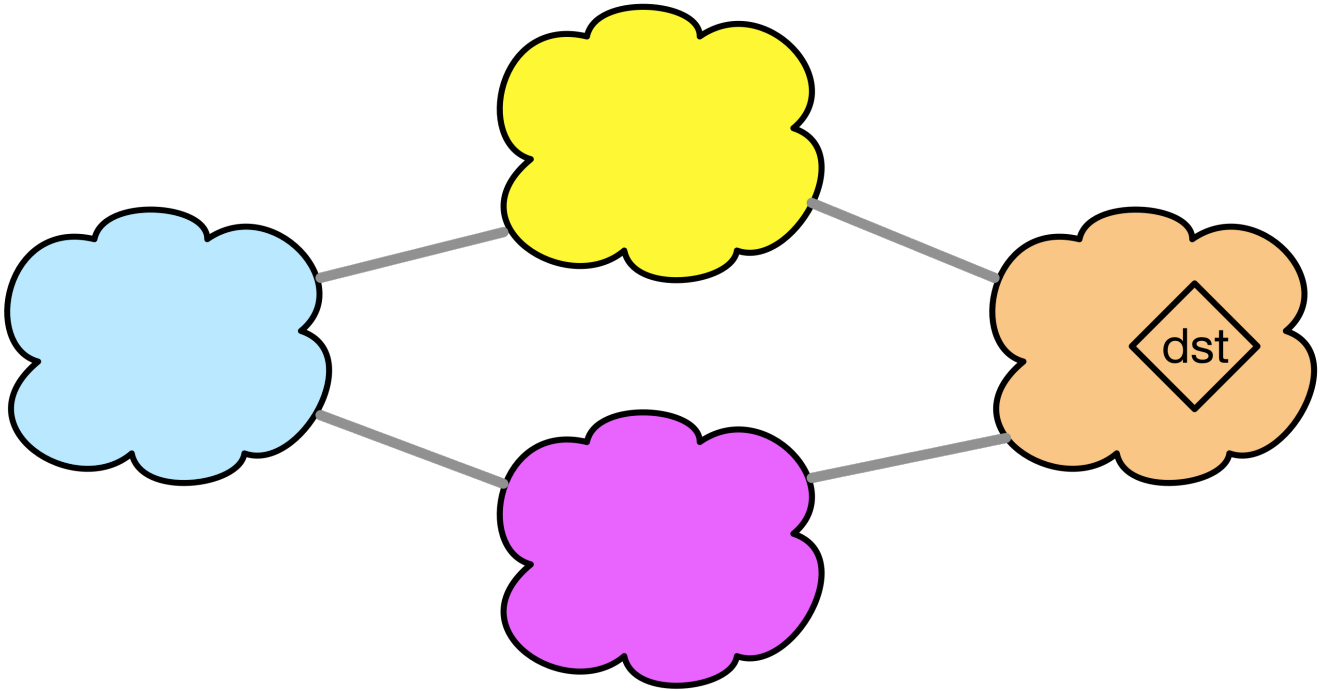
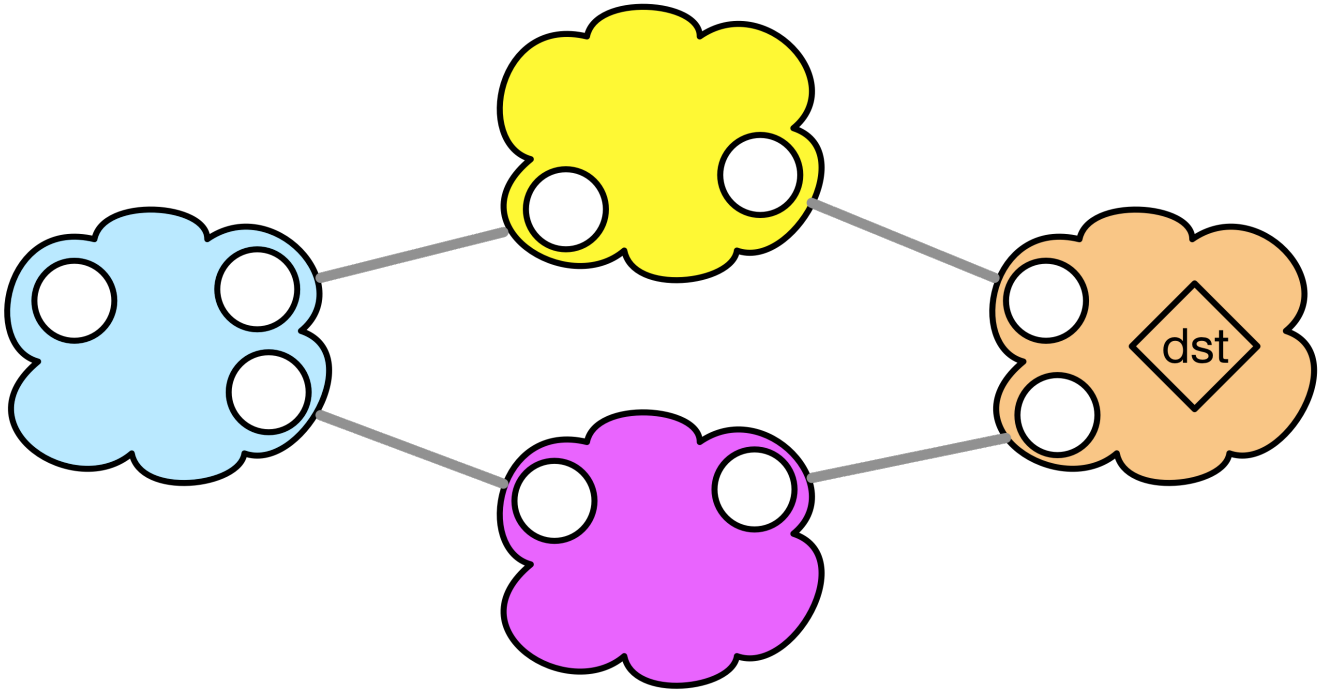
# Week 2: Topology and routes

1. Introduction and questions
2. **BGP updates**
   A. **Basics**
   B. Limits
3. Traceroutes
4. Conclusion

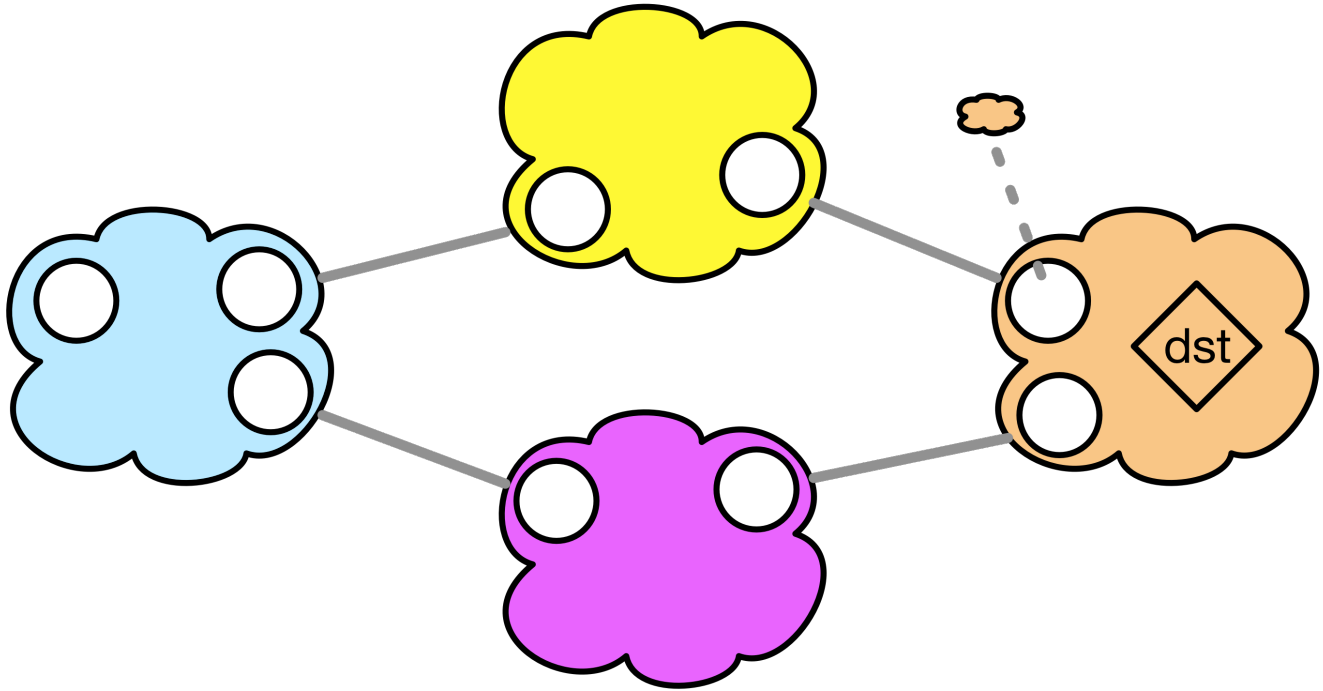
# BGP updates - Basics

- Routing protocols
  - Intra-domain: OSPF, IS-IS, ...
  - Interdomain: only BGP
    - ✓ Spans the internet - global information
- BGP updates
  - Oregon Route Views, RIPE Routing Information Service
    - ✓ Peering with BGP routers worldwide
    - ✓ Nearly 500 sessions for Route Views
    - ✓ 30-40 sessions for RIPE RIS

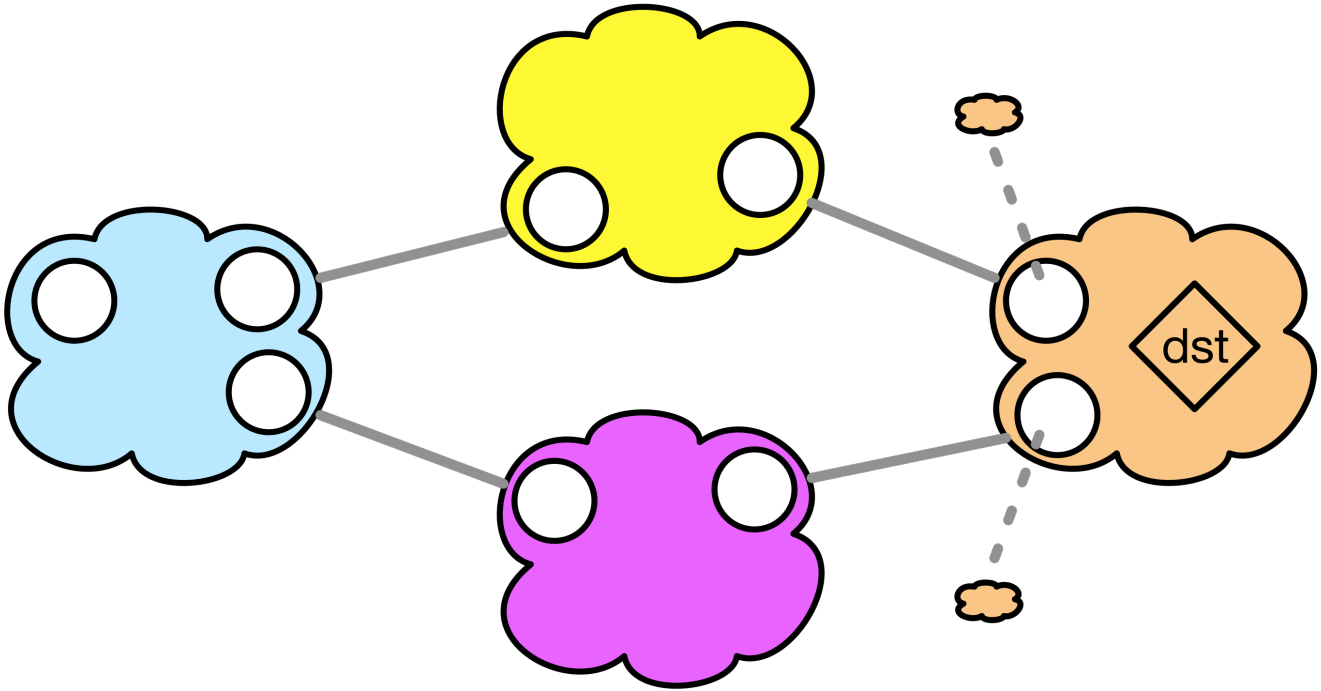

dst



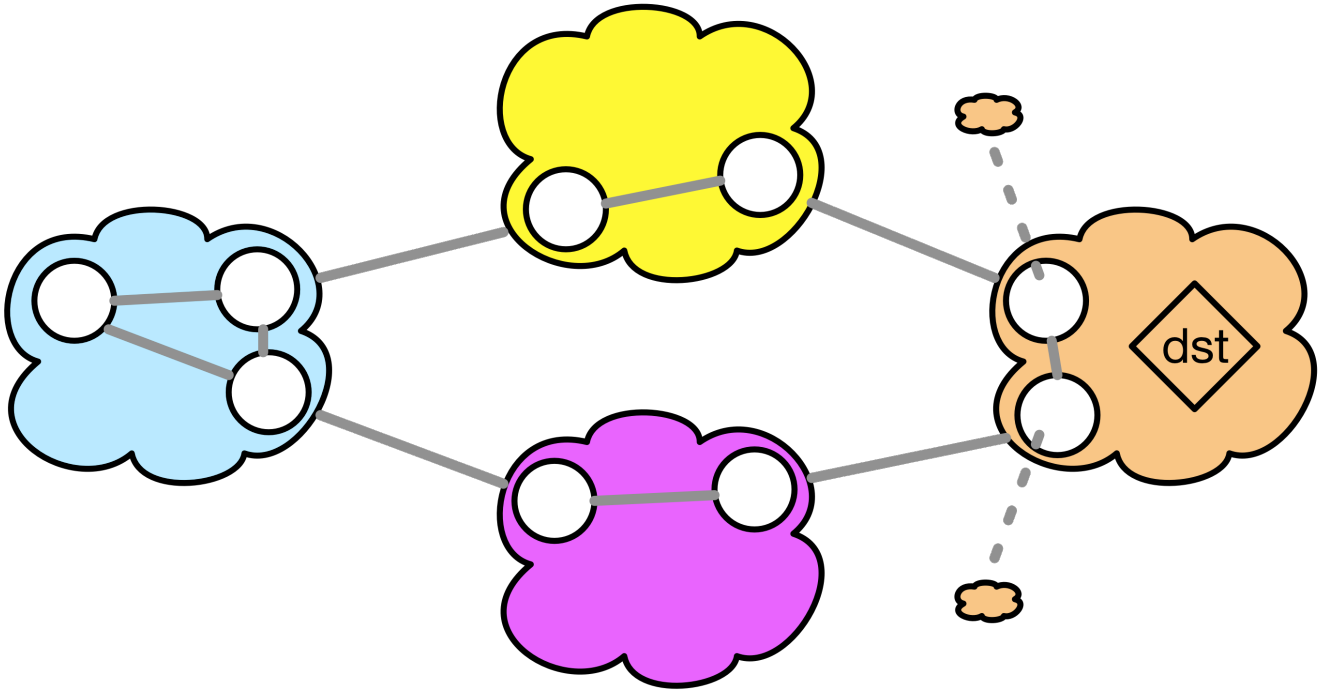

eBGP



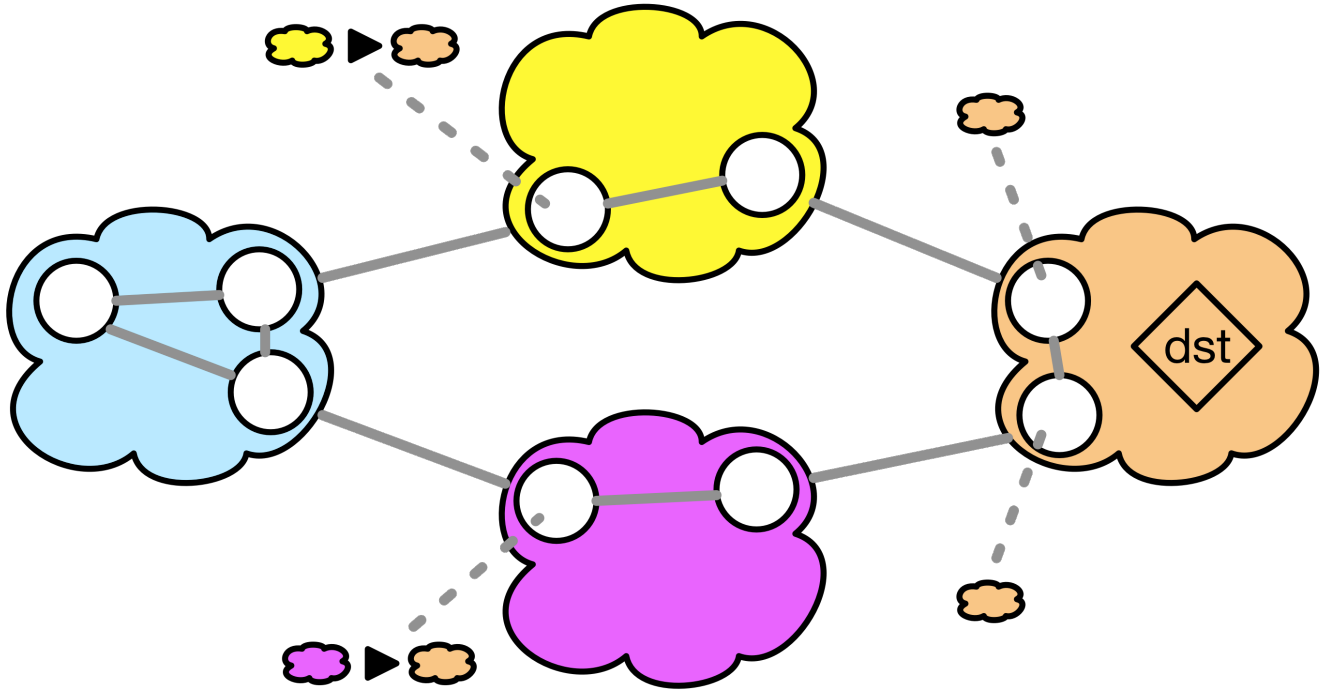

eBGP



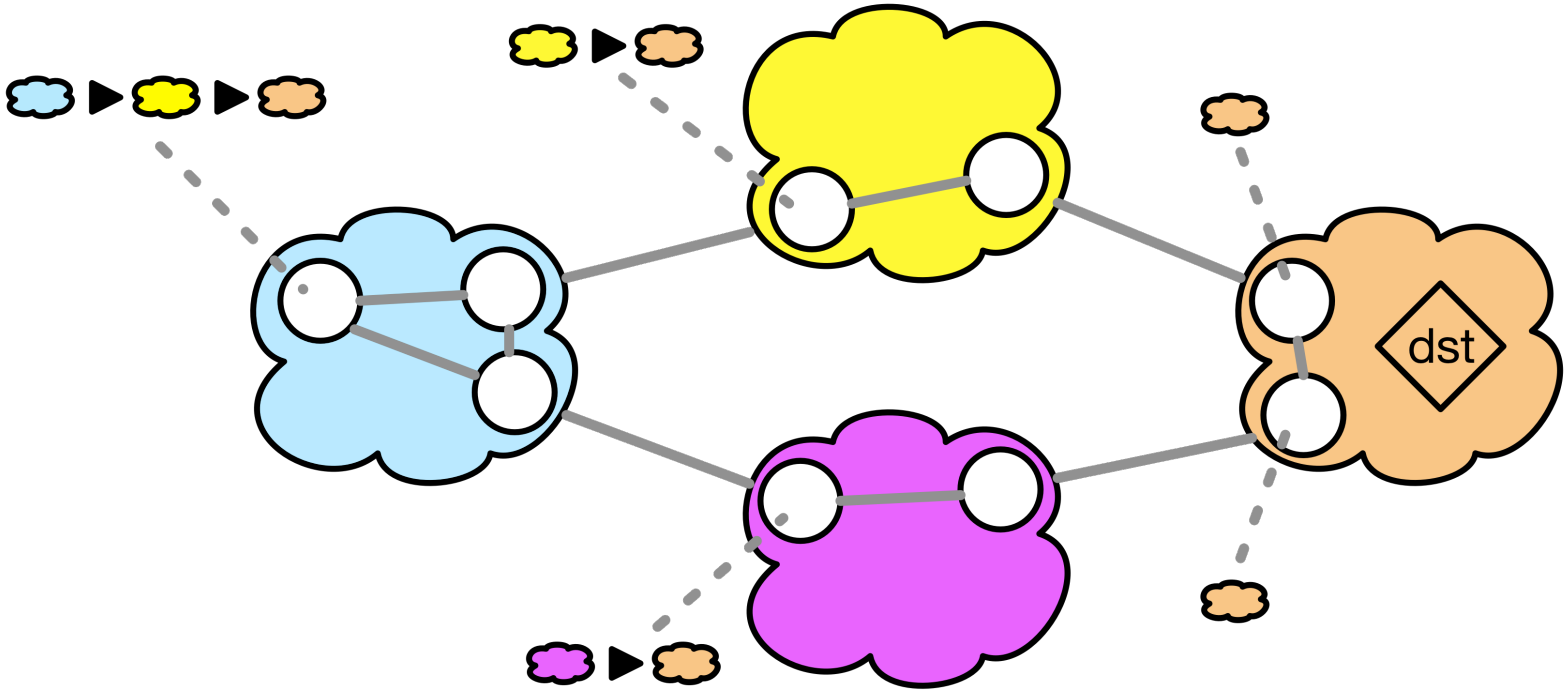

eBGP




eBGP
iBGP

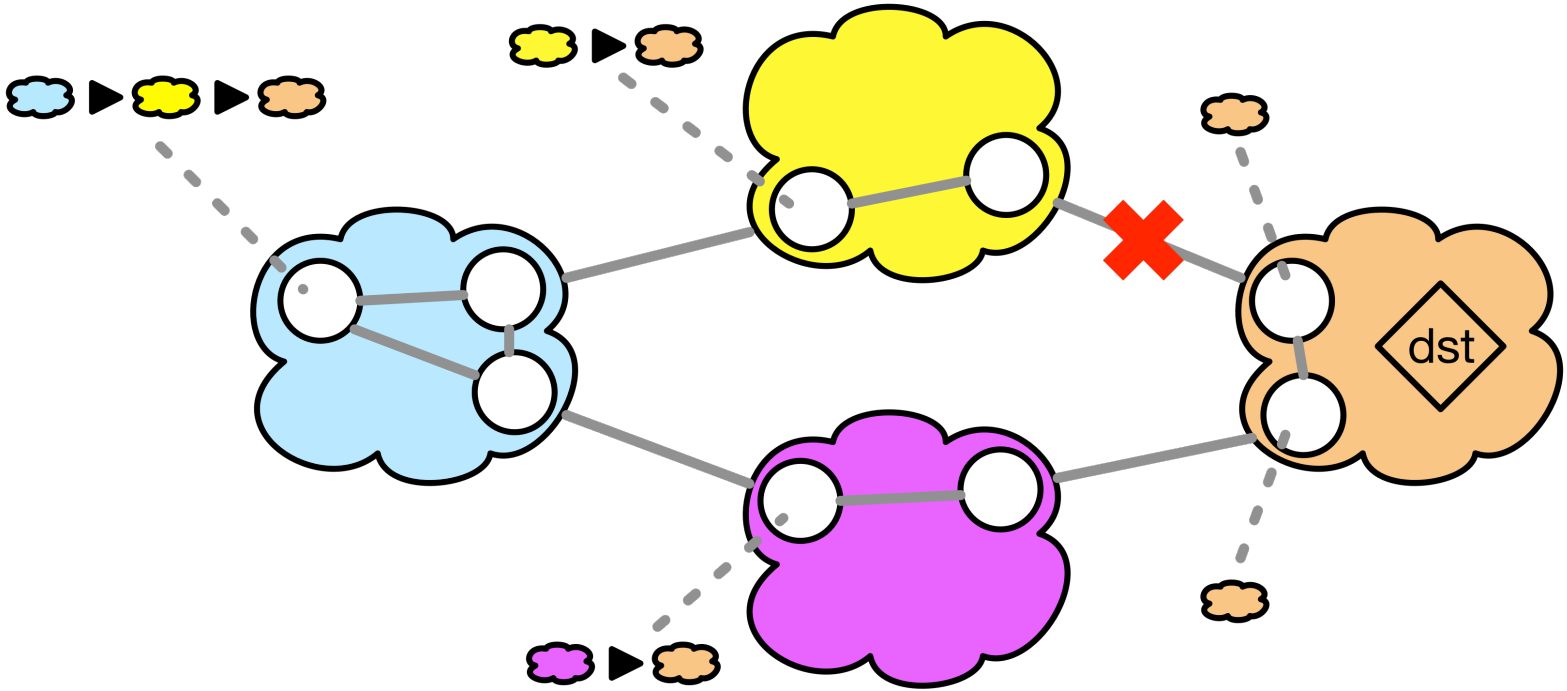


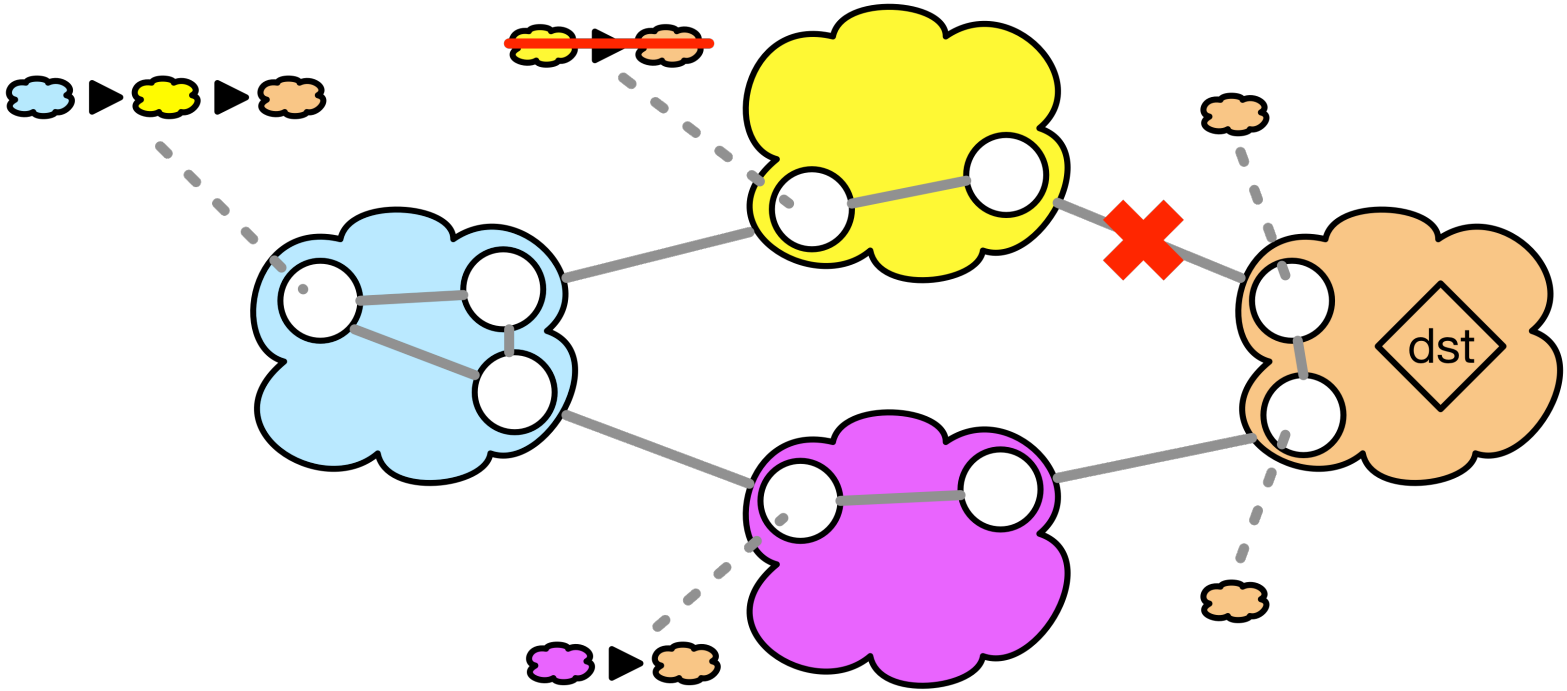

eBGP
iBGP

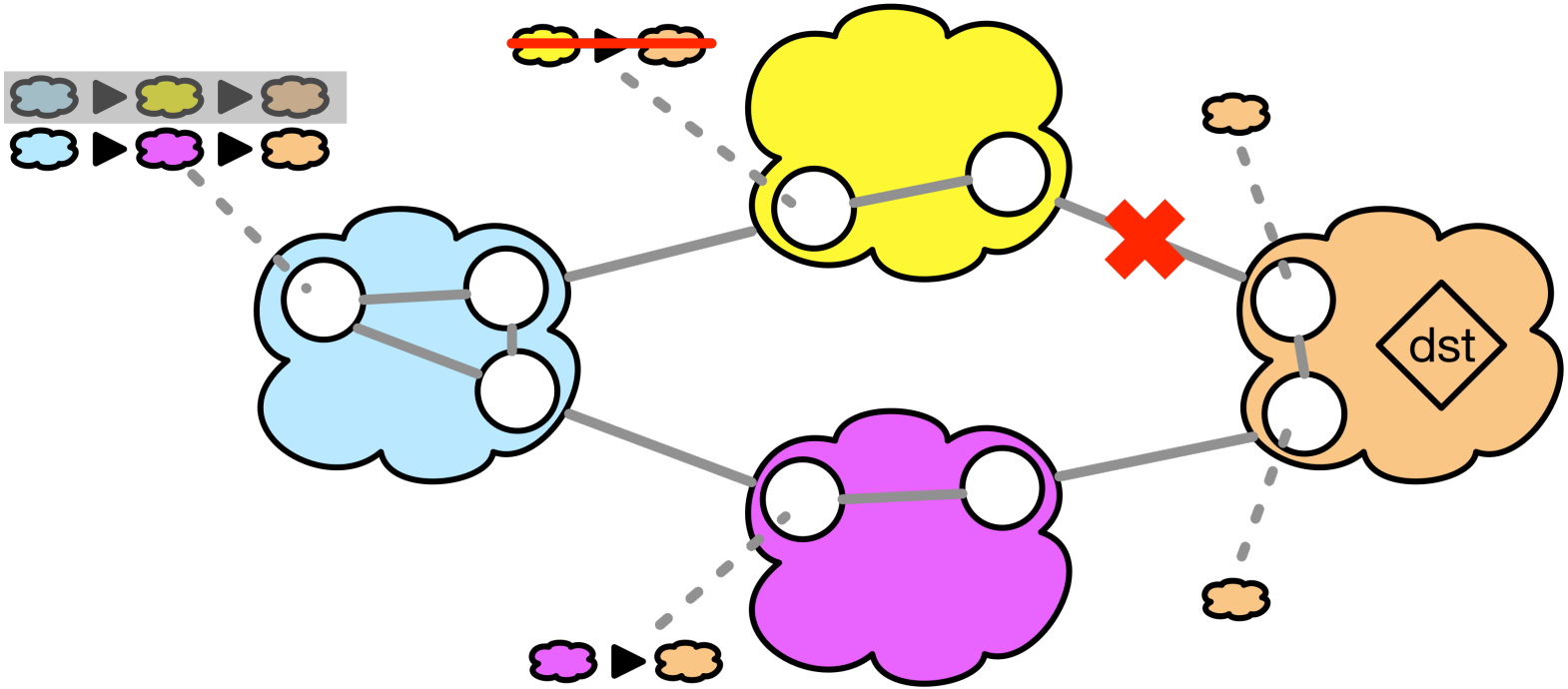



filtered

eBGP
iBGP


dst


dst


dst

# BGP updates - Basics

- BGP updates
  - How they propagate
  - What we learn
  - What we don't learn
    - ✓ Filtering
    - ✓ More...