

# Destination-IP-Community Filter for BGP Flow Specification

draft-wu-idr-flowspec-dip-community-filter

**Tianhao Wu**, Jun Ge, Xiangfeng Ding, Haibo Wang  
Huawei  
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# BGP Flow Specification

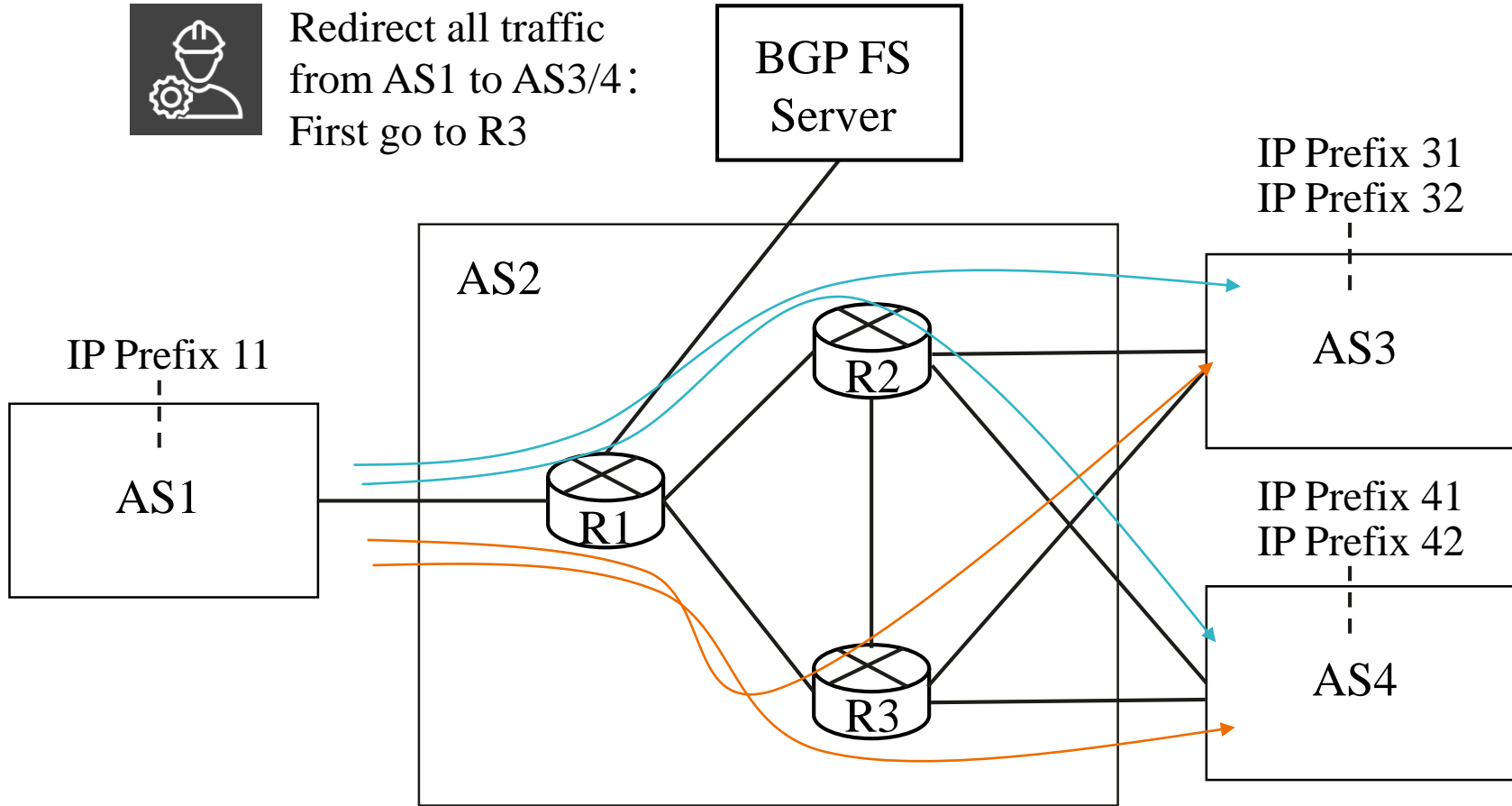
- BGP flow specification specifies the distribution of traffic filter policy via BGP. [RFC 8955] [RFC 8956] [RFC 9117]
- BGP-FS policies
  - Match condition: n-tuple match
  - Action: modifies the packet and forwards/drops the packet
- Traditional BGP-FS component type
  - Source Prefix
  - Destination Prefix
  - Port
  - IP Protocol
  - and so on

# In practice, excessive ACL entries are occupied.



Redirect all traffic from AS1 to AS3/4:  
First go to R3

BGP FS Server



→ before redirection  
→ after redirection

BGP FS Rules

Destination Prefix	Source Prefix	Redirect to IP Next-hop
Prefix 31	Prefix 11	R3
Prefix 32	Prefix 11	R3
Prefix 41	Prefix 11	R3
Prefix 42	Prefix 11	R3
More		

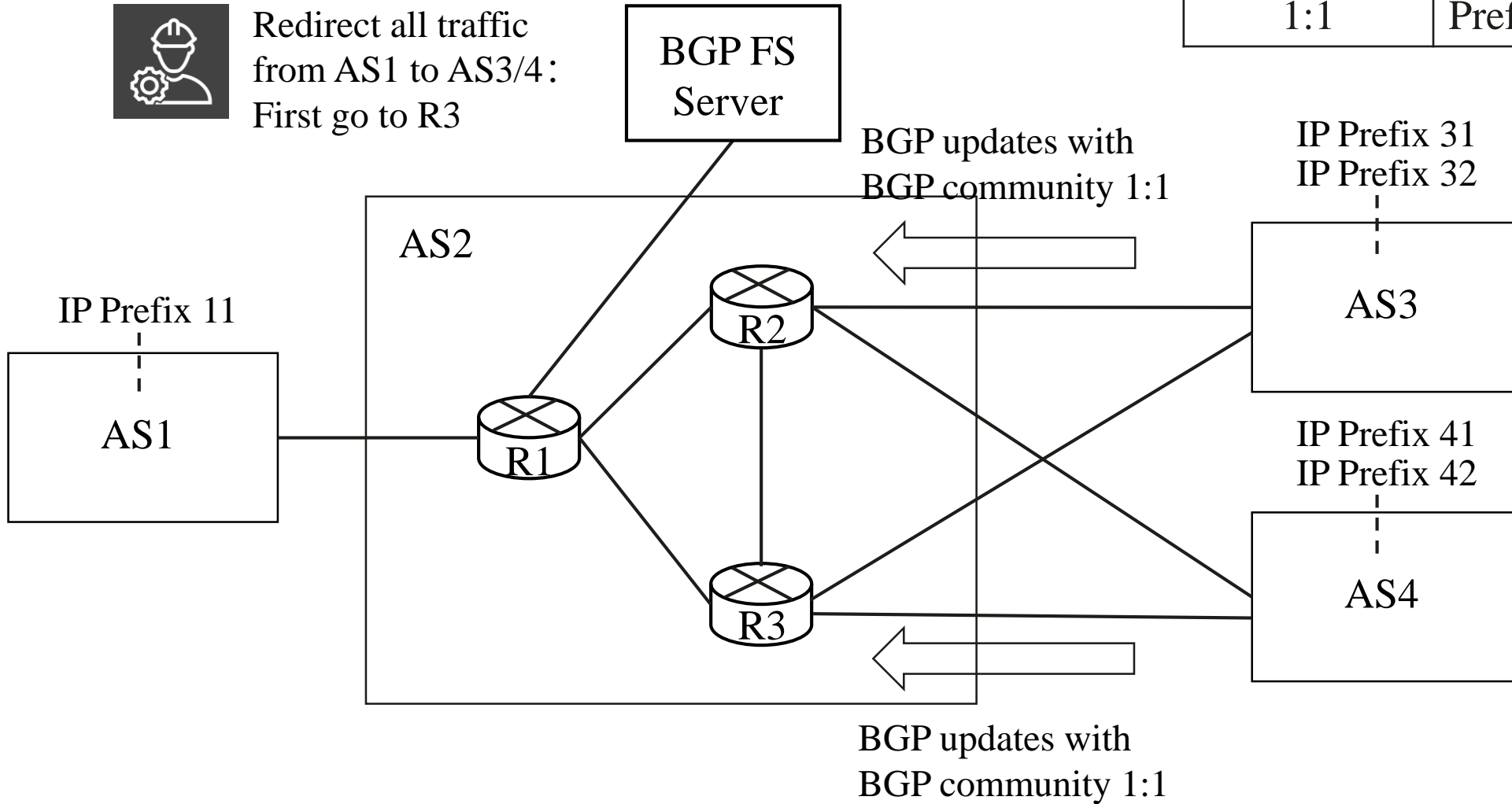
# What if, we use BGP community...

## BGP FS Rules

Destination Community	Source Prefix	Redirect to IP Next-hop
1:1	Prefix 11	R3



Redirect all traffic from AS1 to AS3/4:  
First go to R3





# Next Steps

- Add a Flow Spec v2 Section
- Keep improving the draft by discussions via emails