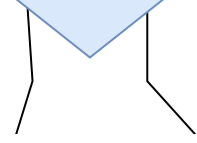
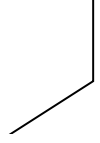


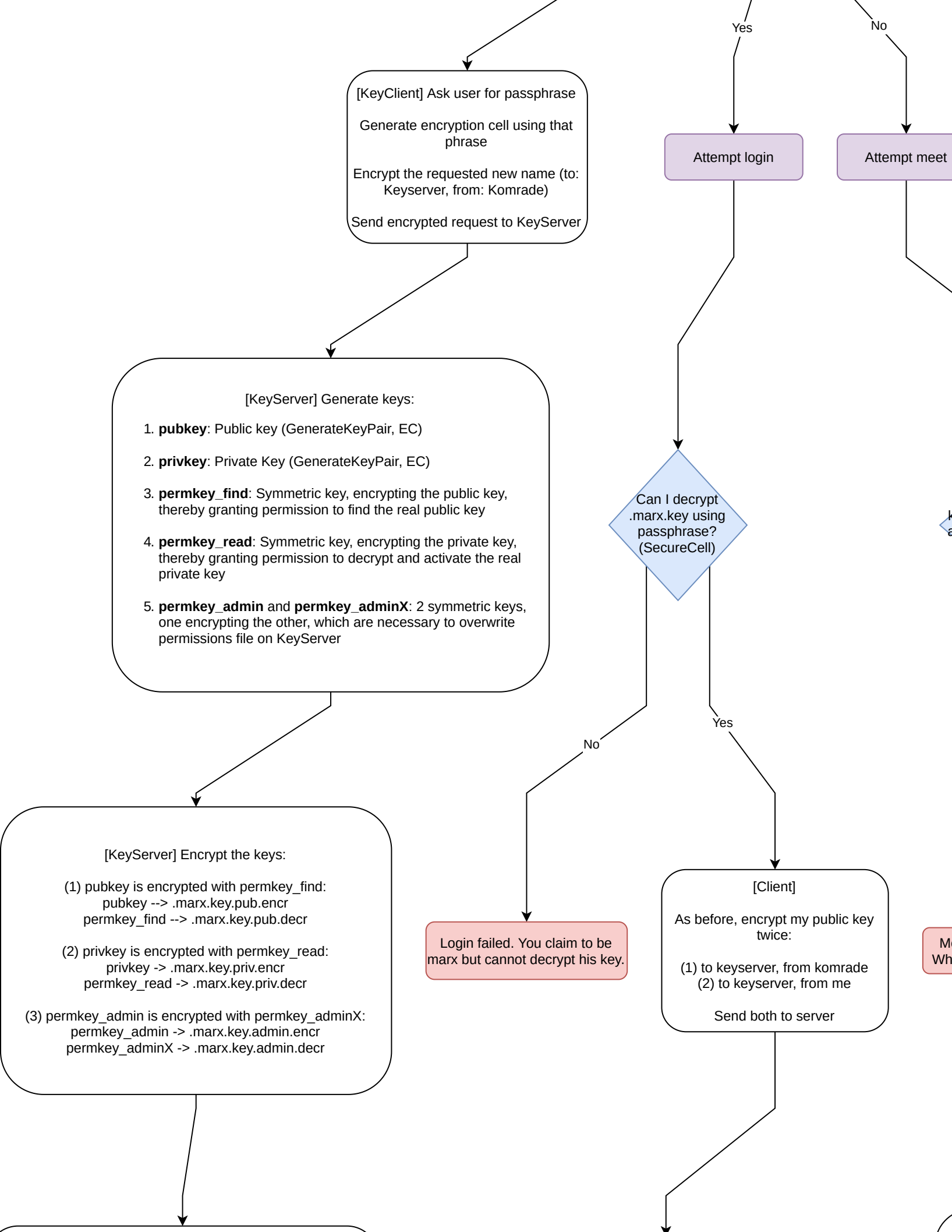
Attempt registration

Do I have a .max.key?









[KeyServer] Create permissions file

(A) Create secret URI for it in database:

secret\_admin key = pubkey encrypted with pubkey\_admin

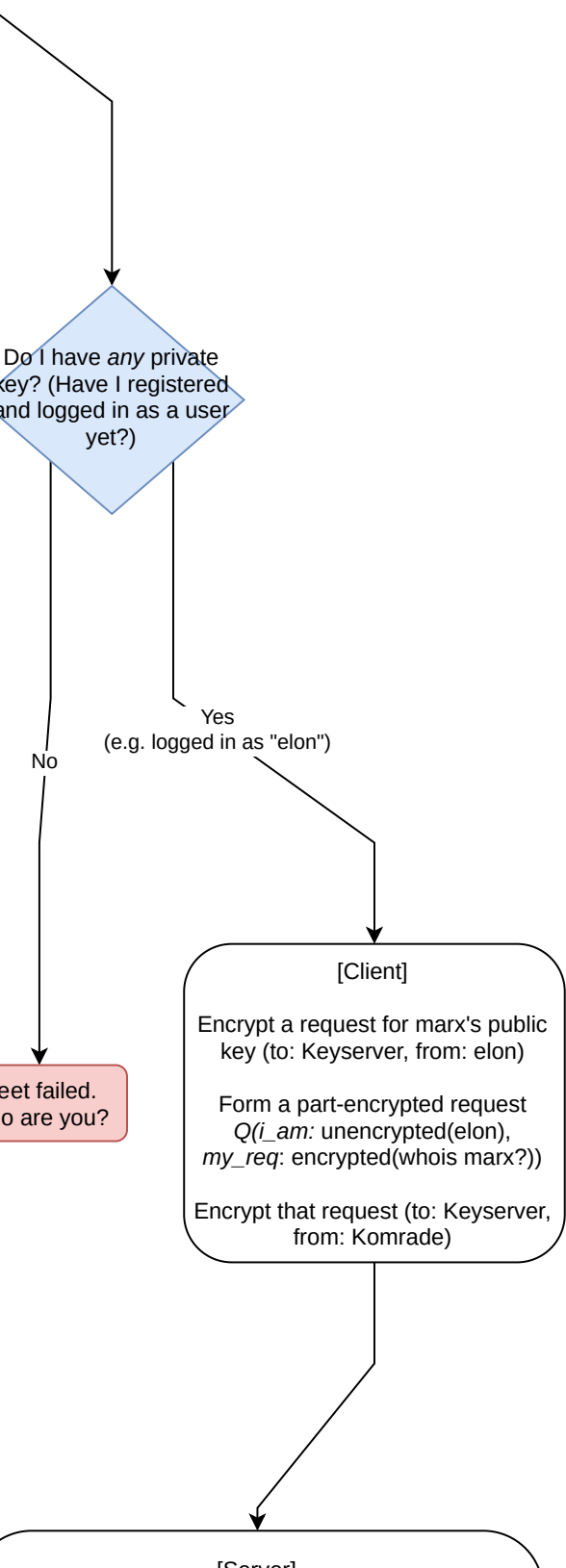
(B) Encrypt permissions string:

[Server]

Receive 2 encrypted public keys from user

Decrypt first public key:

to: me, from: komrade



Do I have any private key? (Have I registered and logged in as a user yet?)

No

Meet failed. Who are you?

Yes (e.g. logged in as "elon")

[Client]

Encrypt a request for marx's public key (to: Keyserver, from: elon)

Form a part-encrypted request  
 $Q(i\_am: \text{unencrypted}(\text{elon}), \text{my\_req}: \text{encrypted}(\text{whois marx?}))$

Encrypt that request (to: Keyserver, from: Komrade)

[Server]

[Server]

Receive double-encrypted request from client

Decrypt first time (to: Keyserver, from: Komrade) to reveal a second encrypted request [i.e.  $Q(i\_am: elon, my\_req: elon\text{-}encrypted\ 'whois\ marx')$ ]



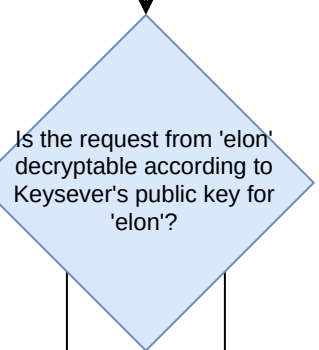


.marx.key.pub.decr  
.marx.key.priv.decr  
.marx.key.admin.decr

encrypted pubkey?

Get the encrypted public key I have on disk for 'elon',  
decrypt it (to: Keyserver, from: Komrade)

attempt to decrypt 'my\_req' using elon's loaded-from-  
disk public key



No

Yes

are  
was  
se.

[Server]

Encrypt marx's public key  
(to elon, from Keyserver)

Send marx's encrypted public  
key back to client

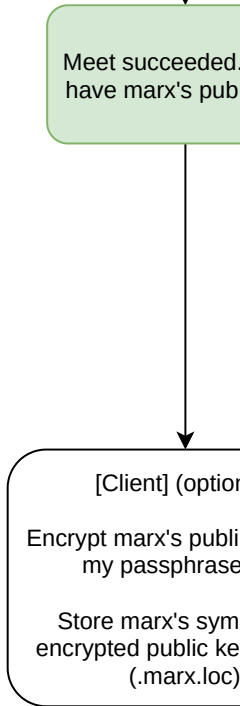
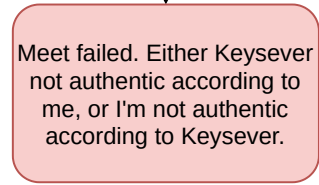
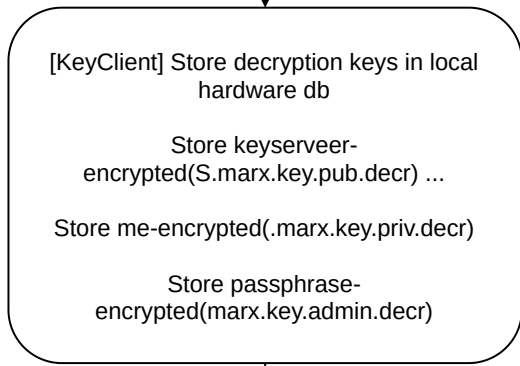
[Client]

Receive marx's  
encrypted public key

to decrypt it (to me,  
from: Keyserver)

s







I now  
ic key.

nal)  
c key with  
-key  
metric-  
y on disk





Logged-in user "elon" wants to read the posts stored in a particular channel or inbox (e.g. "/inbox/user" or "/inbox/group" or "/inbox/world")

Do I have that person's private key?

No

Read failed. You can't decrypt it. Don't try.

Do  
whic

D



Yes

Download Keyserver's public key,  
which is encrypted for Komrade, from  
Keyserver

Decrypt Keyserver's public key

