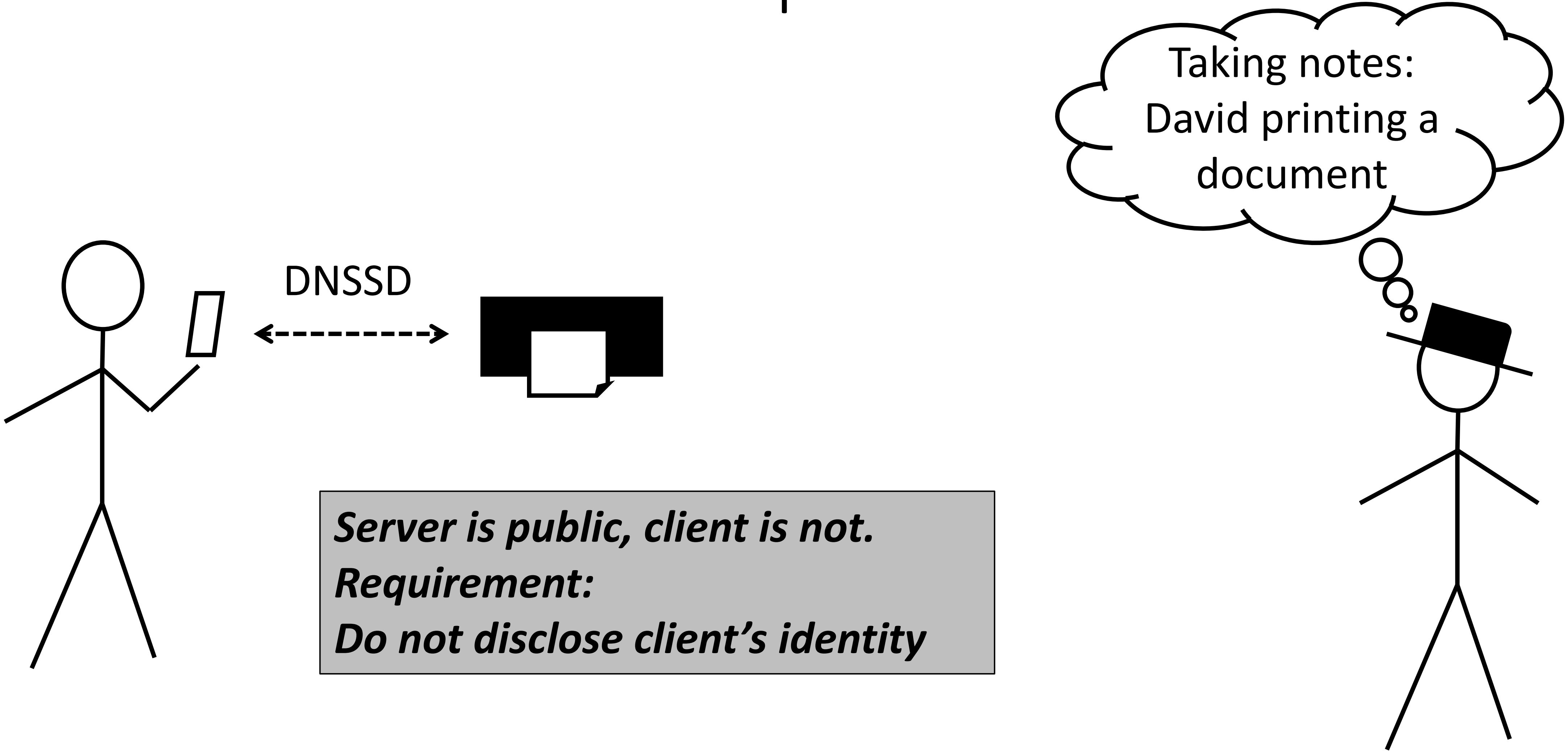
DNSSD Privacy Scenarios

Scenario 1: Coffee Shop Printer

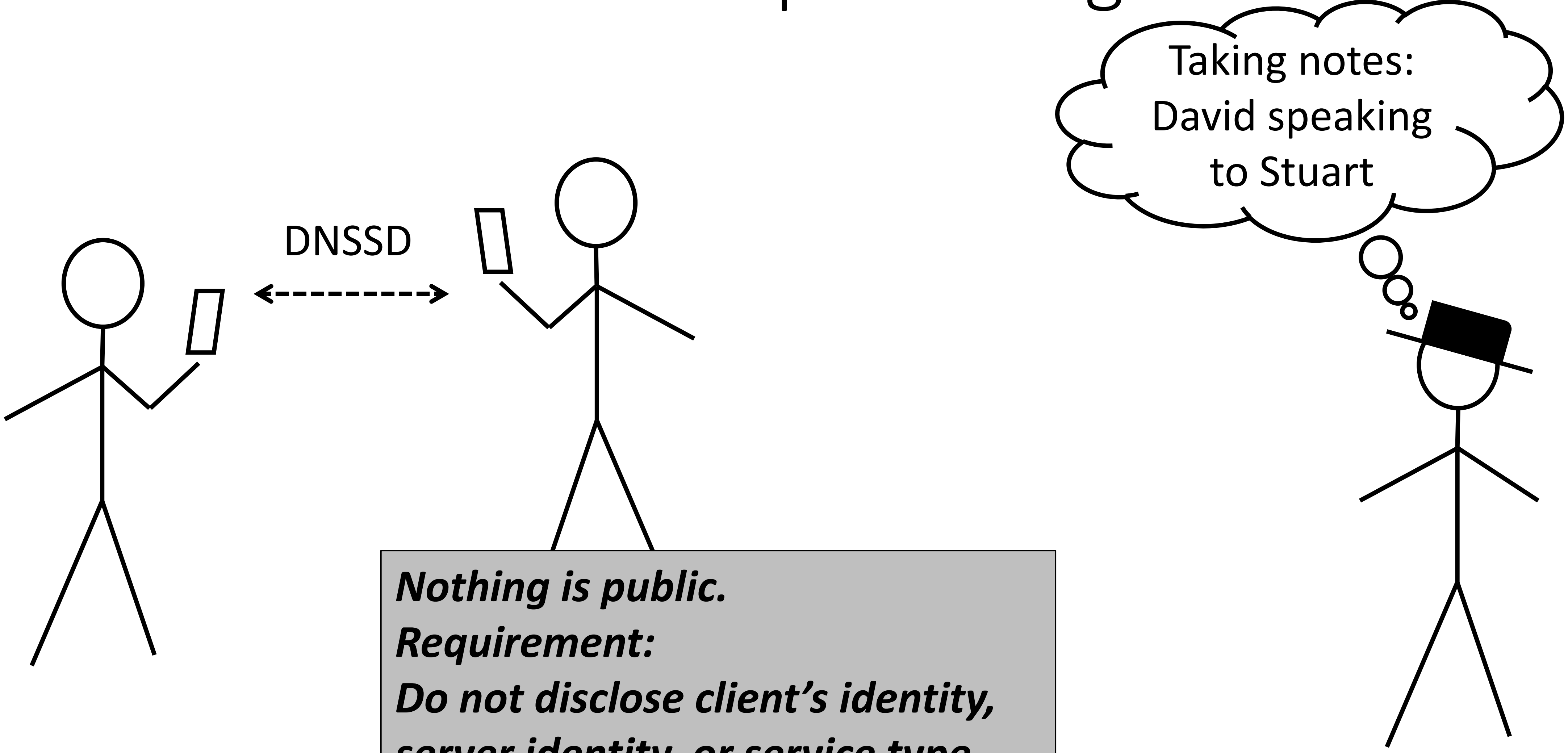


Server is public, client is not.

Requirement:

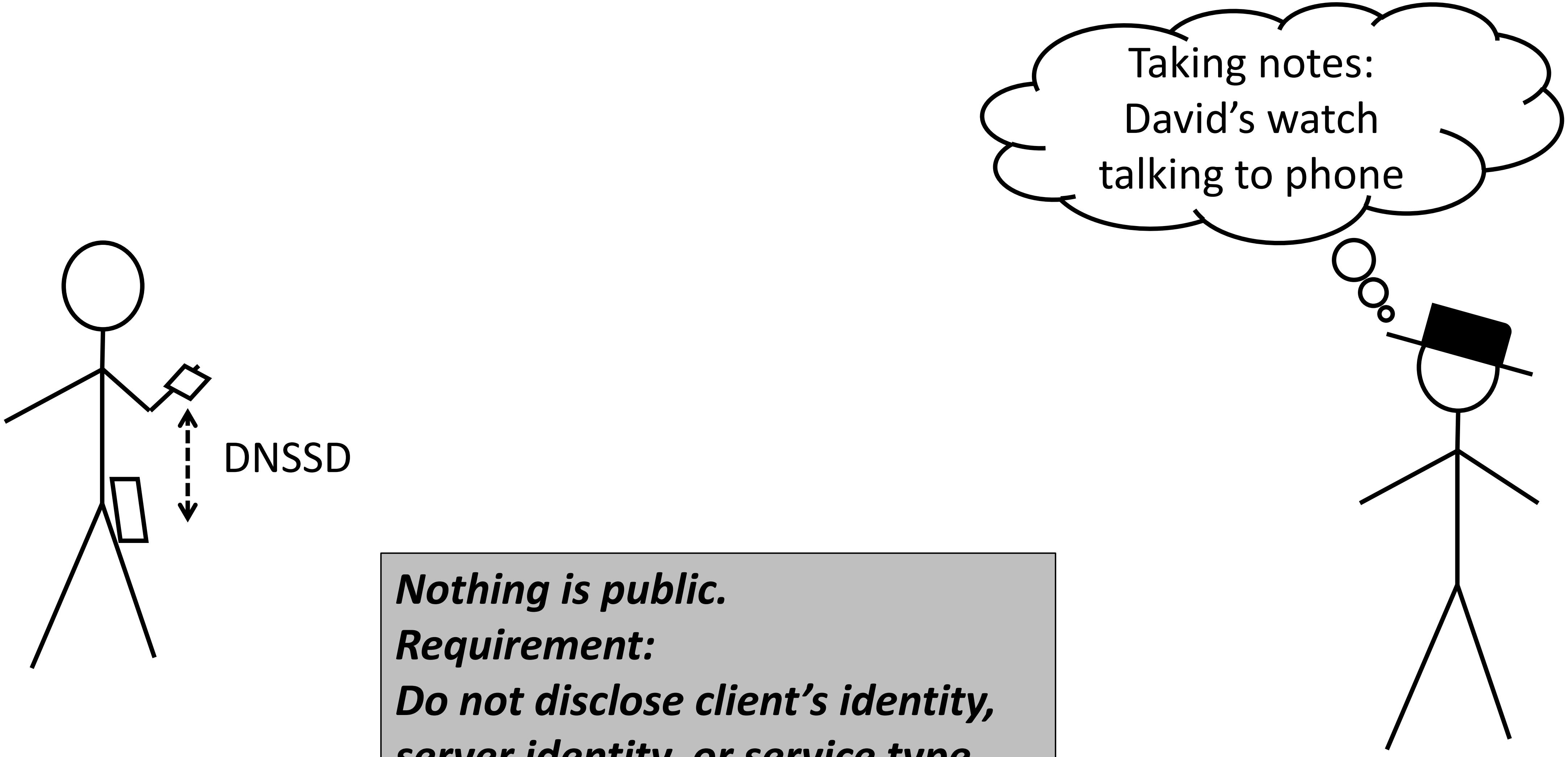
Do not disclose client's identity

Scenario 2: Coffee Shop Meeting



Nothing is public.
Requirement:
Do not disclose client’s identity, server identity, or service type

Scenario 3: Wearables



DNSSD

Taking notes:
David’s watch
talking to phone

Nothing is public.
Requirement:
Do not disclose client’s identity, server identity, or service type

Privacy and authorization, 2 approaches

- Privacy requires some kind of secret
    - Obfuscate or encrypt queries, announces, responses
- Secret may or may not be used for authorization
- Two models:
    - Secret Identifies the Client (as in DNSSD privacy/pairing draft)
    - Secret provides light weight “discovery” filter, authorization happens once connection is established
- Issue:
    - Different applications have different authorization frameworks
    - Light weight mechanism may be more acceptable