IPSECA: are we choosing between security suites?

draft-osterweil-dane-ipsec-00

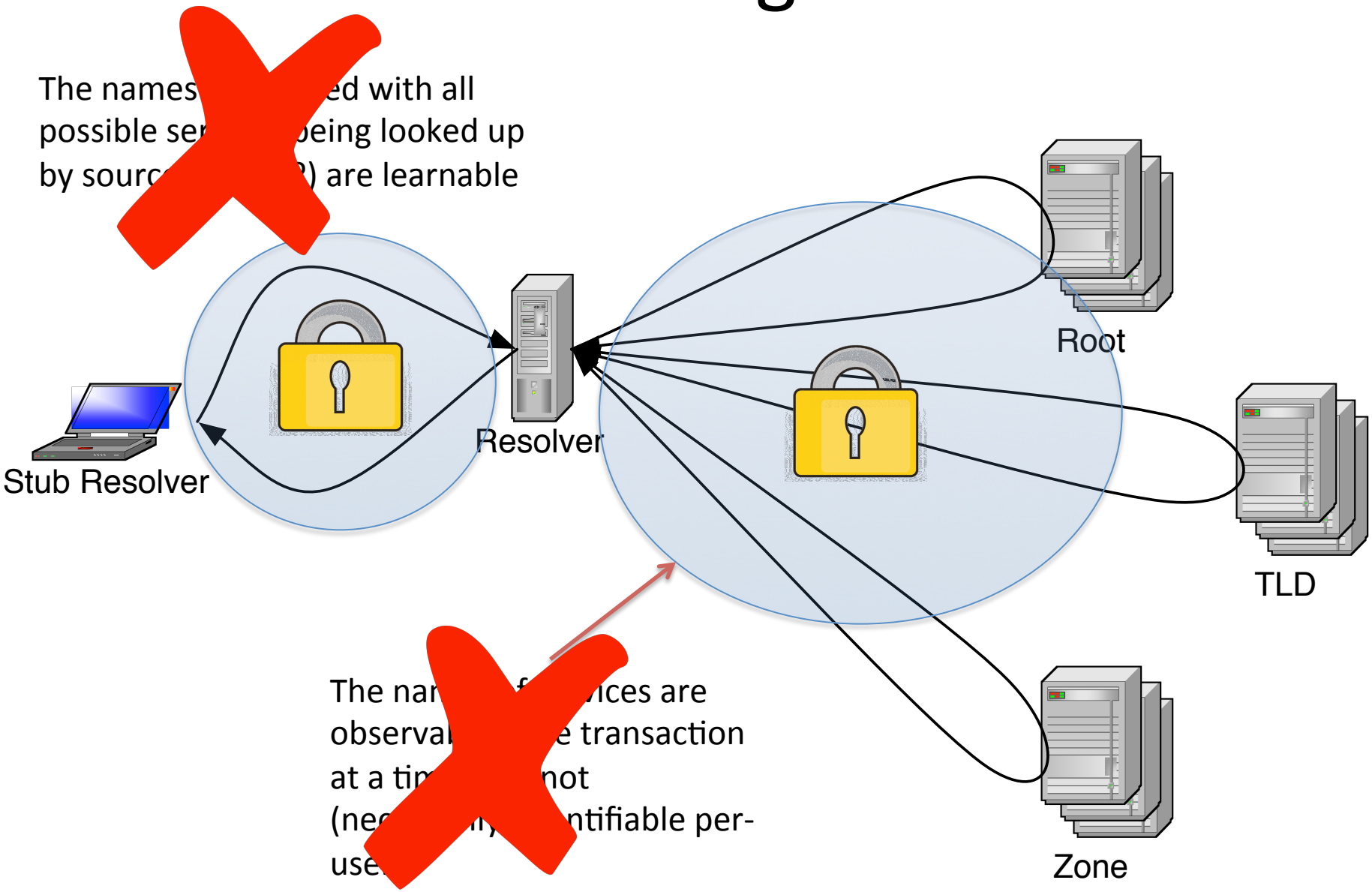
- DNSSEC is great, but doesn't try to offer privacy, transactional protections, etc.
- DNS can leak info… blah blah blah (see minutes from dnse)
  - We should worry about both the stub-to-resolver and resolver-to-name server hops [separately]

What's the point of this draft?

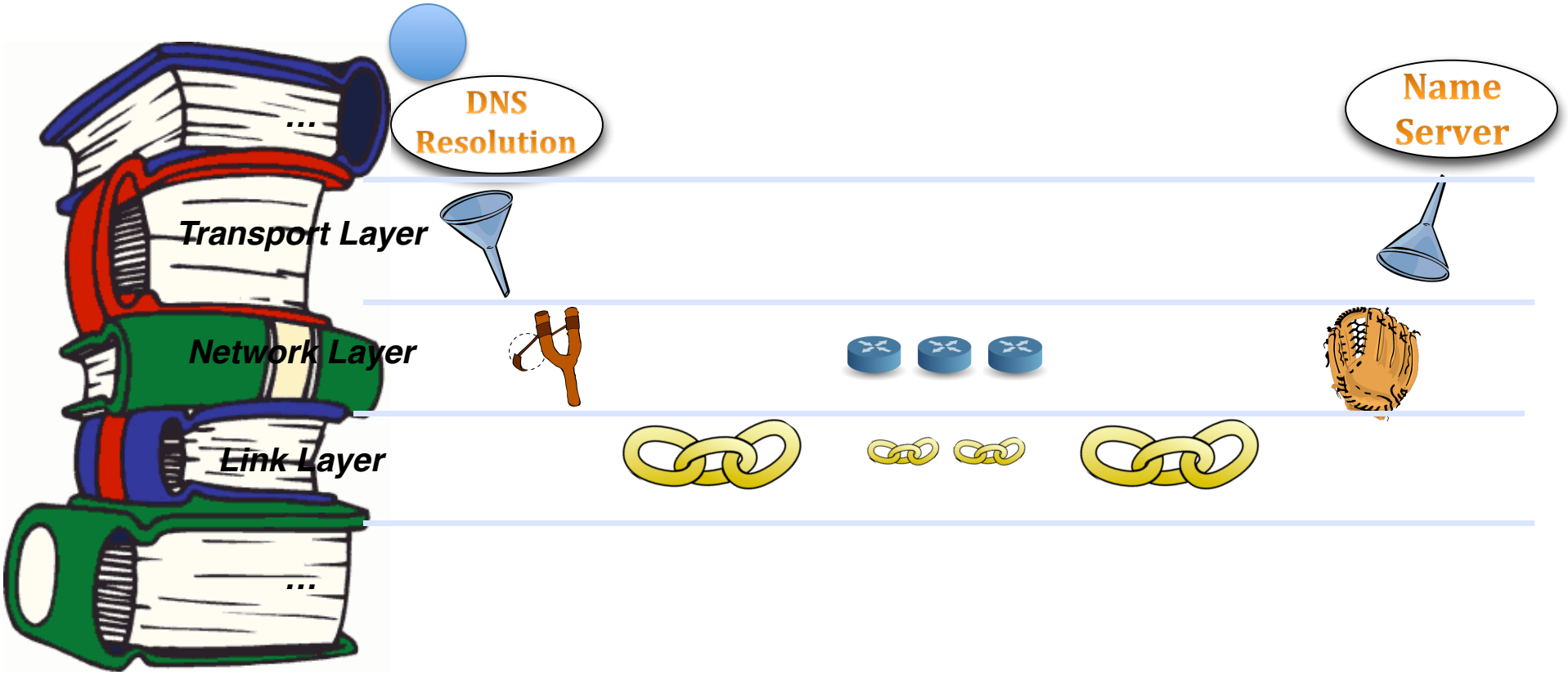
- Harmonize IPsec key learning with DANE
- Offer service-level transaction protections w/ IPsec (using OE)

- The idea: offering different security solutions to security practitioners allows us to effectuate the postures we need
  - Different deployments may benefit from different postures

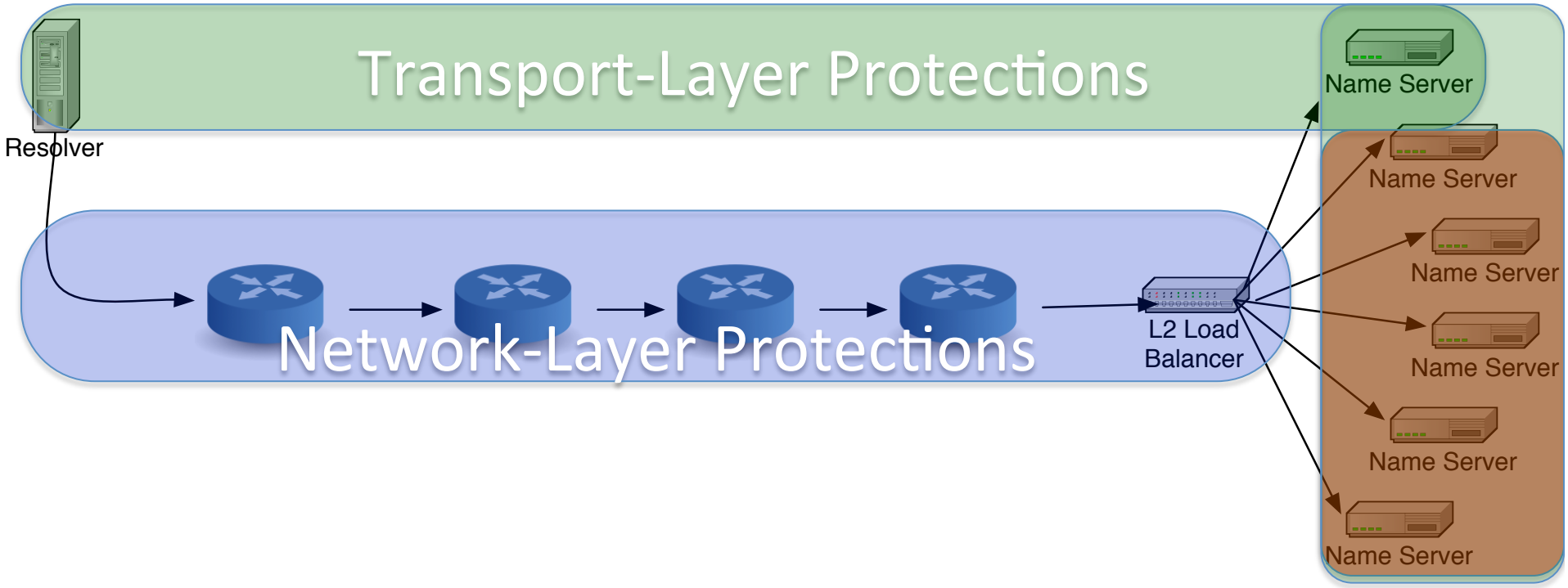
Well known stages of DNS



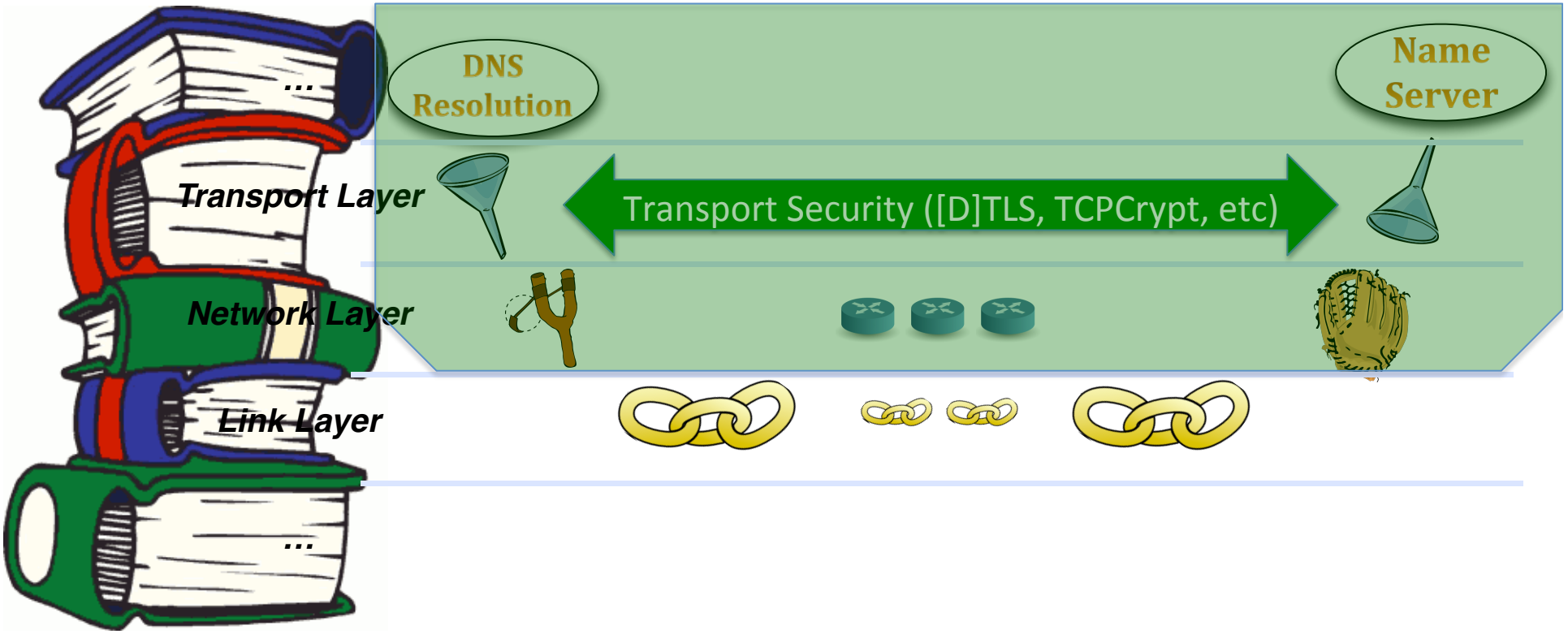
Passing DNS around the stack



Example solution scopes



Passing security up the stack



So?

- Well, figuring a practiacl usage of IPsec for DNS might teach us some lessons about *this type* of OE

- From this, maybe we can specify some things from this general utility
  - This was the motivation for starting with a DNS focus

Thanks!

Questions?