# Firewall and Service Tickets (FaST) Tom Herbert

IETF105

#### Problem

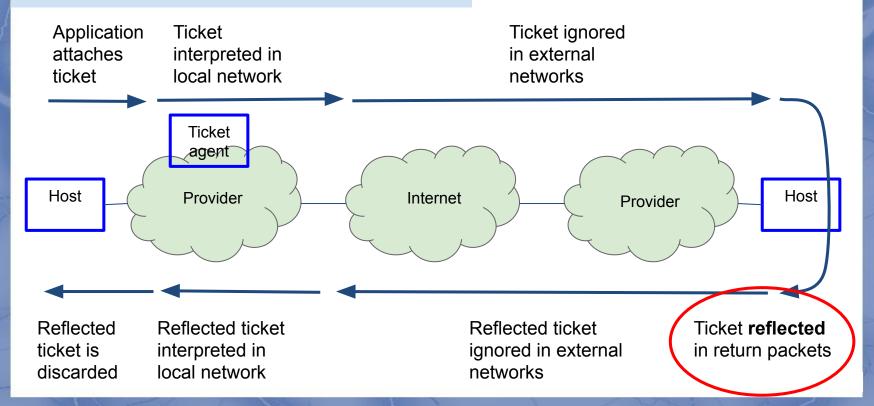
There is currently no useful, extensible, and secure mechanism that allows applications or hosts to signal the network to apply specific service to packets

#### Solution: FAST

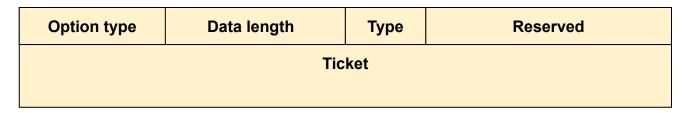
- Ticket agent issues tickets
- Tickets attached to packets
- Allow admission through firewall
- Grant network services to packet
- Tickets are stateless, bidirectional, secure, non-transferable and revocable



## Tickets in the datapath



# EH option format



- Option type: 0x4F\* for unmodifiable, 0x6F\* for modifiable option
- Data length: Normal option length
- Type: 0 for don't reflect, 1 for reflect, 2 for reflected ticket
- Ticket: ticket data

## **Participants**

- Local network
  - Ticket manager
  - Ticket aware FW and ingress service mappers
- Applications
  - Request tickets
  - Attach tickets to packets
- Peer servers on the Internet
  - Ticket reflection with interpretation

### Prototype Implementation

- FAST+ILA
- Mobility without needed mapping database

Thank you!