

Author server send 2 mags lifetime of ToT encrypted by client secret Rey 11) Attross Userid TGSid timestamp, userip

lifetime, TGS session key

encrypted by TGS session key

secret ii) is TGT (wer can't decrypt)
as it doesn't have, Tos societ) 3 User creates 2 msgs : 1) Attros: service id, Requested lifetime or) The user authentication encrypted with Tos session key (received in (2))) sends to TGS along with TGT received as (291)

A TGS Jirst sees the service id in (3:) and checks againts its table/ DB, grabs the sorvece secret. NOW TOS has TOS secret key

It decreypts TOT, grabs Tos session key uses Tos session key to decrypt user authentication Now, TOS will validate data makes sure i) wer id same in ToT and user authentication in) compares timestamps (about 2min window) received message from.

iv). Lifetime has not passed yet If were authenticator not in cache Tos will add it. provides replay protection

4 ron tol TGS creates 2 msgs 1) User Authenticator - 30 50 500 500 (cortaining altros service id, timestamp, lifetime > encupped with TBS session key 91) Some ticket # PHIDS & userid Social, timestamp, user-ip,
Lifetime of service ticket, service > encrypted by Scrille secret ky sent to user

Now, were has 2 msgs Now received TGS in (2) hence decrypts (AC), grabs service session key	
B) user cannot decrypt (4) 09) as it enought	
So it encoupts user authentication (rontaling userid, timestamp) with service session key	
send that along with service ticket (99))
Now service decrypts the service theket with 1ts secret key, grabs service service key and decrypts user authenticator.	
compares timestamp, sp. userid like in	

l

if everything ok > checks cache > g used authenticator NOT already in rache ? Typlay protection 6) Service Creates service creation

service auther Hicator

service id, timestamp

encrypted by service session key

sent to user. user verifees souvice 9d, Himestamp

thrus For and caches an

encrypted copy of service ticket

for future use. Thus completing mutual authentication

KERBEROS REALM

