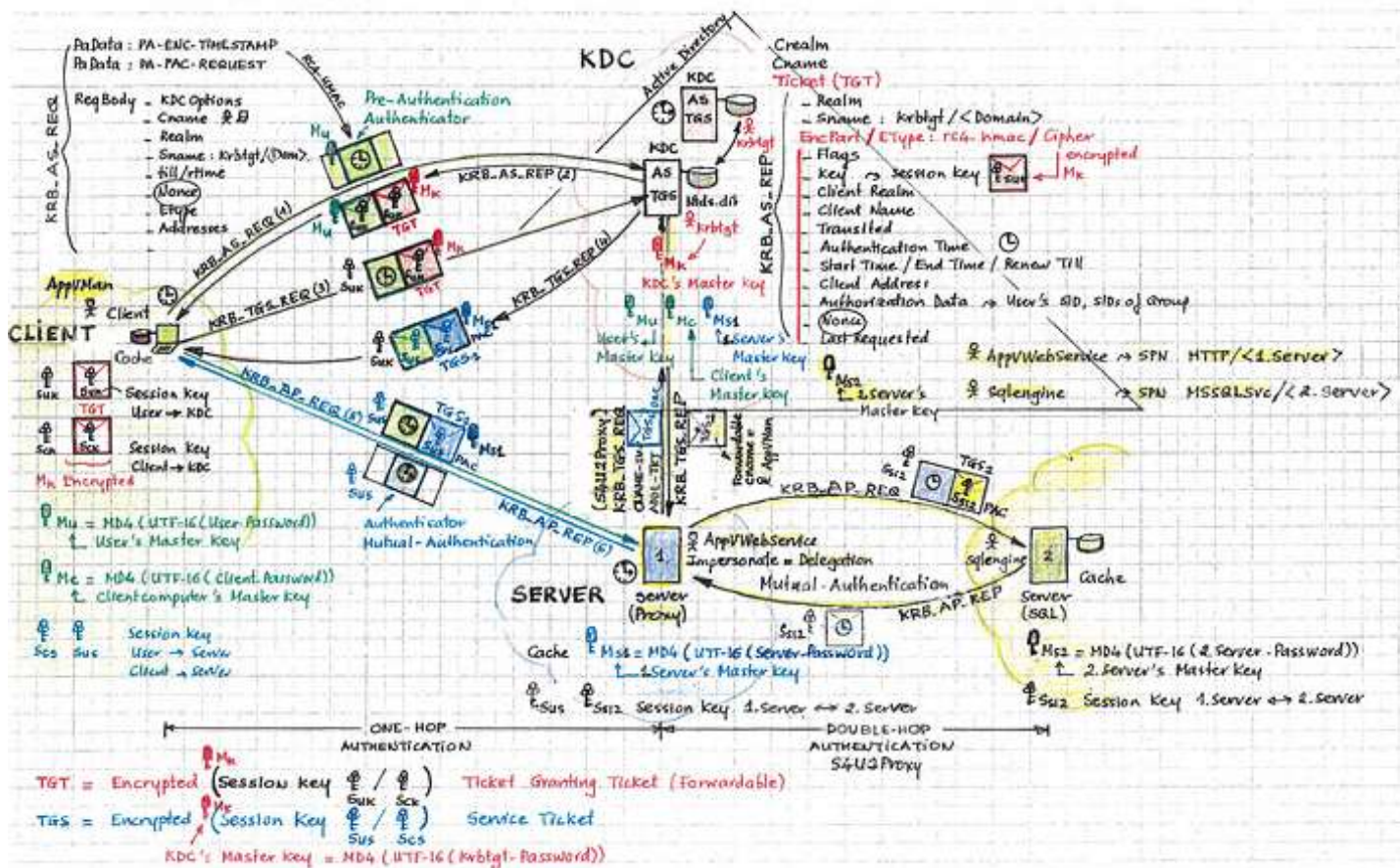
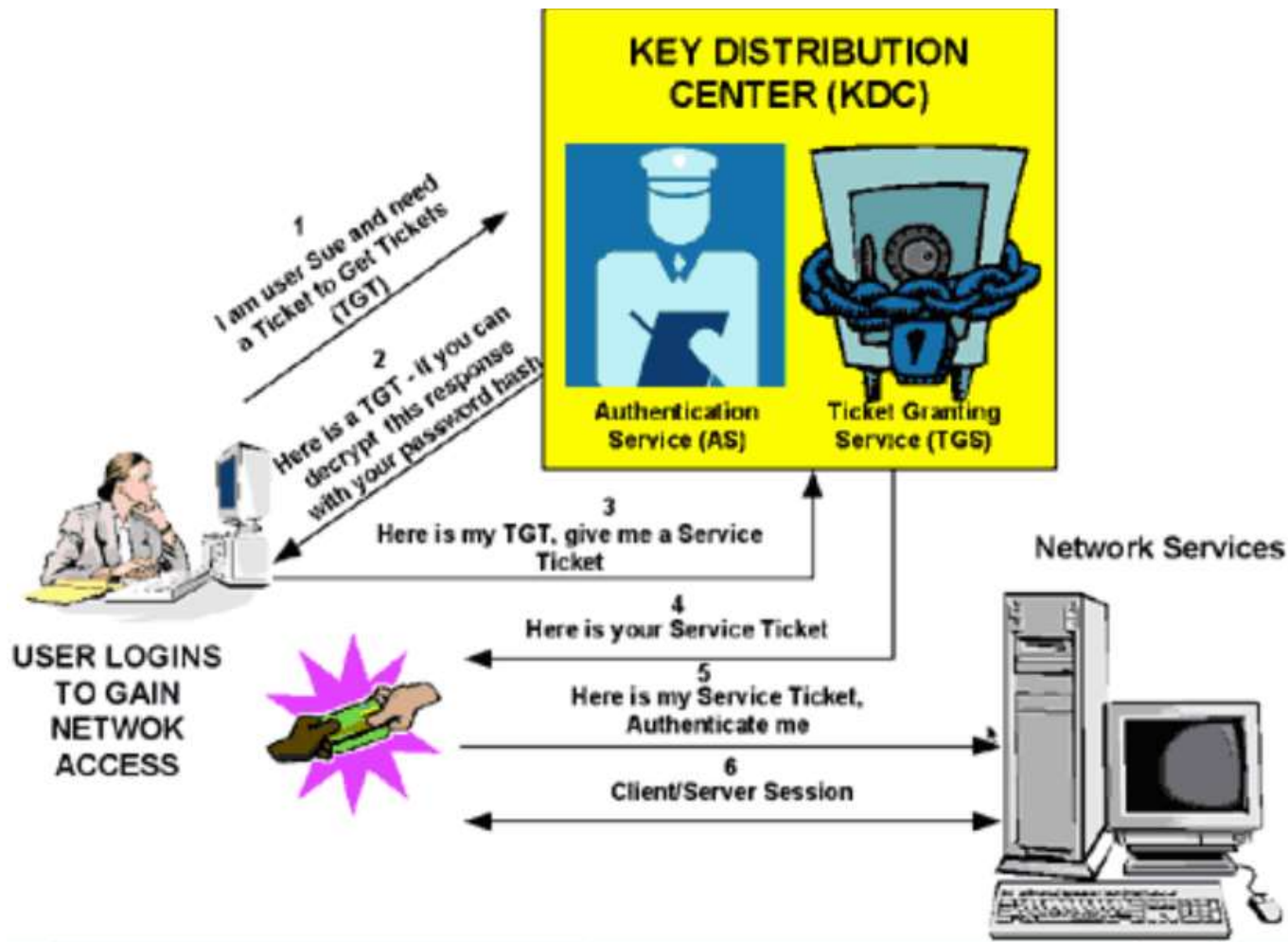
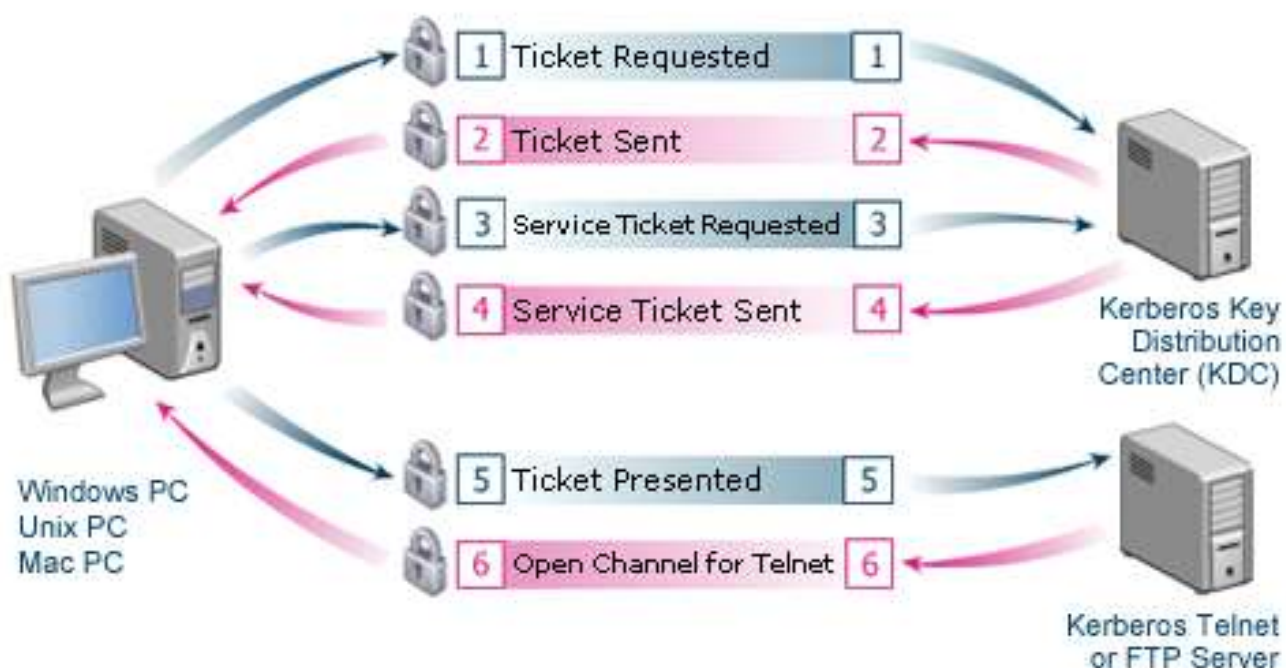


# Kerberos

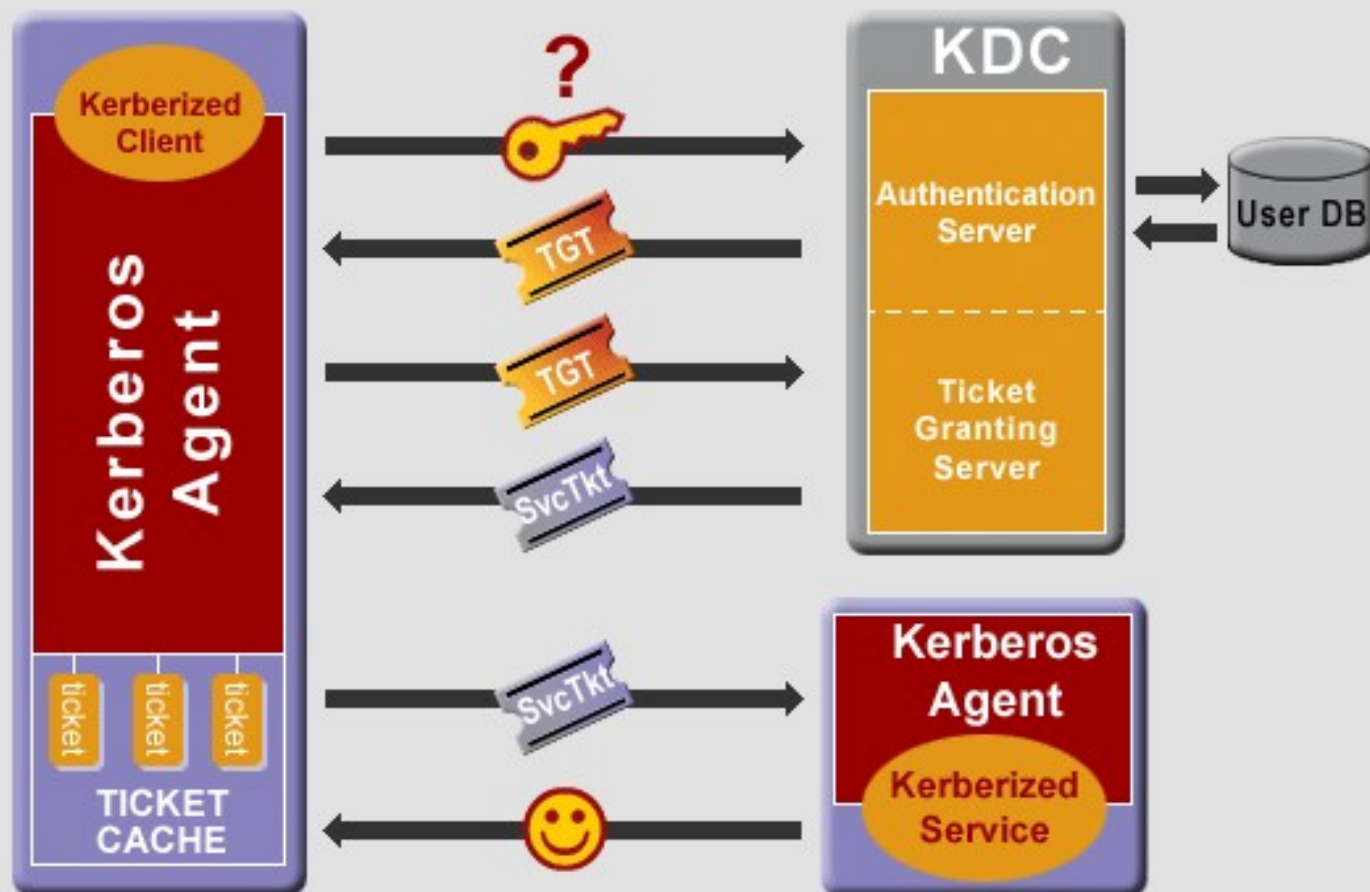
## KERBEROS AUTHENTICATION (DOUBLE-HOP → S4U & PROXY MUTUAL)



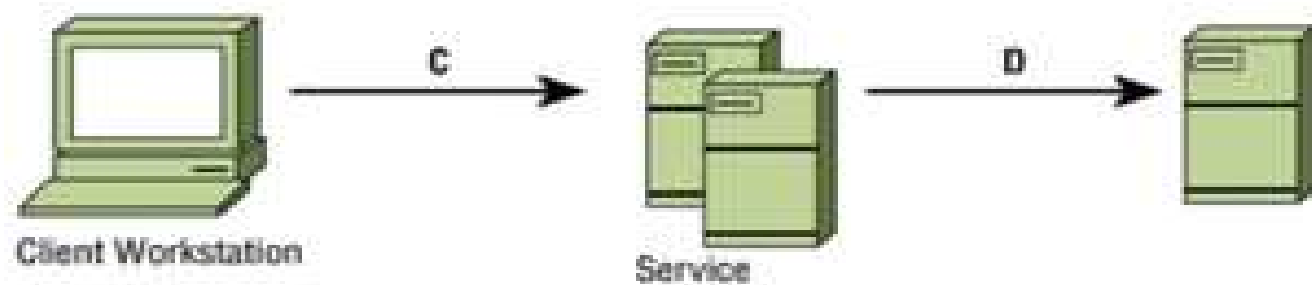
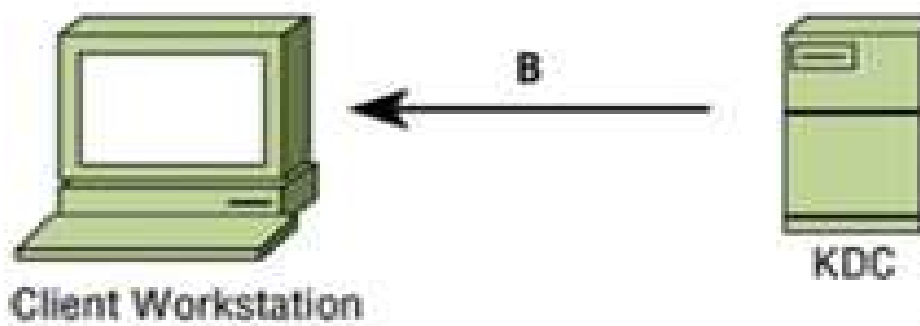
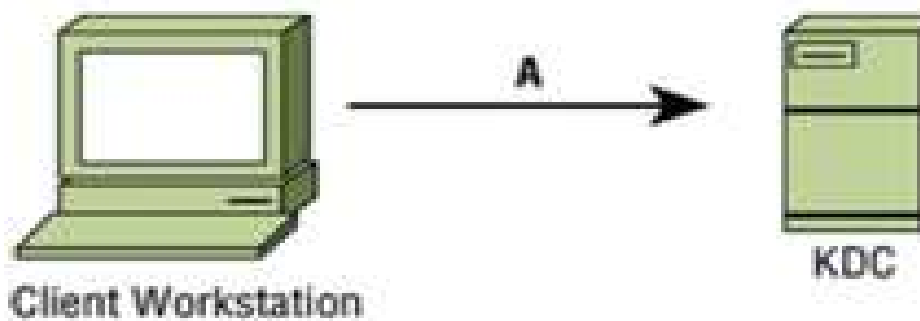




## AuthAgent Kerberos Operation



- 1. Client encrypts user name and other data and sends it to KDC (authentication server) (Hashed secret key)**
- 2. KDC ( authentication server) authenticates client**
- 3. Client requests from the KDC A a Ticket Granting Ticket (TGT) to use a resource**
- 4. KDC checks and make sure client is allowed to used the resource and provide the TGT**
- 5. Client provide the TGT to the Ticket Granting Server(TGS) to request a Service Ticket**
- 6. TGS checks the TGT to make sure it is valid and provide a Service Ticket to Client**
- 7. Client uses the Service Ticket to access the resource.**





208. If the client has already authenticated to the KDC, what does the client workstation send to the KDC at point A when it wants to access a resource?
- A. It re-sends the password.
  - B. A TGR
  - C. Its TGT
  - D. A service ticket
209. What occurs between steps A and B?
- A. The KDC verifies the validity of the TGT and whether the user has the right privileges for the requested resource.
  - B. The KDC updates its access control list based on the data in the TGT.
  - C. The KDC checks its service listing and prepares an updated TGT based on the service request.
  - D. The KDC generates a service ticket to issue to the client.
210. What system or systems does the service that is being accessed use to validate the ticket?
- A. The KDC
  - B. The client workstation and the KDC
  - C. The client workstation supplies it in the form of a client-to-server ticket and an authenticator.
  - D. The KVS
211. What does a service ticket (ST) provide in Kerberos authentication?
- A. It serves as the authentication host.
  - B. It provides proof that the subject is authorized to access an object.
  - C. It provides proof that a subject has authenticated through a KDC and can request tickets to access other objects.
  - D. It provides ticket granting services.