## How do I configure a BGP Session to the Routeservers?

Before you follow this FAQ article, please read our FAQ article about how to get an BGP session. This is supported for our Co-Location customers. FAQ-article.

We accept the following BGP communities:

24961:666 - Public Blackhole - map to 65535:666 and Peer-specific community

24961:1XZZZ - Announcement control

X value definition

0 do not announce

1 prepend once

2 prepend twice

3 prepend thrice

Z value definition

000 All peers

001 All upstreams

002 All peerings

003 All public peerings

004 All private peerings

In this FAQ article you can find example configuration snippets for Arista, FreeRangeRouting and Juniper routers.

As a general rule, you will need to set static /32 or /128 Routes to the multihop BGP Routeservers with the nexthop being your normal default gateway for IPv4 or IPv6.

Additionally you will need to configure import/export filters for the BGP session. While we (myLoc) filter the BGP session from our side as well, this is good practice to do from both sides.

Lastly, you will need to configure the actual BGP session to the Routeservers with the following IPs and the BGP session password that we gave you when provisioning your session:

#### IPv4:

- 62.141.40.144
- 62.141.40.145
- 62.141.40.146
- 62.141.40.147

### IPv6:

- 2001:4ba0:1336::1

- 2001:4ba0:1336::2

- 2001:4ba0:1336::3

- 2001:4ba0:1336::4

myLoc ASN: 24961

Keep in mind that the default BGP timeout is 300 seconds. This means that if you are announcing prefixes from more than one location, the prefix might be available for up to 300 seconds after a problem occured.

In this case it might be advisable to either change the BGP timeout to less than 300 seconds, Page 1/5

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or enable BFD, which we also support with our routeservers.

Please take care to replace the default gateway for the static routes in the following examples to the IPs applicable to you. As well as any import/export filters you might want to apply. Generally, these snippets are mostly provided as examples. It is quite possible that you need additional configuration to support your use-case. This example will only export prefixes that originate from your router, if you have customers yourself, you will need to adjust the filters.

### **Arista Config:**

```
ip as-path access-list NULL-AS permit ^$ any
ip prefix-list ALLOW ALL seg 5 permit 0.0.0.0/0 le 24
ip prefix-list ANNOUNCEv4 seg 5 permit YOUR-PREFIX(es)
ipv6 prefix-list ALLOW ALL
 seq 10 permit ::/0 le 48
ipv6 prefix-list ANNOUNCEv6
 seq 10 permit YOUR-PREFIX(es)
ip route 62.141.40.144/32 YOUR-Default-GW
ip route 62.141.40.145/32 YOUR-Default-GW
ip route 62.141.40.146/32 YOUR-Default-GW
ip route 62.141.40.147/32 YOUR-Default-GW
ipv6 route 2001:4ba0:1336::1/128 YOUR-Default-GW
ipv6 route 2001:4ba0:1336::2/128 YOUR-Default-GW
ipv6 route 2001:4ba0:1336::3/128 YOUR-Default-GW
ipv6 route 2001:4ba0:1336::4/128 YOUR-Default-GW
route-map to_MYLOCv4 permit 10
 match ip address prefix-list ANNOUNCEv4
 match as-path NULL-AS
route-map to MYLOCv6 permit 10
 match ip address prefix-list ANNOUNCEv6
 match as-path NULL-AS
router bgp YOUR ASN
 router-id YOUR ROUTER ID
 neighbor MYLOC4 peer group
 neighbor MYLOC4 remote-as 24961
 neighbor MYLOC4 ebgp-multihop
 neighbor MYLOC4 password 7 YOUR BGP PASSWORD
 neighbor MYLOC4 maximum-routes 0
 neighbor MYLOC6 peer group
 neighbor MYLOC6 remote-as 24961
 neighbor MYLOC6 ebgp-multihop
 neighbor MYLOC6 password 7 YOUR BGP PASSWORD
 neighbor MYLOC6 maximum-routes 0
 neighbor 62.141.40.144 peer group MYLOC4
 neighbor 62.141.40.145 peer group MYLOC4
 neighbor 62.141.40.146 peer group MYLOC4
 neighbor 62.141.40.147 peer group MYLOC4
 neighbor 2001:4ba0:1336::1 peer group MYLOC6
                                  Page 2 / 5
```

```
neighbor 2001:4ba0:1336::2 peer group MYLOC6
neighbor 2001:4ba0:1336::3 peer group MYLOC6
neighbor 2001:4ba0:1336::4 peer group MYLOC6
!
address-family ipv4
neighbor MYLOC4 prefix-list ALLOW_ALL in
neighbor MYLOC4 route-map to_MYLOCv4 out
network YOUR-PREFIX(es)
!
address-family ipv6
neighbor MYLOC6 activate
neighbor MYLOC6 prefix-list ALLOW_ALL in
neighbor MYLOC6 route-map to_MYLOCv6 out
network YOUR-PREFIX(es)
!
```

#### FreeRangeRouting Config:

```
ip route 62.141.40.144/32 YOUR-Default-GW
ip route 62.141.40.145/32 YOUR-Default-GW
ip route 62.141.40.146/32 YOUR-Default-GW
ip route 62.141.40.147/32 YOUR-Default-GW
ipv6 route 2001:4ba0:1336::1/128 YOUR-Default-GW
ipv6 route 2001:4ba0:1336::2/128 YOUR-Default-GW
ipv6 route 2001:4ba0:1336::3/128 YOUR-Default-GW
ipv6 route 2001:4ba0:1336::4/128 YOUR-Default-GW
router bgp YOUR-ASN
bgp router-id YOUR-ROUTER-ID
neighbor MYLOC peer-group
neighbor MYLOC remote-as 24961
neighbor MYLOC password YOUR-BGP-PASSWORD
neighbor MYLOC ebgp-multihop 255
neighbor MYLOC disable-connected-check
neighbor MYLOC6 peer-group
neighbor MYLOC6 remote-as 24961
neighbor MYLOC6 password YOUR-BGP-PASSWORD
neighbor MYLOC6 ebgp-multihop 255
neighbor MYLOC6 disable-connected-check
neighbor 62.141.40.144 peer-group MYLOC
neighbor 62.141.40.145 peer-group MYLOC
neighbor 62.141.40.146 peer-group MYLOC
neighbor 62.141.40.147 peer-group MYLOC
neighbor 2001:4ba0:1336::1 peer-group MYLOC6
neighbor 2001:4ba0:1336::2 peer-group MYLOC6
neighbor 2001:4ba0:1336::3 peer-group MYLOC6
neighbor 2001:4ba0:1336::4 peer-group MYLOC6
address-family ipv4 unicast
network YOUR-PREFIX(es)
neighbor MYLOC prefix-list ALLOW ALL in
neighbor MYLOC route-map to MYLOCv4 out
exit-address-family
address-family ipv6 unicast
network YOUR-PREFIX(es)
neighbor MYLOC6 activate
neighbor MYLOC6 prefix-list ALLOW ALL in
neighbor MYLOC6 route-map to MYLOCv6 out
                                 Page 3 / 5
```

```
exit-address-family
ip prefix-list ANNOUNCEv4 seg 100 deny any
ip prefix-list ANNOUNCEv4 seg 5 permit YOUR-PREFIX(es)
ip prefix-list ALLOW_ALL seq 5 permit 0.0.0.0/0 le 24
ipv6 prefix-list ANNOUNCEv6 seg 100 deny any
ipv6 prefix-list ANNOUNCEv6 seq 5 permit YOUR-PREFIX(es)
ipv6 prefix-list ALLOW ALL seg 5 permit ::/0 le 48
bgp as-path access-list AS-NULL permit ^$
route-map to MYLOCv4 permit 5
match as-path AS-NULL
match ip address prefix-list ANNOUNCEv4
route-map to MYLOCv6 permit 5
match as-path AS-NULL
match ip address prefix-list ANNOUNCEv6
Juniper Config:
protocols {
  bgp {
    group myloc-routeserver {
      type external;
      multihop {
         ttl 10;
      local-preference 200;
      log-updown;
      import from-myloc-route;
      authentication-key /* SECRET-DATA */; ## BGP Password
      export Exp2MyLoc;
      peer-as 24961;
      neighbor 62.141.40.144
      neighbor 62.141.40.145
      neighbor 62.141.40.146
      neighbor 62.141.40.147
      neighbor 2001:4ba0:1336::1
      neighbor 2001:4ba0:1336::2
      neighbor 2001:4ba0:1336::3
      neighbor 2001:4ba0:1336::4
         }
    }
}
routing-options {
  rib inet6.0 {
    static {
      /* myLoc Routeserver 1 static route */
      route 2001:4ba0:1336::1/128 next-hop /* default IPv6 GW */;
      /* myLoc Routeserver 2 static route */
      route 2001:4ba0:1336::2/128 next-hop /* default IPv6 GW */;
      /* myLoc Routeserver 3 static route */
      route 2001:4ba0:1336::3/128 next-hop /* default IPv6 GW */;
      /* myLoc Routeserver 4 static route */
      route 2001:4ba0:1336::4/128 next-hop /* default IPv6 GW */;
                                    Page 4 / 5
```

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```
}
    }
 static {
    /* myLoc Routeserver 1 static route */
    route 62.141.40.144/32 next-hop /* default IPv4 GW */;
    /* myLoc Routeserver 2 static route */
    route 62.141.40.145/32 next-hop /* default IPv4 GW */;
    /* myLoc Routeserver 3 static route */
    route 62.141.40.146/32 next-hop /* default IPv4 GW */;
    /* myLoc Routeserver 4 static route */
    route 62.141.40.147/32 next-hop /* default IPv4 GW */;
 autonomous-system YOUR_ASN;
}
null-as "()";
policy-statement from-myloc-route {
 term 1 {
    from {
       route-filter 0.0.0.0/0 upto /24;
    then accept;
 term 2 {
    then reject;
  }
}
policy-statement Exp2MyLoc {
 term 1 {
    from {
       route-filter YOUR PREFIX(es) exact;
       as-path null-as;
    then accept;
 term 2 {
    then reject;
  }
}
```

Unique solution ID: #1526 Author: Bettina Brauer

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