São Paulo, April 01, 2020

Changing the IPv4 Address Block of MLPA Vlan

IX.br - CE (Fortaleza)

<u>About the Need</u>

1. The ATMv4 Domain of IX.br in Fortaleza currently has 256 IPv4 addresses available for allocation, that is, a /24. Of this total, 15 IPs are used for Router Servers / Simet-IX and network validations. The remainder approximately 240 IPs addresses are allocated to participants.

<u>Changing the IP Addressing</u>

1. We requested the Registro.br number team for a new block for the IX.br in Fortaleza, we were allocated the following 22.
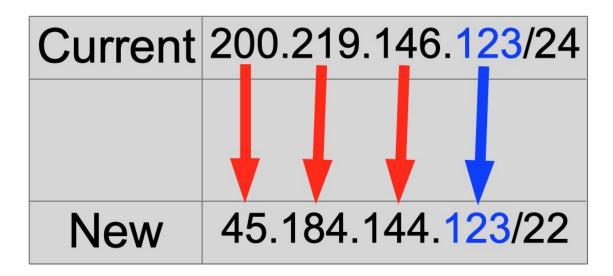
45.184.144.0/22

2. Alteration consists of changing the IP addressing, preserving the last octet, as shown below:

Current	200.219.146.123/24
New	45.184.144.123/22

Router Servers

These are the new addresses allocated for the RSs and LG:

Router Server-1: 45.184.144.253/22

Router Server-2: 45.184.144.254/22

Looking Glass: 45.184.144.252/22

Migration period for the new IPv4 block

    1. The process will be divided into 2 steps, in the period of 3 weeks.

      Start: 01 / April / 2020
      End: 22 / April / 2020

Steps

    Step 1: 01 / Abril / 2020

Responsibility of IX.br:

    - Deactivation of the current Router Server 1 (200.219.146.253/24)

    - Activation of two new Router Servers, already with the new network:

        RS1: 45.184.144.253/22

        RS2: 45.184. 144.254/22

Participant's Responsibility:

    - Add the new IPv4 address, as a secondary address in the same interface as the current address.

    - Add the two new *neighbors* in their BGP configurations while maintaining the same routing policies.

registro.br   cert.br   cetic.br   ceptro.br   ceweb.br   ix.br   W3C
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The important thing in this period transition is to maintain the two addresses configured on the network interface and also the BGP neighborhoods, so that there is no loss of connectivity with the participants who have not yet made the change.

Step 2: 22 / April / 2020

IX.br's responsibility:

- Deactivation of the old Router Server 2 (200.219.146.254/24)

Participant's responsibility:

- Removal of the old IP, block 200.219.146.0/24, from the network interface and release of the resource.

- Removal of all *neighbors* referring to the old network (200.219.146.0/24).

Considerations

- Also check the policies, firewall considering the new network.

- If applicable, the bilateral sessions that are established by VLAN the MLPA-v4 also must be migrated.