

RouterOS 7

Configurando protocolo BGP

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RouterOs 7

Este artigo tem o objetivo de tratar brevemente sobre as principais mudanças que ocorreram no BGP do sistema RouterOS v6 para RouterOS v7

1. BGP-Networking

- RouterOS v6: Na versão 6 você consegue informar os prefixos originados por seu ASN através do caminho **Routing > BGP > Networks**
- RouterOS v7: Já na versão 7 para informar os prefixos que serão originados por seu ASN, é necessário criar uma address list, contendo a respectiva quebra do ASN, segue o caminho: **IP > Firewall > Address Lists**.

2. Anúncio dos prefixos

- RouterOS v6: Na versão 6 é possível anunciar seu prefixo através da função **Synchronize**, sem que seja necessário adicionar de forma estática os prefixos que serão anunciados!
- RouterOS v7: Já na versão 7, você precisa ter os prefixos que serão anunciados instalado em sua FIB de forma manual, pois não há mais a opção de Synchronize.

3. Configuração de instância

- RouterOS v6: Na versão 6 é possível configurar uma nova instância através do seguinte caminho: **Routing > BGP > instances**
- RouterOS v7: Na versão 7 você pode configurar sua instância diretamente em um peer, ou caso prefira, também é possível criar um template e associar o mesmo no peer desejado, através do seguinte caminho: **Routing > BGP > Templates**

4. Configuração de Filtros

- RouterOS v6: Na versão 6 possuímos uma **GUI** que nos permite manipular nossos anúncios
- RouterOS v7: Na versão 7 os filtros devem ser configurados através do **terminal**, ou através de uma **GUI**, porém via linha de comando.

5. Configuração de Peer BGP

- RouterOS v6: Na versão 6 há o campo **Routing > BGP > Peers** onde possibilita estabelecer uma sessão
- RouterOS v7: Já na versão 7 há o campo **Routing > BGP > Connection**, onde permite que seja configurado uma nova sessão BGP

Exemplo sessão BGP RouterOS v7

Neste exemplo estaremos tratando sobre os seguintes assuntos:

1. Configurar Filtro BGP

- INPUT
 - Aplicar Local-Preference
- OUTPUT
 - Aplicar community
 - Aplicar AS-path

2. Configurar Conexão BGP

- Template
- Networks
- Peer BGP

Filtros BGP (Input)

```
/routing filter rule add chain=Link-Scorpion-IPv4-IN disabled=no rule="set
bgp-local-pref 900; accept;"

/routing filter rule add chain=Link-Scorpion-IPv4-IN disabled=no
rule="if(dst==0.0.0.0/0){accept;}"

/routing filter rule add chain=Link-Scorpion-IPv4-IN disabled=no
rule="if(dst in 172.20.20.0/22 && dst-len in 22-23){reject;}"

/routing filter rule add chain=Link-Scorpion-IPv4-IN disabled=no
rule="reject;"
```

Filtros BGP (Output)

Exemplos de anúncios BGP:

```
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=no
rule="if(dst == 172.16.20.0/22) {accept;}"

/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=no
rule="if(dst == 172.16.20.0/23) {accept;}"

/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=no
rule="if(dst == 172.16.22.0/23) {accept;}"

/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=no
rule="if(dst == 172.16.20.0/24) {accept;}"
```

```
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=no  
rule="if(dst == 172.16.21.0/24) {accept;}"
```

```
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=no  
rule="if(dst == 172.16.22.0/24) {accept;}"
```

```
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=no  
rule="if(dst == 172.16.23.0/24) {accept;}"
```

Através deste Exemplo obtemos o mesmo resultado:

```
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=no rule="if  
(dst in == 172.16.20.0/22 && dst-len in 22-24){accept;}"
```

Exemplo de filtro com community:

```
if(dst == 172.16.20.0/24) {set bgp-communities 777:666; accept;}
```

```
root# run show route community .*  
  
inet.0: 11 destinations, 11 routes (11 active, 0 holddown, 0 hidden)  
+ = Active Route, - = Last Active, * = Both  
  
172.16.20.0/24    *[BGP/170] 00:21:32, localpref 100  
                 AS path: 333 I, validation-state: unverified  
                 > to 172.25.20.2 via ge-0/0/1.0  
  
[edit]  
root# run show route receive-protocol bgp 172.25.20.2 detail  
  
inet.0: 11 destinations, 11 routes (11 active, 0 holddown, 0 hidden)  
* 172.16.20.0/24 (1 entry, 1 announced)  
  Accepted  
  Nexthop: 172.25.20.2  
  AS path: 333 I  
  Communities: 777:666  
  
* 172.16.21.0/24 (1 entry, 1 announced)  
  Accepted  
  Nexthop: 172.25.20.2  
  AS path: 333 I
```

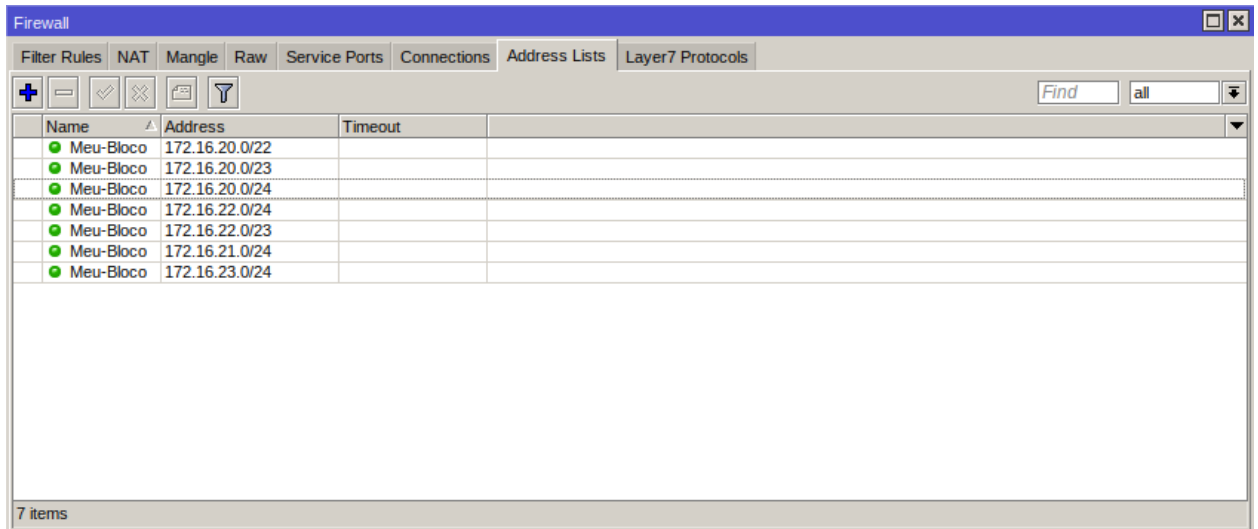
Exemplo aplicando prepend (AS-Path) com mikrotik:

```
if(dst == 172.16.21.0/24) {set bgp-path-prepend 3; accept;}
```

```
root# run show route receive-protocol bgp 172.25.20.2 detail
inet.0: 11 destinations, 11 routes (11 active, 0 holddown, 0 hidden)
* 172.16.20.0/24 (1 entry, 1 announced)
  Accepted
  Nexthop: 172.25.20.2
  AS path: 333 I
  Communities: 777:666
* 172.16.21.0/24 (1 entry, 1 announced)
  Accepted
  Nexthop: 172.25.20.2
  AS path: 333 333 333 I
```

Configurando Peer BGP

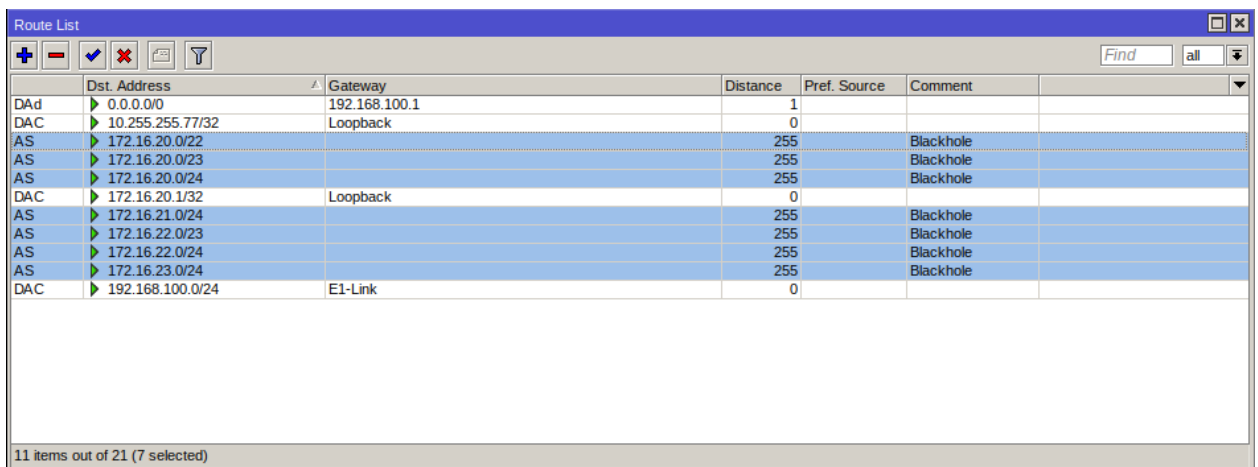
1. Networks



| Name | Address | Timeout |
|-----------|----------------|---------|
| Meu-Bloco | 172.16.20.0/22 | |
| Meu-Bloco | 172.16.20.0/23 | |
| Meu-Bloco | 172.16.20.0/24 | |
| Meu-Bloco | 172.16.22.0/23 | |
| Meu-Bloco | 172.16.21.0/24 | |
| Meu-Bloco | 172.16.23.0/24 | |

7 items

2. Blackhole



| Dst. Address | Gateway | Distance | Pref. Source | Comment |
|------------------|---------------|----------|--------------|-----------|
| 0.0.0.0/0 | 192.168.100.1 | 1 | | |
| 10.255.255.77/32 | Loopback | 0 | | |
| 172.16.20.0/22 | | 255 | | Blackhole |
| 172.16.20.0/23 | | 255 | | Blackhole |
| 172.16.20.0/24 | | 255 | | Blackhole |
| 172.16.20.1/32 | Loopback | 0 | | |
| 172.16.21.0/24 | | 255 | | Blackhole |
| 172.16.22.0/23 | | 255 | | Blackhole |
| 172.16.22.0/24 | | 255 | | Blackhole |
| 172.16.23.0/24 | | 255 | | Blackhole |
| 192.168.100.0/24 | E1-Link | 0 | | |

11 items out of 21 (7 selected)

3. Peer-BGP

BGP Connection <Link-Scorpion-IPv4>

General Extra Attributes Filter

Name: Link-Scorpion-IPv4

Template: default

AS: 333

AFI: ☒ ip ☐ ipv6 ☐ l2vpn ☐ vpnv4 ☐ l2vpn cisco

Router ID: 172.16.20.1

Remote Address: 172.20.20.1/32

Remote Port: 179

Remote AS: 777

Remote Allow AS:

Local Address: 172.20.20.2

Local Port:

Local Role: ebgp

TCP MD5 Key:

Multihop:

Tx TTL:

Rx Min TTL:

Connect: ☒

Listen: ☒

OK Cancel Apply Disable Comment Copy Remove

enabled

BGP Connection <Link-Scorpion-IPv4>

General Extra Attributes Filter

Input Filter: Link-Scorpion-IPv4-OUT

Input Accept NLRI:

Input Accept Communities:

Input Accept Ext Communities:

Input Accept Large Communities:

Input Accept Unknown:

Output Filter: Link-Scorpion-IPv4-OUT

Output Selection Policy:

Output Network: Meu-Bloco

OK

Cancel

Apply

Disable

Comment

Copy

Remove

enabled

Tabela de comandos úteis

| Comando | Descrição |
|--------------------------------------|--|
| set bgp-med 15 | Alterar o peso das rotas para 15 |
| set bgp-local-pref 300 | Alterar a preferência das rotas para 300 |
| set bgp-ext-communities rt:327824:20 | Inserir uma community estendida em um ou mais prefixos |
| set bgp-path-prepend 3 | Adicionar seu AS em uma rota BGP |
| set bgp-communities 777:666 | Inserir uma community em um ou mais prefixos |

Operadores Lógico

| Comando | Descrição |
|--------------|-----------|
| "&&" , "and" | E |
| " " , "or" | Ou |
| "!" , "not" | Não |
| "in" | Em |

Operadores Relacionais

| Comando | Descrição |
|---------|----------------|
| "<" | Menor que |
| ">" | Maior que |
| "==" | Igual |
| "<=" | Menor ou igual |
| ">=" | Maior ou igual |
| "!=" | Diferente de |

Fatos relevantes RouterOS 7

Para realizar todos os testes referenciados ao protocolo BGP foi utilizado a versão 7.6 virtualizada do sistema RouterOS.

- BGP received routes:

Na versão 7.6 do routerOS, mesmo quando é negado os prefixos que serão aprendidos via eBGP, os mesmos continuam sendo listados na tabela de rotas com o status de inválido, segue o exemplo:

| Route Filters | | | | | |
|---------------|------------------------|--|---------------|-------------------|---------------------|
| Rule | Select Rule | Num Set | Community Set | Community Ext Set | Community Large Set |
| # | Chain | Rule | | | |
| 0 | Link-Scorpion-IPv4-IN | if (dst==0.0.0.0/0)(accept) | | | |
| 1 | Link-Scorpion-IPv4-IN | reject | | | |
| 2 | Link-Scorpion-IPv4-OUT | if (dst == 172.16.20.0/22 && dst-len in 22-24)(accept) | | | |
| 3 | Link-Scorpion-IPv4-OUT | if (dst == 172.16.21.0/24) (accept) | | | |
| 4 | Link-Scorpion-IPv4-OUT | reject | | | |

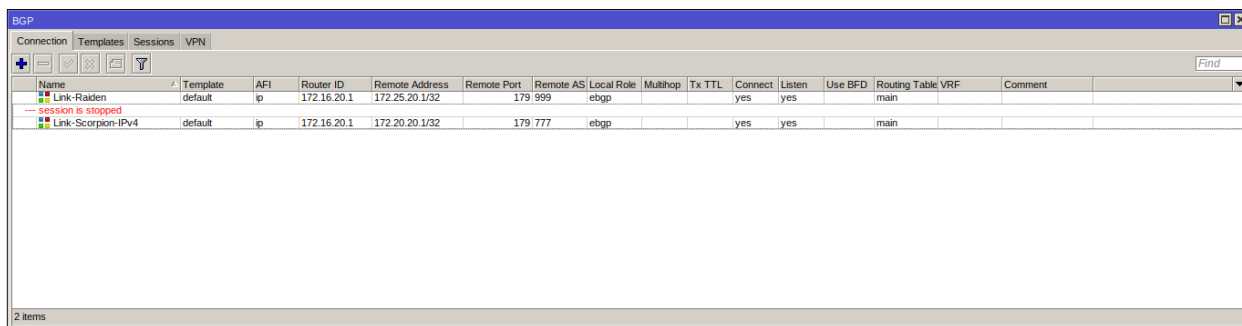
| Route List | | | | | |
|------------|------------------|----------------------------|----------|--------------|-----------|
| | Dst. Address | Gateway | Distance | Pref. Source | Comment |
| DAB | 0.0.0.0/0 | 172.20.20.1 | 20 | | |
| DAC | 10.255.255.77/32 | Loopback | 0 | | |
| AS | 172.16.20.0/22 | | 255 | | Blackhole |
| AS | 172.16.20.0/23 | | 255 | | Blackhole |
| AS | 172.16.20.0/24 | | 255 | | Blackhole |
| DAC | 172.16.20.1/32 | Loopback | 0 | | |
| AS | 172.16.21.0/24 | | 255 | | Blackhole |
| AS | 172.16.22.0/23 | | 255 | | Blackhole |
| AS | 172.16.22.0/24 | | 255 | | Blackhole |
| AS | 172.16.23.0/24 | | 255 | | Blackhole |
| DFB | 172.20.20.0/22 | 172.20.20.1 | 20 | | |
| DFB | 172.20.20.0/23 | 172.20.20.1 | 20 | | |
| DFB | 172.20.20.0/24 | 172.20.20.1 | 20 | | |
| DAC | 172.20.20.0/30 | vien366-Link-Scorpion-IPv4 | 0 | | |
| DFB | 172.20.21.0/24 | 172.20.20.1 | 20 | | |
| DFB | 172.20.22.0/23 | 172.20.20.1 | 20 | | |
| DFB | 172.20.22.0/24 | 172.20.20.1 | 20 | | |
| DFB | 172.20.23.0/24 | 172.20.20.1 | 20 | | |

18 items out of 30 (1 selected)

- BGP-Sessions:

No presente momento, caso seja utilizado a função de "refresh" ou "resend" para atualizar a tabela de rotas aprendidas via eBGP, o peer referenciado mudará o status para down e permanecerá neste enquanto o equipamento não for rebootado! Através dos testes realizados em laboratório com equipamentos virtualizados mesmo após desabilitar e habilitar a sessão BGP ou até mesmo alterando o status da interface, o peer não retornou para a condição de estabelecida!

Sendo assim, é recomendado **NÃO** utilizar este recurso da mikrotik.



| Name | Template | AFI | Router ID | Remote Address | Remote Port | Remote AS | Local Role | Multihop | Tx TTL | Connect | Listen | Use BFD | Routing Table | VRF | Comment |
|------------------------|----------|-----|-------------|----------------|-------------|-----------|------------|----------|--------|---------|--------|---------|---------------|-----|---------|
| Link-Raiden | default | ip | 172.16.20.1 | 172.25.20.1/32 | 179 999 | ebgp | | | | yes | yes | | main | | |
| --- session is stopped | | | | | | | | | | | | | | | |
| Link-Scorpion-IPv4 | default | ip | 172.16.20.1 | 172.20.20.1/32 | 179 777 | ebgp | | | | yes | yes | | main | | |

Export Operadora Scorpion

```
service timestamps debug datetime msec  
service timestamps log datetime msec  
no service password-encryption  
!  
hostname Borda-Scorpion  
!  
boot-start-marker  
boot-end-marker  
!  
!  
!  
no aaa new-model  
clock timezone EET 2 0  
mmi polling-interval 60  
no mmi auto-configure  
no mmi pvc  
mmi snmp-timeout 180  
!  
!  
!  
!  
!  
!  
!  
!  
  
!  
!  
!  
!  
  
no ip domain lookup  
ip cef  
no ipv6 cef  
!  
multilink bundle-name authenticated  
!  
!
```

```
!  
!  
!  
!  
!  
!  
!  
redundancy  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
interface Loopback1  
  ip address 172.20.21.1 255.255.255.255  
!  
interface Ethernet0/0  
  ip address dhcp  
!  
interface Ethernet0/1  
  no ip address  
!  
interface Ethernet0/1.366  
  description Cliente-Sub-Zero  
  encapsulation dot1Q 366  
  ip address 172.20.20.1 255.255.255.252  
!  
interface Ethernet0/2  
  no ip address  
  shutdown  
!
```

```
interface Ethernet0/3
  no ip address
  shutdown
!
router bgp 777
  bgp router-id 172.20.21.1
  bgp log-neighbor-changes
  neighbor 172.20.20.2 remote-as 333
  !
  address-family ipv4
    network 172.20.20.0 mask 255.255.252.0
    network 172.20.20.0 mask 255.255.254.0
    network 172.20.20.0 mask 255.255.255.0
    network 172.20.21.0 mask 255.255.255.0
    network 172.20.22.0 mask 255.255.254.0
    network 172.20.22.0 mask 255.255.255.0
    network 172.20.23.0 mask 255.255.255.0
    neighbor 172.20.20.2 activate
    neighbor 172.20.20.2 soft-reconfiguration inbound
    neighbor 172.20.20.2 route-map Cliente-Sub-Zero-IN in
    neighbor 172.20.20.2 route-map Cliente-Sub-Zero-OUT out
  exit-address-family
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
ip route 172.20.20.0 255.255.252.0 Null0
ip route 172.20.20.0 255.255.254.0 Null0
ip route 172.20.20.0 255.255.255.0 Null0
ip route 172.20.21.0 255.255.255.0 Null0
ip route 172.20.22.0 255.255.254.0 Null0
ip route 172.20.22.0 255.255.255.0 Null0
ip route 172.20.23.0 255.255.255.0 Null0
!
!
ip prefix-list Meu-Bloco seq 10 permit 172.20.20.0/22
ip prefix-list Meu-Bloco seq 20 permit 172.20.20.0/23
ip prefix-list Meu-Bloco seq 30 permit 172.20.22.0/23
ip prefix-list Meu-Bloco seq 40 permit 172.20.20.0/24
```



```
ip prefix-list Meu-Bloco seq 50 permit 172.20.21.0/24
ip prefix-list Meu-Bloco seq 60 permit 172.20.22.0/24
ip prefix-list Meu-Bloco seq 70 permit 172.20.23.0/24
!
route-map Cliente-Sub-Zero-IN permit 10
!
route-map Cliente-Sub-Zero-OUT permit 10
  match ip address prefix-list Meu-Bloco
!
!
!
control-plane
!
!
!
!
!
!
!
!
!
line con 0
  logging synchronous
line aux 0
line vty 0 4
  login
  transport input none
!
!
end
```

Export Operadora Raiden

```
## Last commit: 2023-01-09 19:18:41 UTC by root
version 14.1R4.8;
system {
    root-authentication {
        encrypted-password "$1$tyuCuQ4S$s/e0e/ZISPOvAuH2EACSw0"; ##
    SECRET-DATA
    }
    syslog {
        user * {
            any emergency;
        }
        file messages {
            any notice;
            authorization info;
        }
        file interactive-commands {
            interactive-commands any;
        }
    }
}
interfaces {
    ge-0/0/1 {
        description Cliente-Sub-Zero;
        unit 0 {
            family inet {
                address 172.25.20.1/30;
            }
        }
    }
}
routing-options {
    static {
        route 172.25.20.0/22 discard;
        route 172.25.20.0/23 discard;
        route 172.25.22.0/23 discard;
        route 172.25.20.0/24 discard;
        route 172.25.21.0/24 discard;
        route 172.25.22.0/24 discard;
```

```

        route 172.25.23.0/24 discard;
    }
    autonomous-system 999;
}
protocols {
    bgp {
        group Cliente-Sub-Zero {
            type external;
            description Cliente-Sub-Zero;
            import Cliente-Sub-Zero-IN;
            export Cliente-Sub-Zero-OUT;
            peer-as 333;
            neighbor 172.25.20.2;
        }
    }
}
policy-options {
    policy-statement Cliente-Sub-Zero-IN {
        term 10 {
            then accept;
        }
    }
    policy-statement Cliente-Sub-Zero-OUT {
        term 10 {
            from {
                route-filter 172.25.20.0/22 exact;
            }
            then accept;
        }
        term 20 {
            from {
                route-filter 172.25.20.0/23 exact;
            }
            then accept;
        }
        term 30 {
            from {
                route-filter 172.25.22.0/23 exact;
            }
            then accept;
        }
    }
}

```

```
term 40 {  
    from {  
        route-filter 172.25.21.0/24 exact;  
    }  
    then accept;  
}  
term 50 {  
    from {  
        route-filter 172.25.22.0/24 exact;  
    }  
    then accept;  
}  
term 60 {  
    then reject;  
}  
}  
}
```

Export Cliente-Sub-Zero

```
# jan/09/2023 21:05:12 by RouterOS 7.6
# software id =
#
/interface bridge add name=Loopback
/interface ethernet set [ find default-name=ether1 ] name=E1-Link-Scorpion
/interface ethernet set [ find default-name=ether2 ] name=E2-
/interface ethernet set [ find default-name=ether3 ] name=E3-Link-Raiden
/interface ethernet set [ find default-name=ether4 ] name=E4-
/interface vlan add interface=E1-Link-Scorpion
name=vlan366-Link-Scorpion-IPv4 vlan-id=366
/interface wireless security-profiles set [ find default=yes ]
supplicant-identity=MikroTik
/port set 0 name=serial0
/routing bgp template set default as=333 disabled=no router-id=172.16.20.1
routing-table=main
/ip address add address=10.255.255.77 interface=Loopback
network=10.255.255.77
/ip address add address=172.16.20.1 interface=Loopback network=172.16.20.1
/ip address add address=172.20.20.2/30 interface=vlan366-Link-Scorpion-IPv4
network=172.20.20.0
/ip address add address=172.25.20.2/30 interface=E3-Link-Raiden
network=172.25.20.0
/ip dhcp-client add interface=E1-Link-Scorpion
/ip firewall address-list add address=172.16.20.0/22 list=Meu-Bloco
/ip firewall address-list add address=172.16.20.0/23 list=Meu-Bloco
/ip firewall address-list add address=172.16.20.0/24 list=Meu-Bloco
/ip firewall address-list add address=172.16.22.0/24 list=Meu-Bloco
/ip firewall address-list add address=172.16.22.0/23 list=Meu-Bloco
/ip firewall address-list add address=172.16.21.0/24 list=Meu-Bloco
/ip firewall address-list add address=172.16.23.0/24 list=Meu-Bloco
/ip proxy access add dst-address=172.18.18.1 dst-host=google.com/xxxt
/ip route add blackhole comment=Blackhole disabled=no distance=255
dst-address=172.16.20.0/22 gateway="" pref-src="" routing-table=main
scope=30 suppress-hw-offload=no target-scope=10
/ip route add blackhole comment=Blackhole disabled=no distance=255
dst-address=172.16.20.0/23 gateway="" pref-src="" routing-table=main
scope=30 suppress-hw-offload=no target-scope=10
/ip route add blackhole comment=Blackhole disabled=no distance=255
```

```

dst-address=172.16.20.0/24 gateway="" pref-src="" routing-table=main
scope=30 suppress-hw-offload=no target-scope=10
/ip route add blackhole comment=Blackhole disabled=no distance=255
dst-address=172.16.21.0/24 gateway="" pref-src="" routing-table=main
scope=30 suppress-hw-offload=no target-scope=10
/ip route add blackhole comment=Blackhole disabled=no distance=255
dst-address=172.16.22.0/24 gateway="" pref-src="" routing-table=main
scope=30 suppress-hw-offload=no target-scope=10
/ip route add blackhole comment=Blackhole disabled=no distance=255
dst-address=172.16.22.0/23 gateway="" pref-src="" routing-table=main
scope=30 suppress-hw-offload=no target-scope=10
/ip route add blackhole comment=Blackhole disabled=no distance=255
dst-address=172.16.23.0/24 gateway="" pref-src="" routing-table=main
scope=30 suppress-hw-offload=no target-scope=10
/routing bgp connection add address-families=ip as=333
cisco-vpls-nlri-len-fmt=auto-bits connect=yes disabled=no
input.filter=Link-Scorpion-IPv4-IN listen=yes local.address=172.20.20.2
.role=ebgp name=Link-Scorpion-IPv4 nexthop-choice=force-self output
.filter-chain=Link-Scorpion-IPv4-OUT .network=Meu-Bloco
.no-client-to-client-reflection=yes remote.address=172.20.20.1/32 .as=777
.port=179 router-id=172.16.20.1 routing-table=main templates=default
/routing bgp connection add address-families=ip as=333
cisco-vpls-nlri-len-fmt=auto-bits connect=yes disabled=no
input.filter=Link-Raiden-IPv4-IN listen=yes local.address=172.25.20.2
.role=ebgp name=Link-Raiden nexthop-choice=force-self output.filter-c
hain=Link-Raiden-IPv4-OUT .network=Meu-Bloco
.no-client-to-client-reflection=yes remote.address=172.25.20.1/32 .as=999
.port=179 router-id=172.16.20.1 routing-table=main templates=default
/routing filter rule add chain=Link-Scorpion-IPv4-IN disabled=no
rule="if(dst==0.0.0.0/0){accept;}"
/routing filter rule add chain=Link-Scorpion-IPv4-IN disabled=no
rule="reject;"
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=yes
rule="if(dst == 172.16.20.0/22) {accept;}\r\
    \nif(dst == 172.16.20.0/23) {accept;}\r\
    \nif(dst == 172.16.22.0/23) {accept;}\r\
    \nif(dst == 172.16.20.0/24) {set bgp-communities 777:666,777:123;
accept;}\r\
    \nif(dst == 172.16.21.0/24) {accept;}\r\
    \nif(dst == 172.16.22.0/24) {accept;}\r\
    \nreject;\r\

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\nif(dst == 172.16.23.0/24) {accept;}\r\
\n"
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=yes
rule="if(dst == 172.16.20.0/22) {accept;}"
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=yes
rule="if(dst == 172.16.20.0/23) {accept;}"
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=yes
rule="if(dst == 172.16.22.0/23) {accept;}"
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=no
rule="if(dst == 172.16.20.0/24) {set bgp-communities 777:666; accept;}"
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=yes
rule="if(dst == 172.16.21.0/24) {accept;}"
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=yes
rule="if(dst == 172.16.22.0/24) {accept;}"
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=yes
rule="if(dst == 172.16.23.0/24) {accept;}"
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=yes rule="if
(dst in 172.16.20.0/22 && dst-len in 22-24){accept;}"
/routing filter rule add chain=Link-Scorpion-IPv4-OUT disabled=no
rule="reject;"
/routing filter rule add chain=Link-Raiden-IPv4-IN disabled=no
rule="reject;"
/routing filter rule add chain=Link-Raiden-IPv4-OUT disabled=no
rule="if(dst == 172.16.20.0/24) {set bgp-communities 777:666; accept;}\r\
\n\r\
\nif(dst == 172.16.21.0/24) {set bgp-path-prepend 3; accept;}"

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