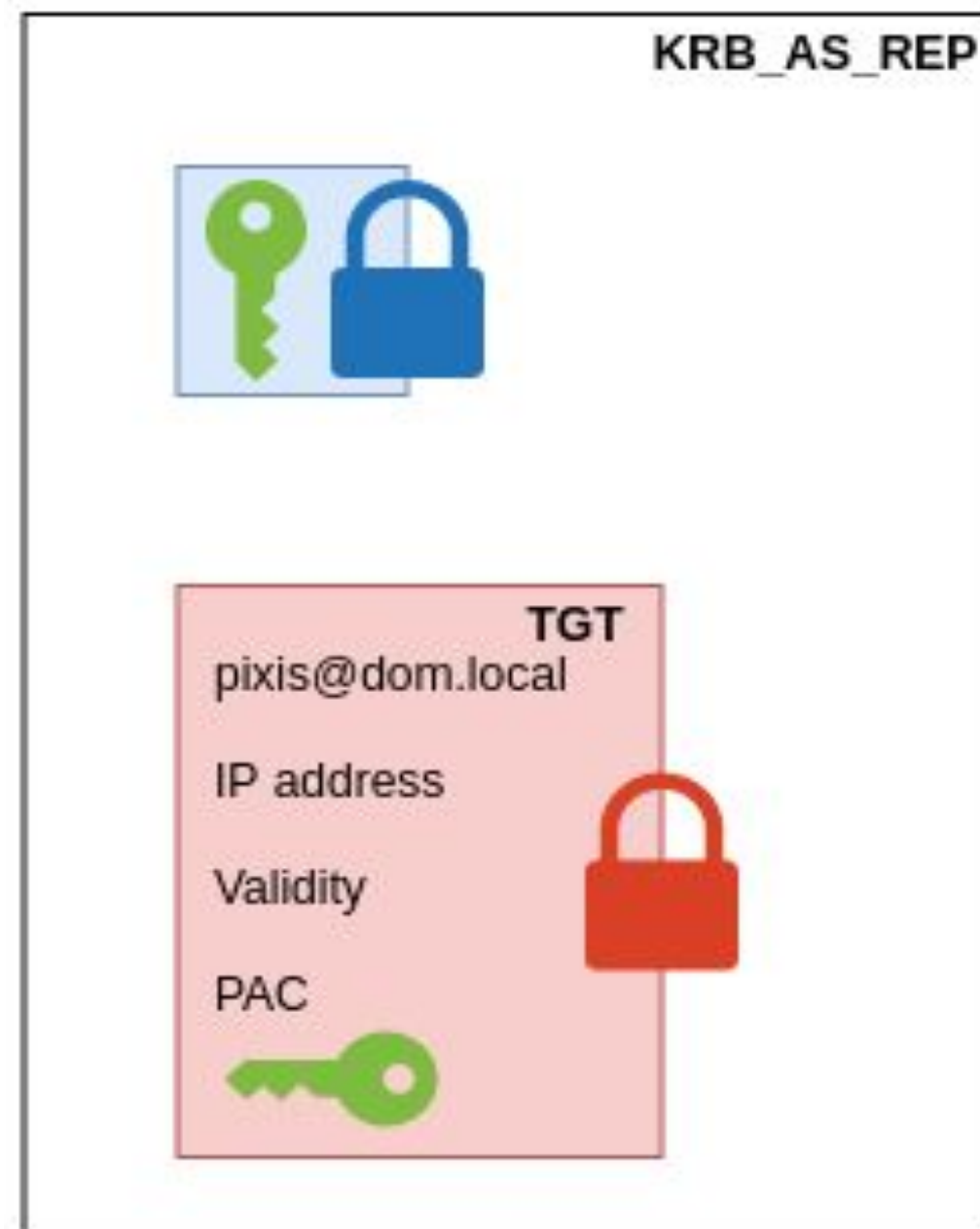


alice	<alice's hash>
bob	<bob's hash>
...	...
pixis	<pixis' hash>
...	...

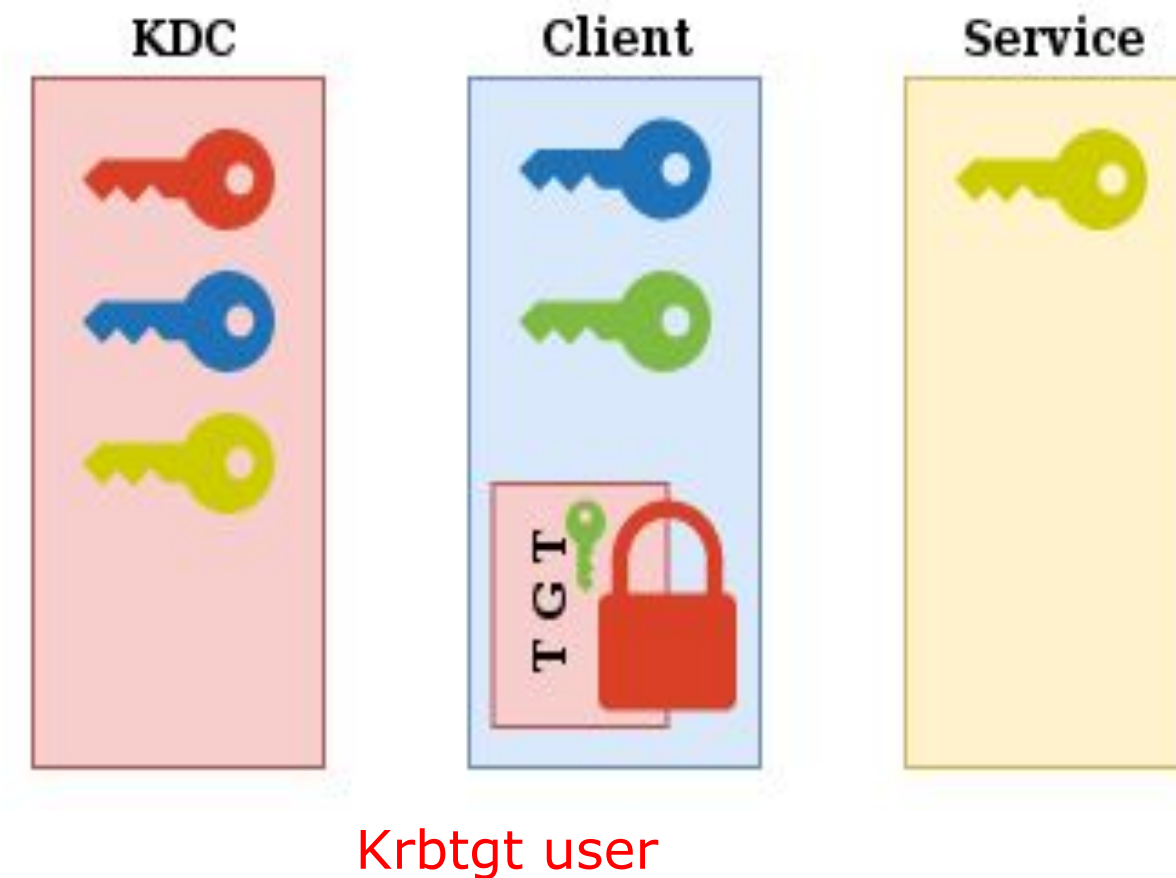


Session Key

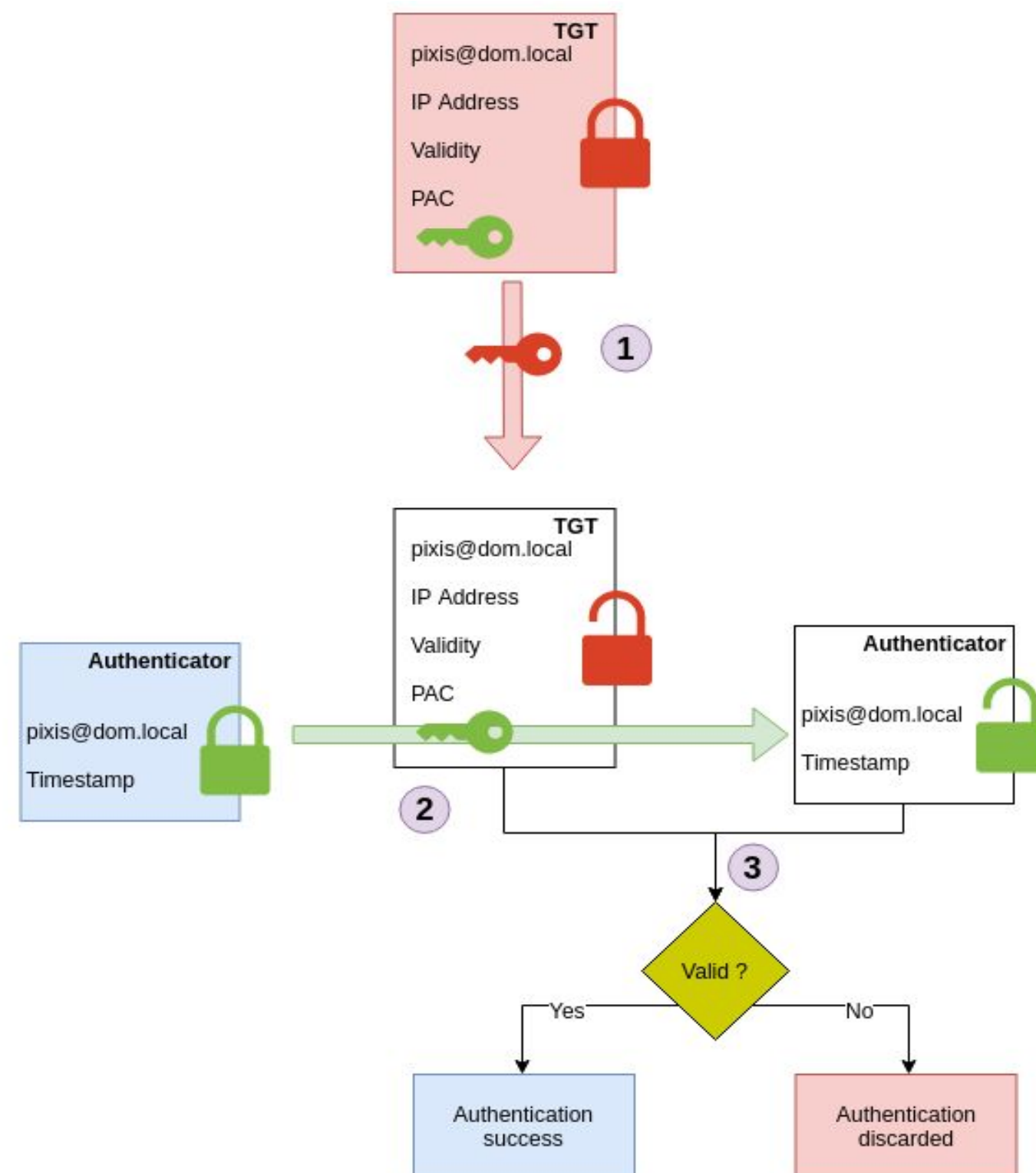
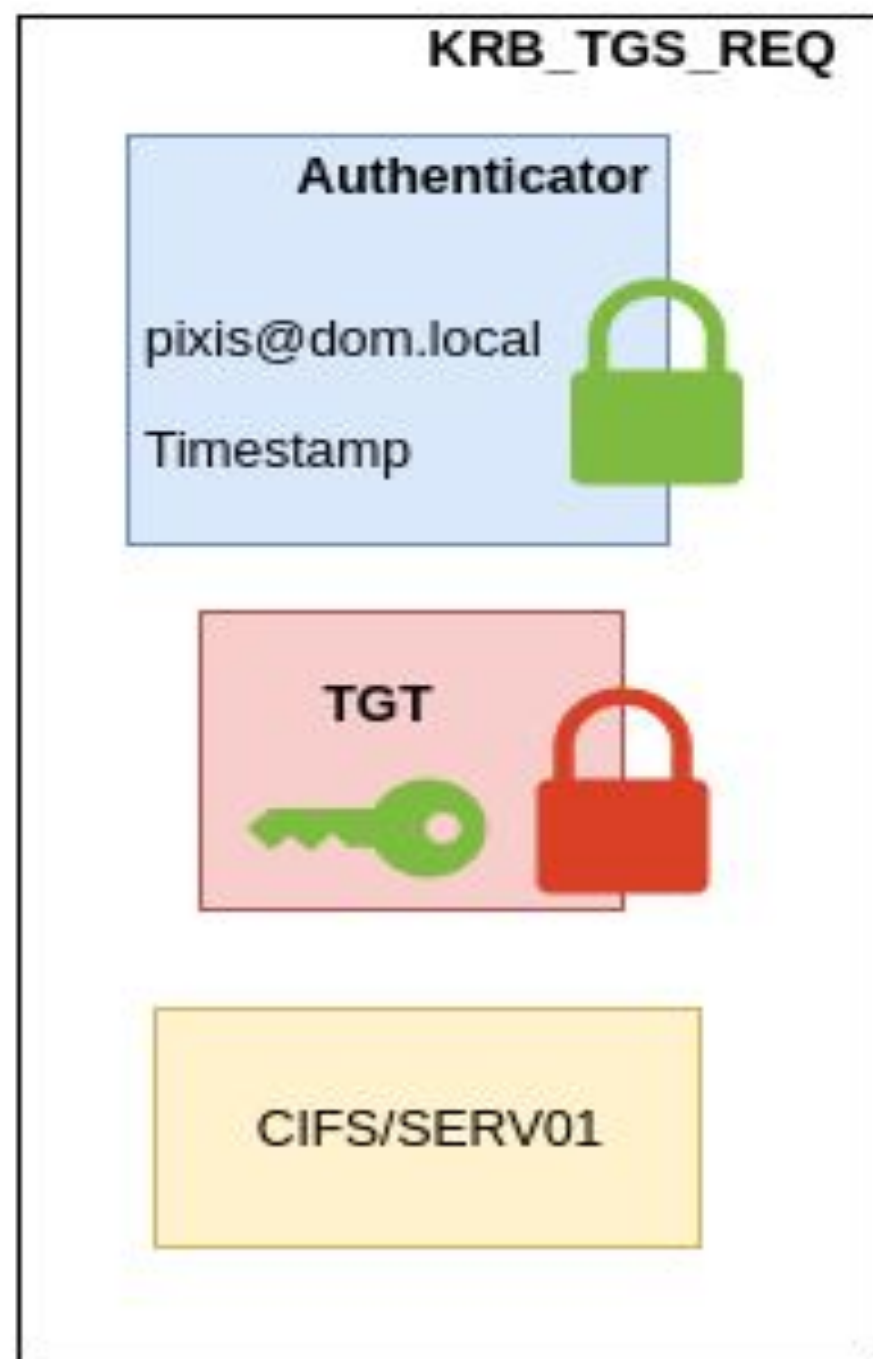
Windows: Kerberos KRB_AS_REP (Server)



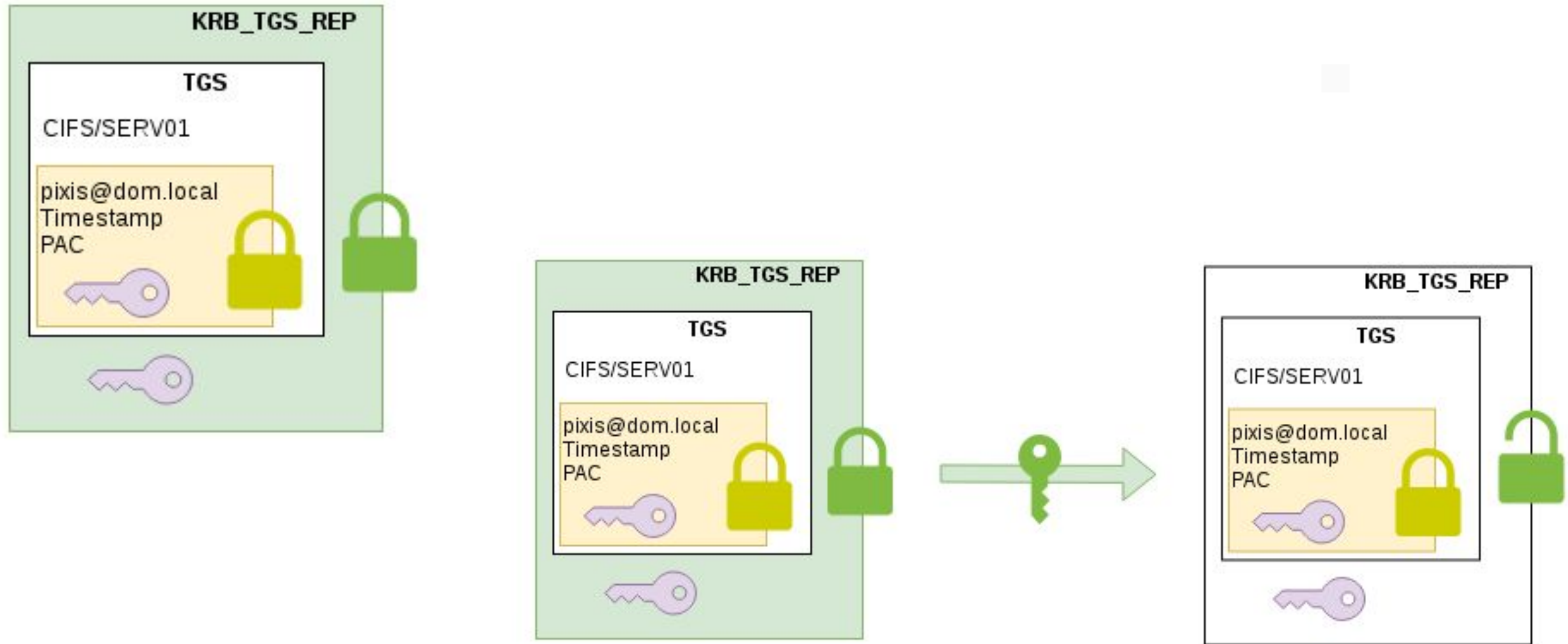
PAC (Privilege Attribute Certificate):
Información específica del usuario SID y grupos a los que pertenece.



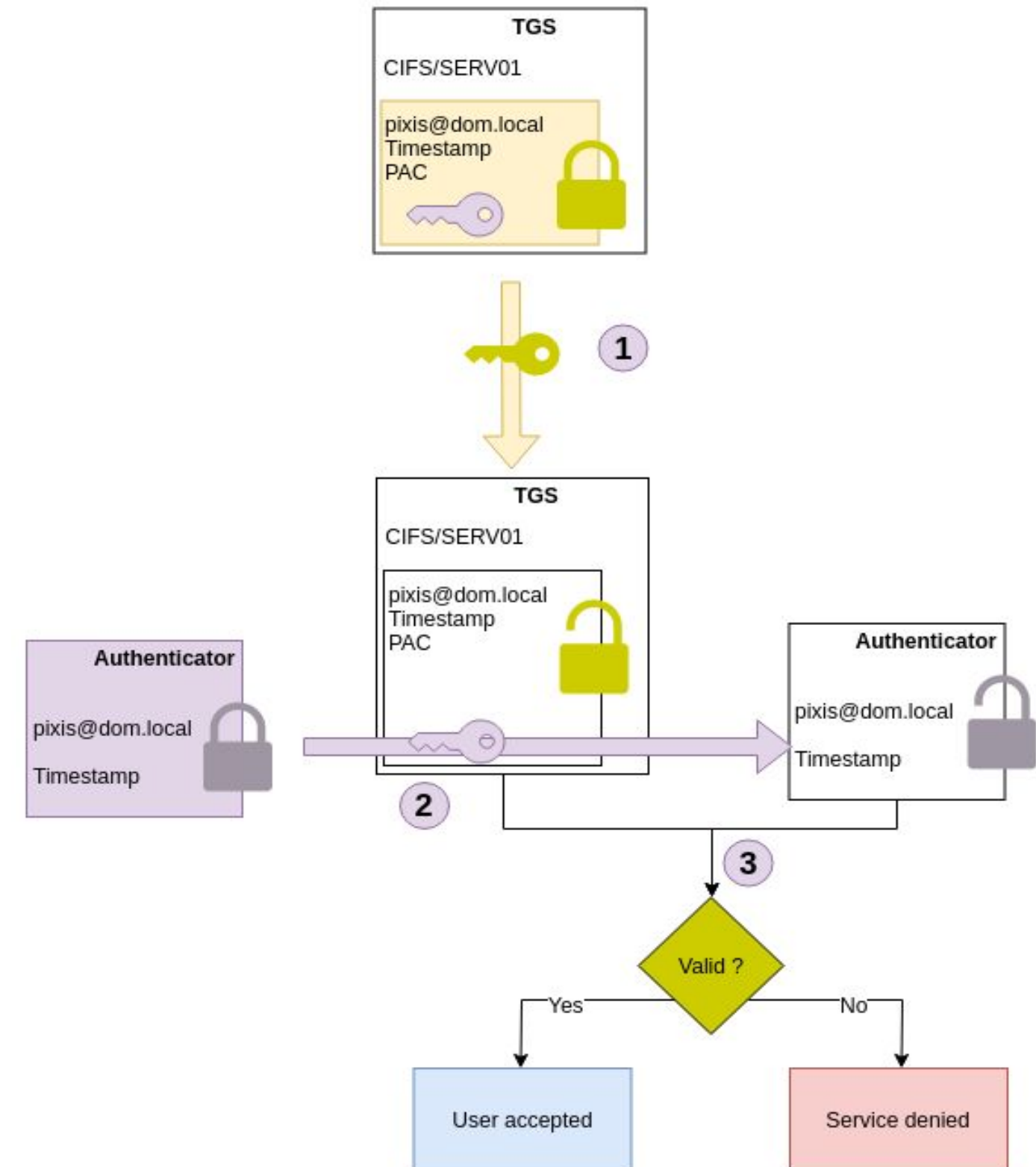
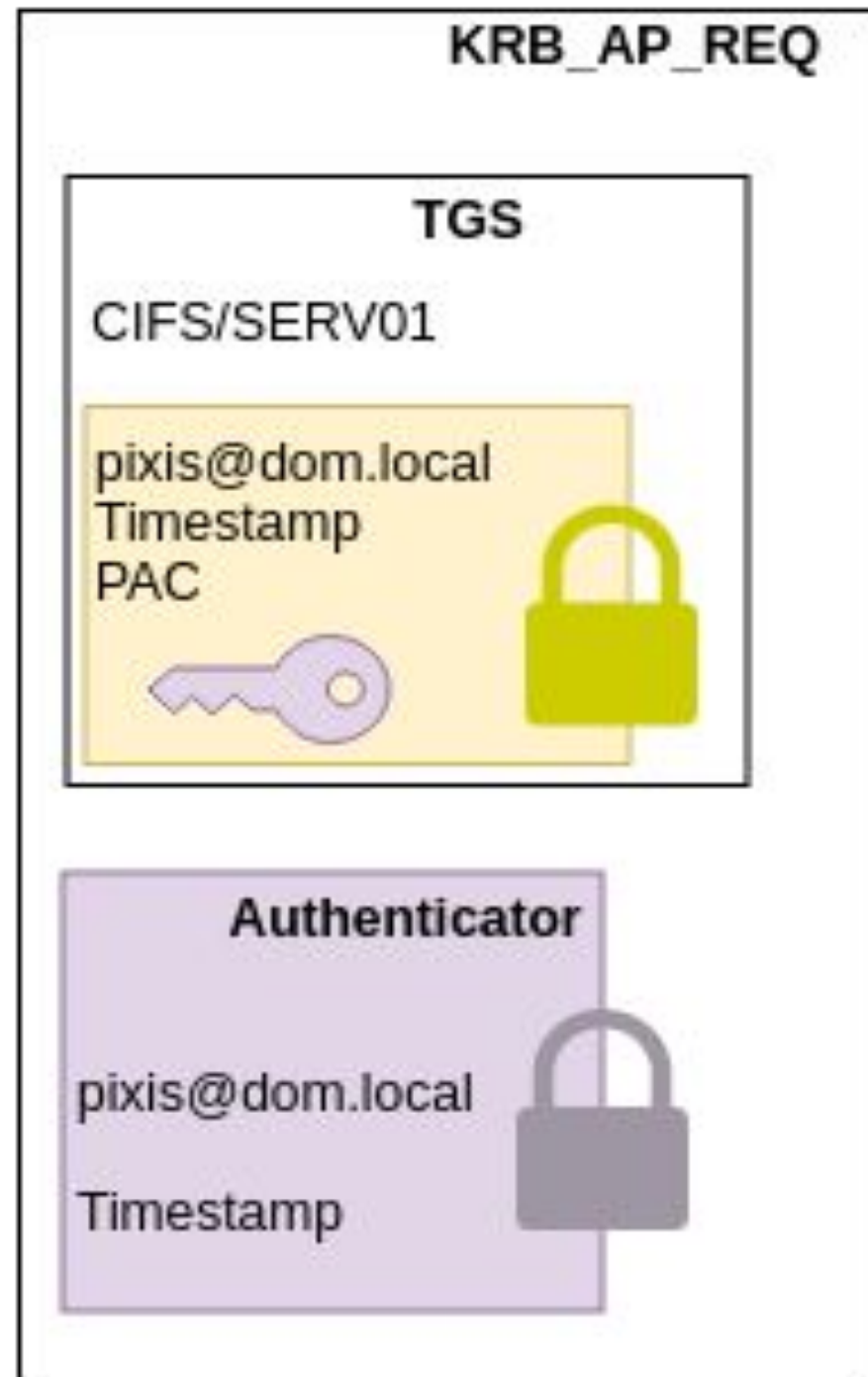
Windows: Kerberos KRB_TGS_REQ(Server)

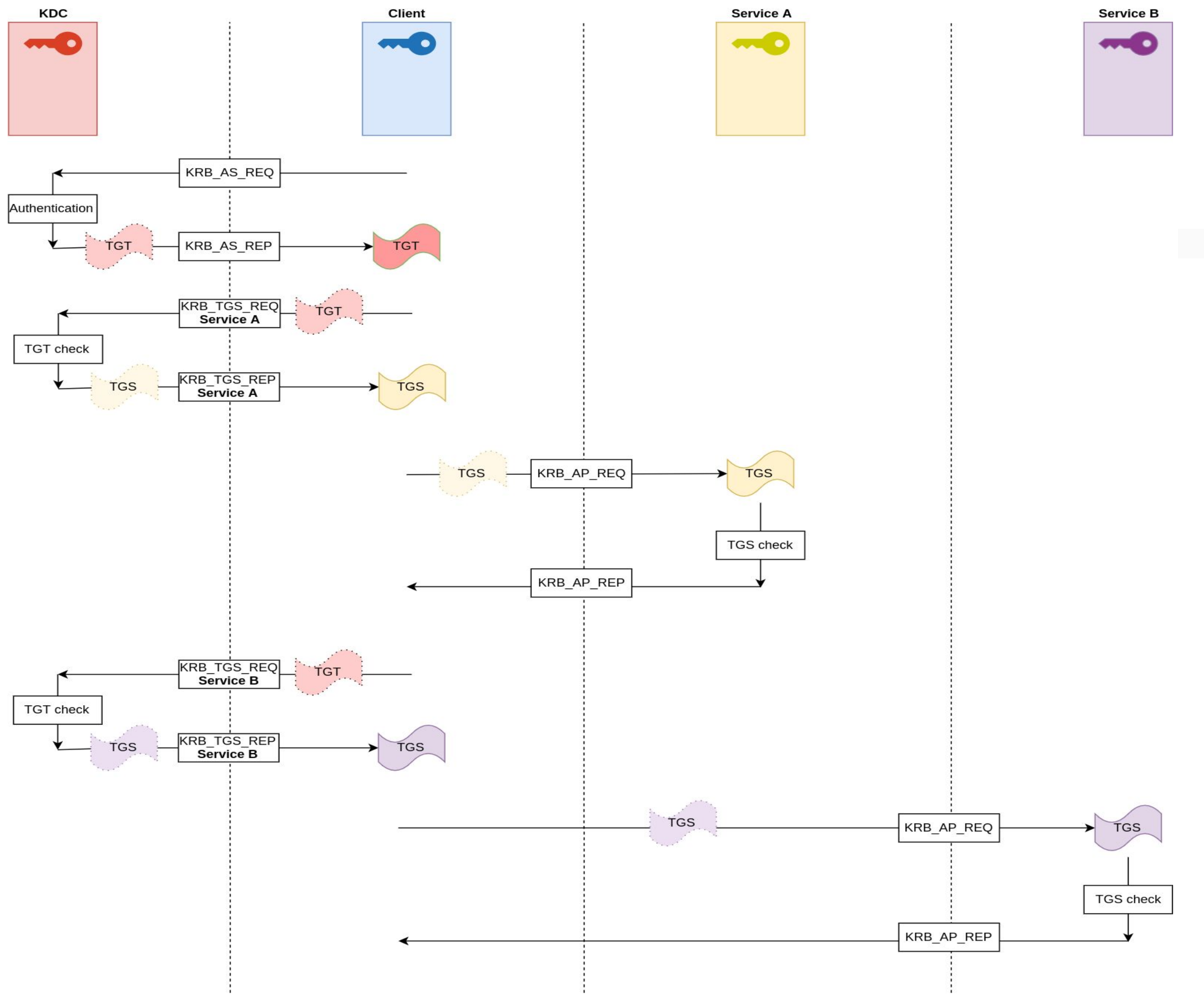


Windows: Kerberos KRB_TGS_REP(Server)

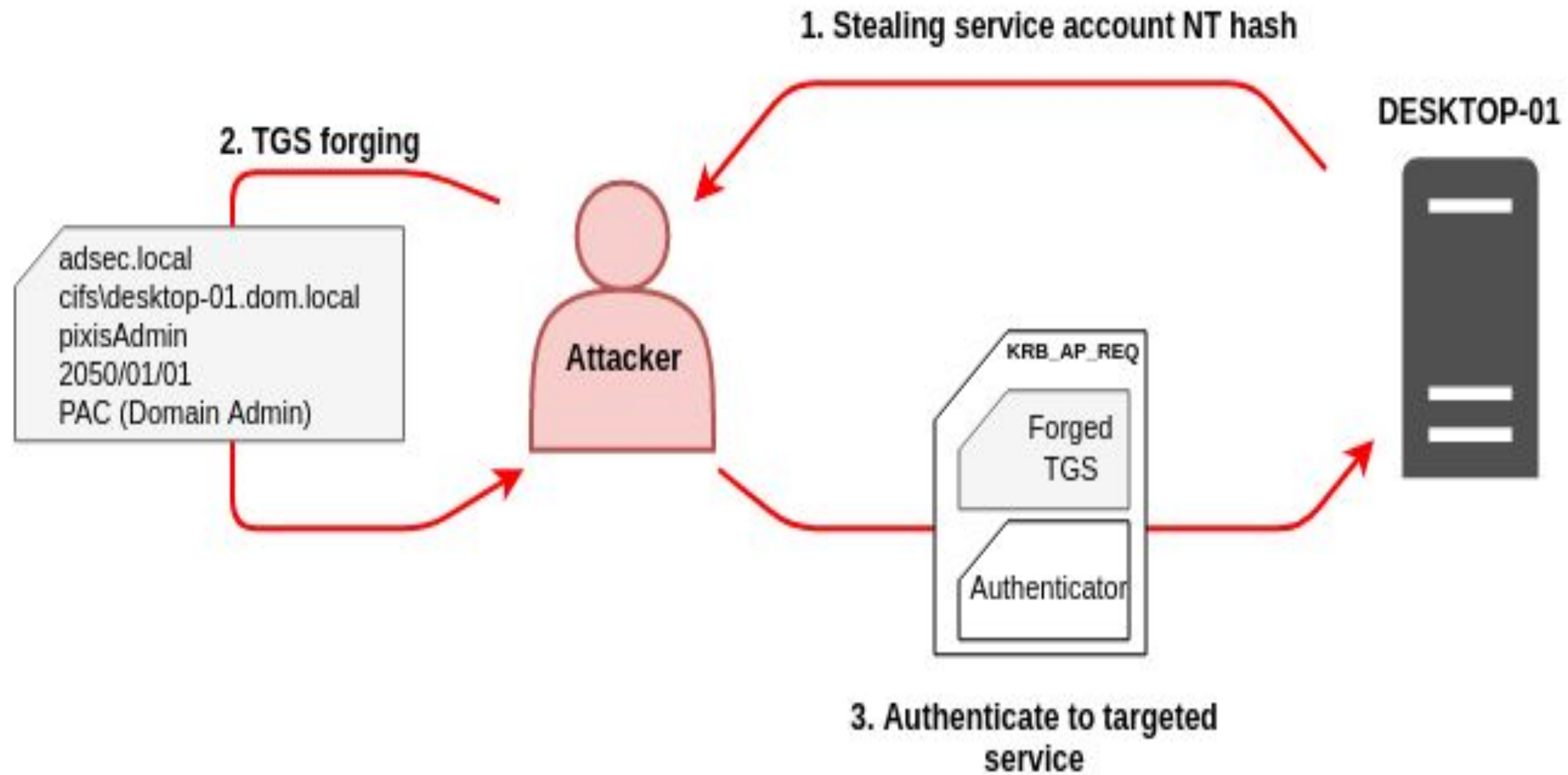


Windows: Kerberos KRB_TGS_REP(Server)

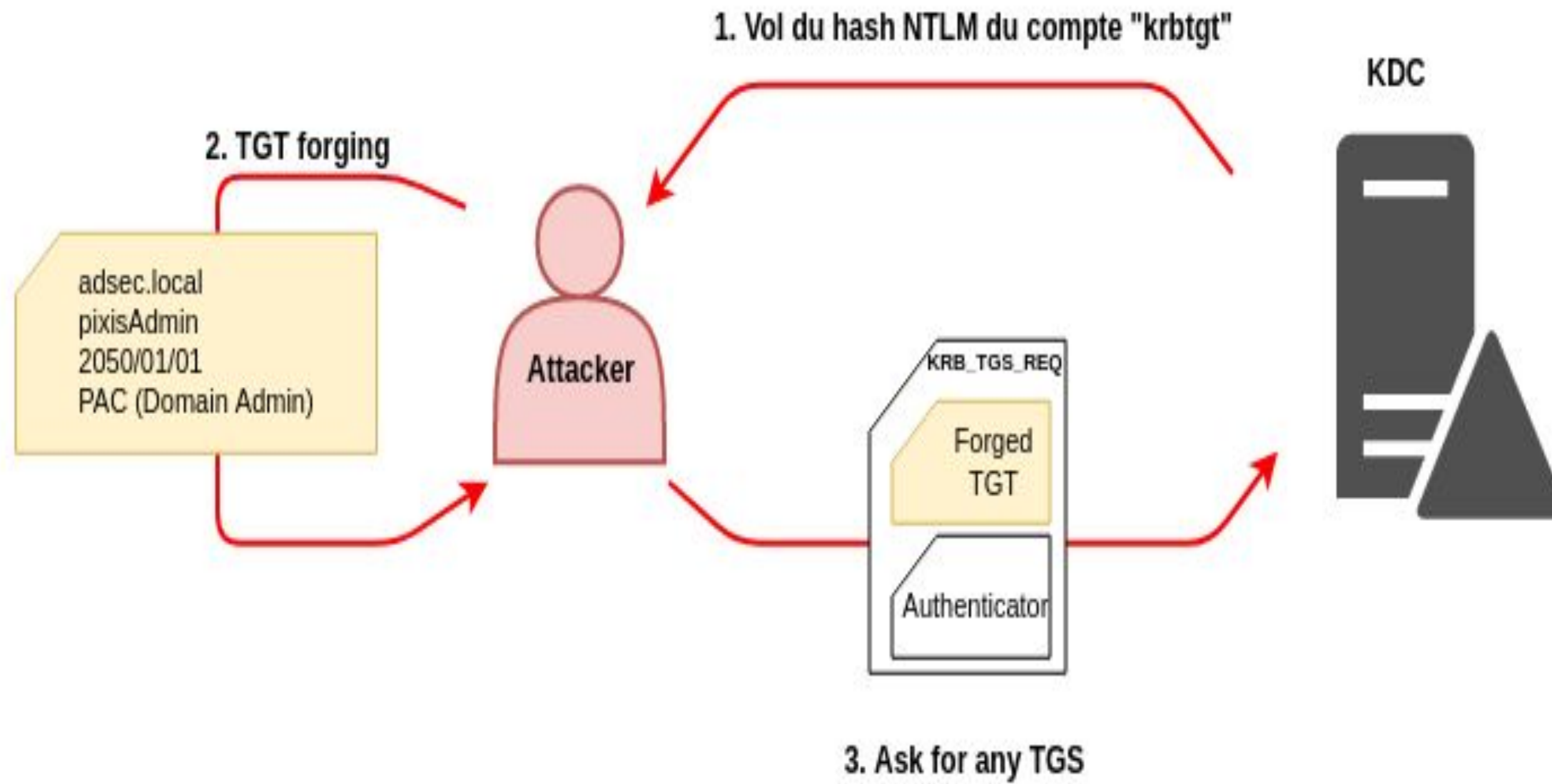




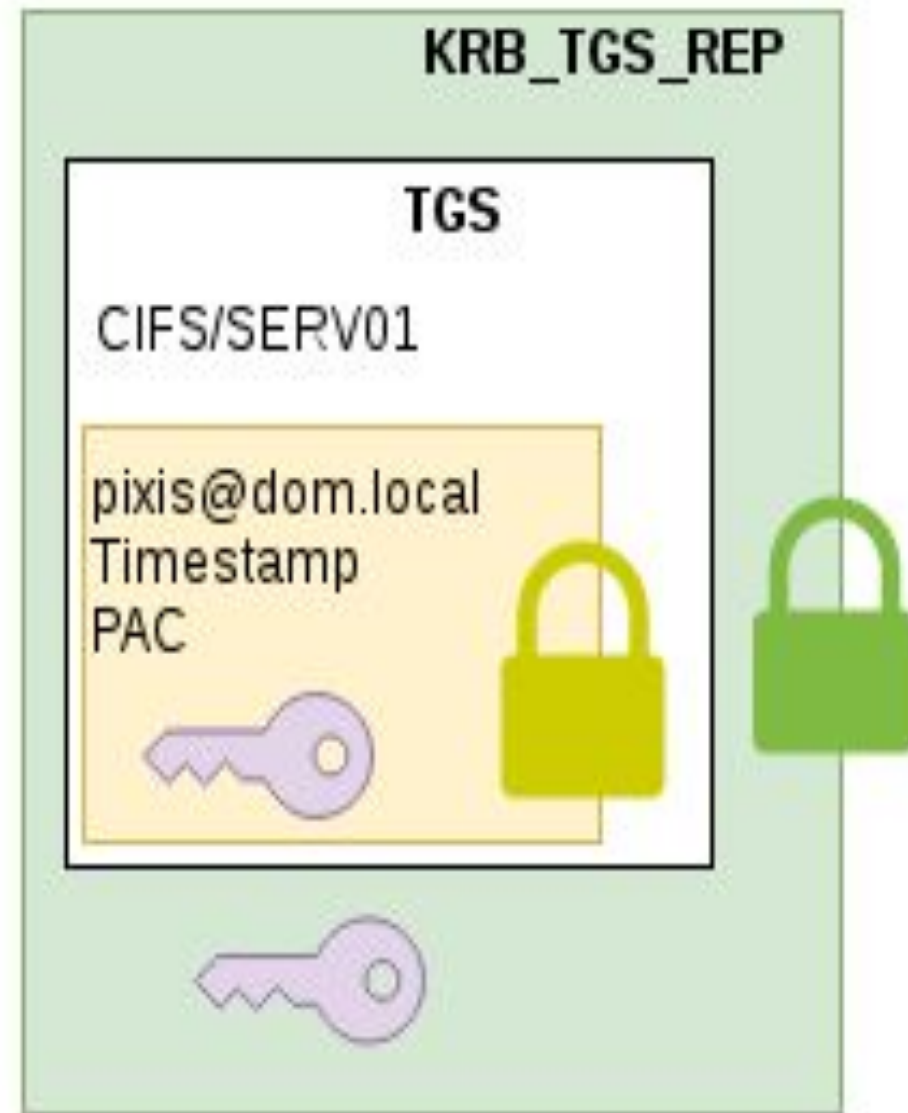
Windows: Silver Ticket



Windows: Golden Ticket



Windows: Kerberoasting



- Podemos solicitar TGS's para autenticarnos en los servicios.
- El TGS está cifrado con el secreto (hash) del servicio.
- Posibles ataques de fuerza bruta (diccionario).

