

# What Roles are we playing?

High Level

Low level  
ZMQ

- ① Publisher → (a) client of Discovery service  
(b) publisher of topics

REQ, connect to discovery at IP: Port  
PUB, bind to that socket on a port num

- ② Subscriber (a) client of Discovery service  
(b) subscriber to topics

REQ, connect to Discovery at IP: Port  
SUB, setsockopt to subscribe connect to IP: port of publisher that publishes that topic

- ③ Discovery (a) server for lookup operation

REP, bind socket to a port

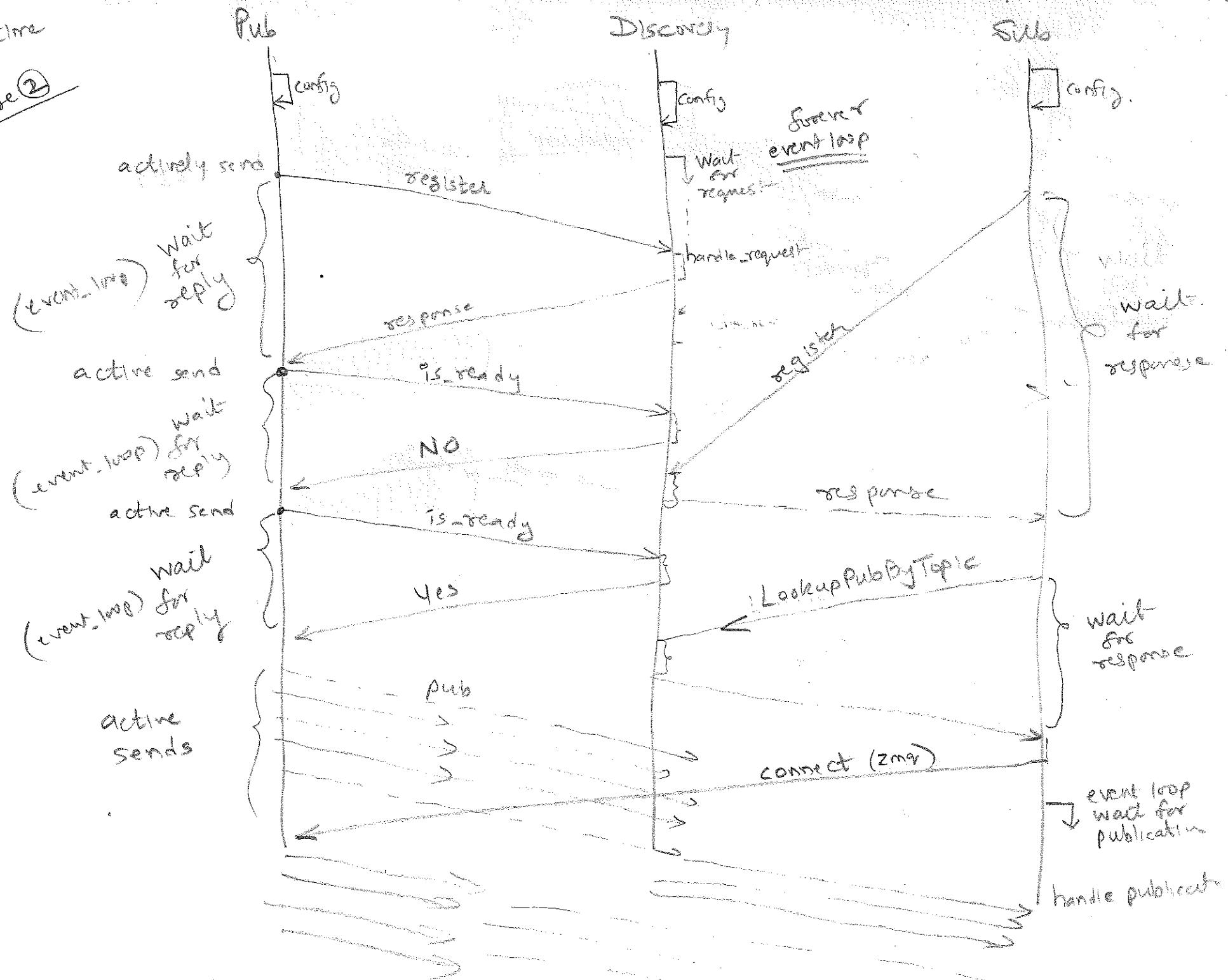
- ④ Broker (a) client of Discovery service  
(b) publisher of topics (on behalf of real publishers)  
(c) subscriber of topics (on behalf of real subscribers)

REQ

PUB

SUB

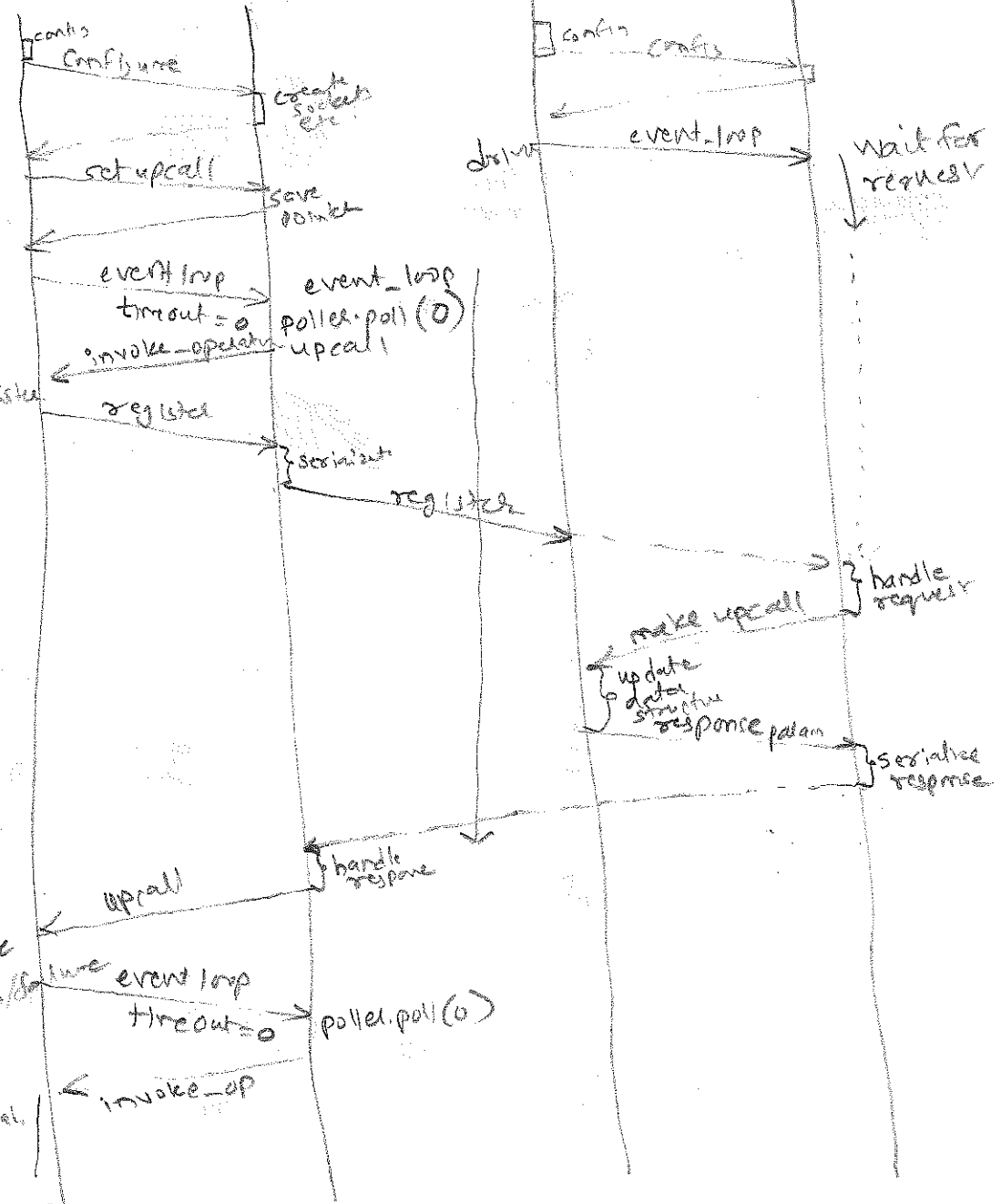
time  
↓  
Page ②



PubApp      PubMN      DSC App      DISC MN      SubApp      SubMN

driver  
code

State = REGISTER



PubMN