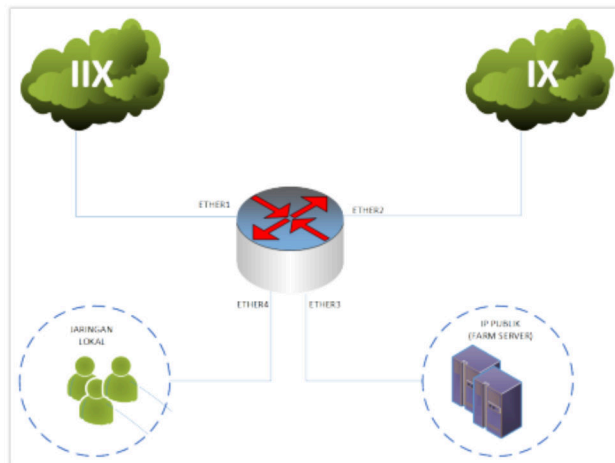


Setting Astinet Bada Bandwidth di Mikrotik



INFORMASI:

```

IP PUBLIK : 203.190.243.38/29
IP PEER (IIX): 192.168.4.26/30
IP PEER (IX) : 192.168.4.30/30
AS NUMBER : 1234
REMOTE ASN : 4321
  
```

(informasi diatas adalah dummy.hanya digunakan sebagai contoh)

pertama-tama seperti konfigurasi router pada umumnya yaitu memberikan ip address pada masing-masing interface:

```

/ip address add address=192.168.4.26/30 interface="ether1" disabled=no
/ip address add address=192.168.4.30/30 interface="ether2" disabled=no
/ip address add address=203.190.243.38/29 interface="ether3" disabled=no
/ip address add address=10.10.1.1/24 interface="ether4" disabled=no
  
```

setelah masing-masing interface sudah diberikan ip address, maka selanjutnya kita konfigurasi routing bgp nya:

```

/routing bgp instance set default as=1234
/routing bgp network add network=203.190.243.37/29
/routing bgp peer add name="DOMESTIK" remote-address=192.168.4.25 remote-as=4321
/routing bgp peer add name="GLOBAL" remote-address=192.168.4.29 remote-as=4321
  
```

jika konfigurasi berhasil, maka pada /routing bgp peer print akan ada label "E" yang artinya establish

```

Flags: X - disabled, E - established
#  INSTANCE  REMOTE-ADDRESS  REMOTE-AS
0  E default   192.168.4.25     4321
1  E default   192.168.4.29     4321
  
```

dan tabel routing sudah pada /ip route print akan muncul routing berlabel ADb yang menginisiasikan routing bgp:

```

Flags: X - disabled, A - active, D - dynamic, C - connect, S - static, r - rip, b - bgp, o - ospf, m - mme, B - blackhole, U - unreachable, P - prohibit
# DST-ADDRESS PREF-SRC GATEWAY DISTANCE
0 ADb 0.0.0.0/0 192.168.8.29 20
1 ADb 5.8.168.0/23 192.168.4.25 20
2 ADb 23.9.192.0/20 192.168.4.25 20
3 ADb 14.102.152.0/22 192.168.4.25 20
4 ADb 14.102.152.0/24 192.168.4.25 20
5 ADb 14.102.153.0/24 192.168.4.25 20
6 ADb 14.102.154.0/24 192.168.4.25 20
7 ADb 14.102.155.0/24 192.168.4.25 20
8 ADb 20.20.20.0/30 192.168.4.25 20
9 ADb 23.0.162.0/24 192.168.4.25 20
10 ADb 23.0.166.0/23 192.168.4.25 20
11 ADb 23.0.168.0/22 192.168.4.25 20
12 ADb 23.0.172.0/23 192.168.4.25 20
13 ADb 23.0.176.0/20 192.168.4.25 20
14 ADb 23.3.76.0/22 192.168.4.25 20
15 ADb 23.5.192.0/20 192.168.4.25 20
16 ADb 23.9.192.0/20 192.168.4.25 20
  
```

pada tahap ini, ip publik sudah bisa diakses dari luar. namun untuk koneksi internet pada interface lokal (ether4) harus dilakukan konfigurasi nat terlebih dahulu dengan cara :

```

/ip firewall nat add action=src-nat chain=srcnat src-address=10.10.1.0/24 to-addresses=203.190.243.38
  
```

pada konfigurasi diatas, saya menggunakan "action=src-nat" bukan "action=masquerade" dikarenakan ip publik yang di binding oleh ip lokal/privat berada pada interface yang bukan merupakan interface yang terhubung dengan internet secara langsung. jika dilakukan masquerade pada ether3(out-interface=ether3) dimana ip publik di binding, maka network lokal(10.10.1.0/24) tidak bisa terkoneksi ke internet. sedangkan jika dilakukan masquerade pada dua interface peer, hasilnya pun sama tidak dapat terkoneksi karena ip pada kedua interface tersebut adalah ip privat yang digunakan untuk bgp peer semata.

pada tahap ini, network lokal harusnya sudah bisa terkoneksi ke internet namun router sendiri tidak bisa melakukan ping maupun aktifitas jaringan keluar (internet) seolah-olah router tidak terkoneksi termasuk tidak bisa mendapatkan waktu dari ntp server. hal ini disebabkan karena jalur yang digunakan router untuk

SHARE: [Link](#) a e r i l n i z y i j u n a n k a n s e b a g a i b g p p e e r d a n b e r - i p p r i v a t , s e d a n g k a n u n t u k b i s a b e r k o m u n i k a s i k e l u a r , r o u t e r p e r l u d i k e n a l i

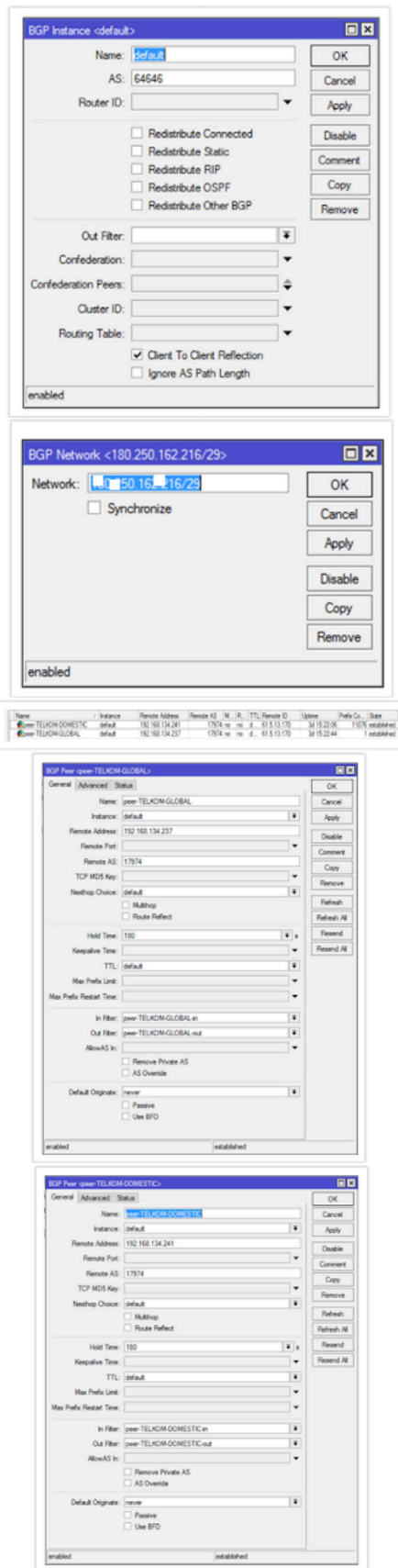
Mikrotik

menggunakan ip publik. solusinya adalah dengan men-source nat kan ip kedua interface tersebut diatas kedalam ip publik:

```
/ip firewall nat add action=src-nat chain=srcnat src-address=192.168.4.26 to-addresses=203.190.243.38  
/ip firewall nat add action=src-nat chain=srcnat src-address=192.168.4.30 to-addresses=203.190.243.38
```

dengan tambahan konfigurasi diatas, maka router kini dapat berkomunikasi ke internet dan ntp client sudah bisa berjalan normal.
demikianlah langkah-langkah konfigurasi mikrotik untuk astinet beda bandwidth. semoga bermanfaat.

Gallery Image :



Route Filter (192.250.162.216)

Matches BGP Actions BGP Actions

Chain: peer-TELKOM

Prefix: 192.250.162.216

Prefix Length: 29

Match Chain:

Protocol:

Distance:

Scope:

Target Scope:

Pref. Source:

Routing Mark:

Route Comment:

Route Tag:

Route Targets:

☐ Invert Route Targets

Site Of Origin:

☐ Invert Site Of Origin

Address Family:

OSPF Type:

☐ Invert Match

enabled

OK Cancel Apply Disable Comment Copy Remove

Route Filter <>

Matches BGP Actions BGP Actions

Chain: peer-TELKOM-GLOBAL-in

Prefix:

Prefix Length:

Match Chain:

Protocol:

Distance:

Scope:

Target Scope:

Pref. Source:

Routing Mark:

Route Comment:

Route Tag:

Route Targets:

☐ Invert Route Targets

Site Of Origin:

☐ Invert Site Of Origin

Address Family:

OSPF Type:

☐ Invert Match

enabled

OK Cancel Apply Disable Comment Copy Remove

Route Filter <>

Matches BGP Actions BGP Actions

Chain: peer-TELKOM-GLOBAL-in

Prefix:

Prefix Length:

Match Chain:

Protocol:

Distance:

Scope:

Target Scope:

Pref. Source:

Routing Mark:

Route Comment:

Route Tag:

Route Targets:

☐ Invert Route Targets

Site Of Origin:

☐ Invert Site Of Origin

Address Family:

OSPF Type:

☐ Invert Match

enabled

OK Cancel Apply Disable Comment Copy Remove

Route Filter <>

Matches BGP Actions BGP Actions

Chain: peer-TELKOM-GLOBAL-in

Prefix:

Prefix Length:

Match Chain:

Protocol:

Distance:

Scope:

Target Scope:

Pref. Source:

Routing Mark:

Route Comment:

Route Tag:

Route Targets:

☐ Invert Route Targets

Site Of Origin:

☐ Invert Site Of Origin

Address Family:

OSPF Type:

☐ Invert Match

enabled

OK Cancel Apply Disable Comment Copy Remove

Route Filter <>

Matches BGP Actions BGP Actions

Chain: peer-TELKOM-GLOBAL-in

Prefix:

Prefix Length:

Match Chain:

Protocol:

Distance:

Scope:

Target Scope:

Pref. Source:

Routing Mark:

Route Comment:

Route Tag:

Route Targets:

☐ Invert Route Targets

Site Of Origin:

☐ Invert Site Of Origin

Address Family:

OSPF Type:

☐ Invert Match

enabled

OK Cancel Apply Disable Comment Copy Remove

Route Filter <>

Matches BGP Actions BGP Actions

Chain: peer-TELKOM-GLOBAL-out

Prefix:

Prefix Length:

Match Chain: prefix-ip-out

Protocol:

Distance:

Scope:

Target Scope:

Pref. Source:

Routing Mark:

Route Comment:

Route Tag:

Route Targets:

☐ Invert Route Targets

Site Of Origin:

☐ Invert Site Of Origin

Address Family:

OSPF Type:

☐ Invert Match

enabled

OK Cancel Apply Disable Comment Copy Remove

Route Filter <>

Matches BGP Actions BGP Actions

Chain: peer-TELKOM-GLOBAL-out

Prefix:

Prefix Length:

Match Chain: prefix-ip-out

Protocol:

Distance:

Scope:

Target Scope:

Pref. Source:

Routing Mark:

Route Comment:

Route Tag:

Route Targets:

☐ Invert Route Targets

Site Of Origin:

☐ Invert Site Of Origin

Address Family:

OSPF Type:

☐ Invert Match

enabled

OK Cancel Apply Disable Comment Copy Remove