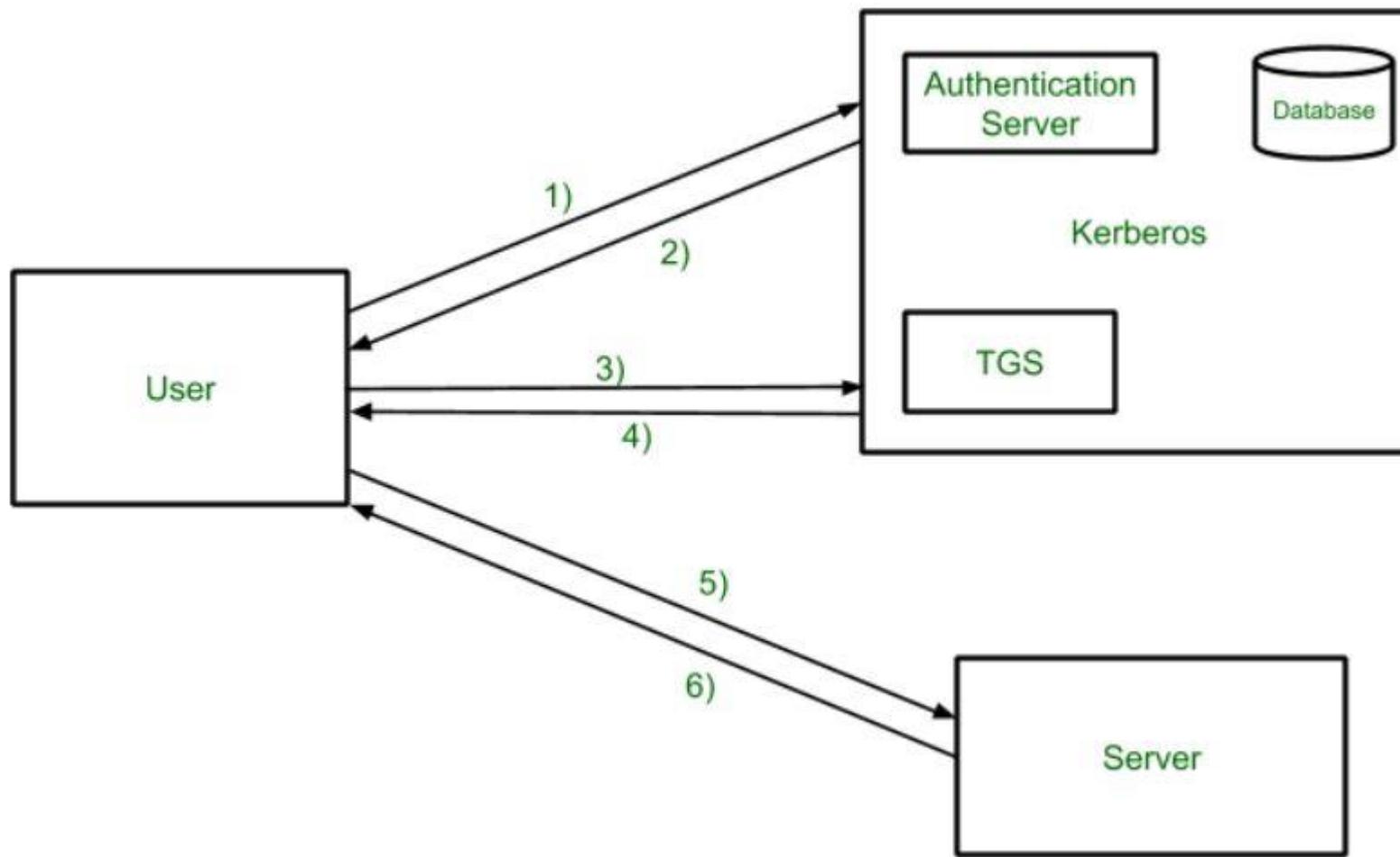


KERBEROS AUTHENTICATION PROTOCOL

- ▶ Kerberos provides a centralized authentication server whose function is to authenticate users to servers and servers to users. In Kerberos Authentication server and database is used for client authentication.
- ▶ The main components of Kerberos are:
- ▶ **Authentication Server (AS):** The Authentication Server performs the initial authentication and ticket for Ticket Granting Service.
- ▶ **Database:** The Authentication Server verifies the access rights of users in the database.
- ▶ **Ticket Granting Server (TGS):** The Ticket Granting Server issues the ticket for the Server



Limitations

- ▶ Requires an always-on Kerberos server
- ▶ Stores all passwords are encrypted with a single key
- ▶ Assumes workstations are secure
- ▶ Each network service must be modified individually for use with Kerberos