

Authentication using Kerberos

1. User **Alice** logs on to Authentication Server (AS) and requests service.
2. AS verifies user's access right in database, creates ticket-granting ticket and session key. Results are encrypted using key derived from user's password.
3. User Alice uses password to decrypt incoming message, then sends ticket and authenticator that contains user's name, network address, and time to Ticket Granting Server (TGS).
4. TGS decrypts ticket and authenticator, verifies request, then creates ticket for requested server (Bob).
5. User Alice sends ticket and authenticator to server.
6. Server verifies that ticket and authenticator match, then grants access to service.

