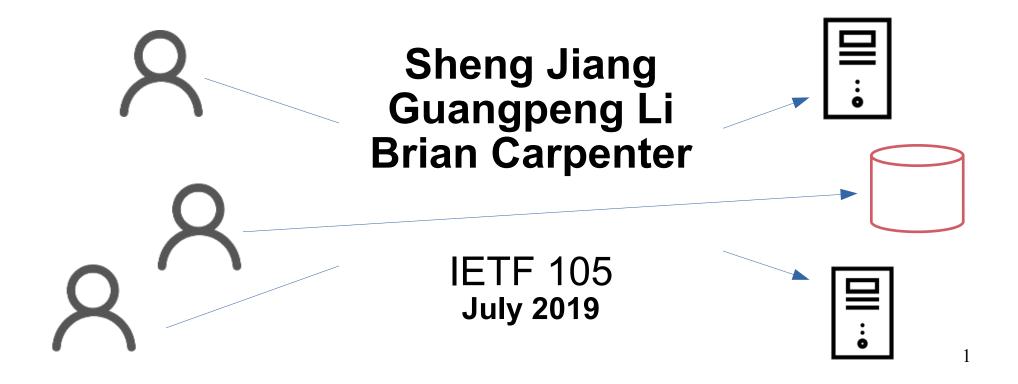
# Service Oriented Internet Protocol draft-jiang-service-oriented-ip



# Why?

- End to end IP service is no longer a safe assumption
  - There will usually be middleboxes
- Users want specific services, not IP addresses or URLs
- ISPs want to provide some services & redirect to others

#### What?

- Use the service type requested, not an IP address, to forward packets at the network edge
- Services are abstracted as Service Action Types (SAT) which are small integers
- Near the user, packets are routed by SAT not address
- Of course, IP reachability is one of the available services

## How?

- Some SAT examples:
  - 1. IPv6 reachability
  - 2. IPv4 reachability
  - 3. Discovery
  - 4. Computation service
  - 5. Storage service
- Packet format derived from IPv6
  - But there's an SAT instead of a destination address
  - And other goodies that look like a layer violation

### Where?

There's toy code for both TLV and CBOR versions of SOIP at

github.com/becarpenter/tlv/

Side meeting discussion:

Wednesday 08:30-09:45, Notre Dame (also discussing draft-jiang-asymmetric-ipv6)

