



Check if it can find \$CID and at what price.  
Sends back to browser a {yes, higher price}  
Browser sends funds to a RP on a single-use wallet.  
RP waits to see funds appear in wallet.  
Then RP downloads from SM, caches retrieved file, and then returns data to Browser.

# RP (retrieval proxy)

- Is running its own Lotus daemon
- Accepts wss:// connections on 443
- Caddy (nginx) webserver listening on 443
  - Caddy terminates SSL and forwards to internal 127.0.0.1:XXX port to service request
    - OR
  - Caddy acts as a server responding to requests from browser
- Either way, some js (node?) server application implements the logic on previous slide
  - Will need to talk to the Lotus daemon (to find the CID and its price; to do the retrieval; to create single use wallets and wait for them to receive funds)
    - Shell out: `watch lotus wallet balance <wallet addr of single use wallet>`
- Database to track state of each request

# DB Schema

- (Note: “client” = browser here)
- client\_states
  - id primary key
  - client secret token
  - \$CID requested by client
  - wallet addr generated for client
  - stage -
    - RECVD\_CID
    - RETURNED\_CID\_AND\_WALLET
    - WAITING\_FOR\_WALLET\_FUNDS
    - RETRIEVING\_FROM\_SM
    - READY\_FOR\_CLIENT\_RETRIEVAL
    - TRANSFERING\_TO\_CLIENT
    - DONE
  - temp\_file\_path
  - datetime fields for - row creation and DONE states reached