Biznet Internet Exchange

BGP Community Filtering Guide

BIX Operation Team

BGP Community Filtering Guide

Biznet Internet Exchange offers a set of BGP communities for peers using our Route-Servers.

By tagging your prefixes with specific communities, you can influence how and to whom the Route-Servers advertise your prefixes to.

Once you are connected, feel free to contact the Biznet Internet Exchange Operations team if you want to learn more about using our BGP communities.

BGP Communities can be used to control various functions of the route server. With these communities, you can:

- Control the redistribution of advertised prefixes, based on an ASN

- Prepend your own ASN

Supporting Community

Regular Community	How it works
0:PeerAS	Don't advertise the prefix to Peer AS specified in community
17451:661	Don't announce to Amazon
17451:662	Don't announce to Microsoft
17451:663	Don't announce to ByteDance
17451:664	Don't announce to GCP
17451:669	Don't announce to GGC
38060:101:PeerAS	Perform AS-Path prepend on route server. Add 1 AS in AS path
38060: 102 : PeerAS	Perform AS-Path prepend on route server. Add 2 AS in AS path
38060: 103 : PeerAS	Perform AS-Path prepend on route server. Add 3 AS in AS path
38060: 0 : PeerAS	Don't advertise the prefix to Peer AS specified in community
38060: 1 : PeerAS	Advertise the prefix to Peer AS specified in community

Filtering Policy

Name	How it works
Next Hop IP	Drop prefix whose next hop IP address is not itsself
AS path lengh	Drop prerix whose AS path length is longer than 32
bgp path first AS	Drop prefix whose bgp path first as is not itsself
AS transit and exchange	Drop prefix whose AS path include major transit AS and Exchange
bogon AS	Drop AS rfc7607, rfc6793, rfc5398, rfc6996, rfc7300
bogon prefixes	Drop prefix rfc1918, rfc3927, rfc5737, rfc3068, rfc2544, rfc5771, rfc6598
as-set filter	Drop prefix whose not the origin prefixes from the member and they dowstream
rpki	Drop prefix whose validity is invalid
prefixes lenght	Drop prefix /25 or longer (IPv4), /64 or longer (IPv6)

How to turn-up peer to RS

RS	ASN	IPv4 Address	IPv6 Address
RS Jakarta 1	38060	218.100.41.100	2001:DE8:11:3:8060::100
RS Jakarta 2		218.100.41.101	2001:DE8:11:3:8060::101
RS Surabaya 1		218.100.62.200	2001:DE8:11::3806:200
RS Surabaya 2		218.100.62.201	2001:DE8:11::3806:201
RS Malang 1		218.100.64.100	2001:DE8:11:1:380:60:0:100
RS Malang 2		218.100.64.101	2001:DE8:11:1:380:60:0:101
RS Semarang 1		218.100.63.100	2001:DE8:11:4:380:60:0:100
RS Semarang 2		218.100.63.101	2001:DE8:11:4:380:60:0:101
RS Jogjakarta 1		218.100.63.200	2001:DE8:11:5:380:60:1745:200
RS Jogjakarta 2		218.100.63.201	2001:DE8:11:5:380:60:1745:201
RS Denpasar 1		218.100.64.250	2001:DE8:11:3806:60::250
RS Denpasar 2		218.100.64.251	2001:DE8:11:3806:60::251

How to turn-up peer to RS

Vendor	Required configuration	Vendor	Required configuration
Cisco(IOS)	router bgp **** no bgp enforce-first-as	Huawei	bgp **** undo check-first-as
Cisco(IOS-XR)	router bgp **** bgp enforce-first-as disable	Brocade(IronWare)	router bgp **** bgp enforce-first-as disable