

FRRouting and config initialization

Initialize FRR and config in the new version (Above 202012.3 and including 202111 branch)

Since 202012.3, Edgecore enhance Default configuration file with the command line, so users don't modify the config_db.json directly. (please refer to this article.)

After doing the reset to default with the command, the "docker_routing_config_mode" will be the "split", and here's the way to check it.

```
admin@SW1:~$ sudo show runningconfiguration all | jq .DEVICE_METADATA
{
  "localhost": {
    "buffer_model": "traditional",
    "default_bgp_status": "up",
    "default_pfcwd_status": "disable",
    "docker_routing_config_mode": "split",
    "frr_mgmt_framework_config": "true",
    "hostname": "SW1",
    "hwsku": "Accton-AS7326-56X",
    "mac": "04:f8:f8:6a:f6:91",
    "platform": "x86_64-accton_as7326_56x-r0",
    "synchronous_mode": "enable",
    "type": "LeafRouter"
  }
}
```

Initialize FRR and config (for Restriction #1)

Step 1: Edit /etc/sonic/config_db.json

Add // to comment out this object "BGP_NEIGHBOR": { }

Add "docker_routing_config_mode": "split" to "DEVICE_METADATA" as shown below

Remove the surplus setting "bgp_asn": "65100" from "DEVICE_METADATA", since "split" mode won't read BGP setting from /etc/sonic/config_db.json.

```
{
  "//BGP_NEIGHBOR": {
    "10.0.0.1": {
      "asn": "65200",
      "holddtime": "180",
      "keepalive": "60",
      "local_addr": "10.0.0.0",
      "name": "ARISTA01T2",
      "nhopself": 0,
      "rrclient": 0
    },
    omitted...
  },
  omitted...
  "DEVICE_METADATA": {
    "localhost": {
      "bgp_asn": "65100",
      "buffer_model": "traditional",
      "default_bgp_status": "up",
      "default_pfcwd_status": "disable",
      "hostname": "sonic",
      "hwsku": "Accton-AS7326-56X",
      "mac": "04:f8:f8:6b:3e:91",
      "platform": "x86_64-accton_as7326_56x-r0",

```

```

        "type": "LeafRouter",
        "docker_routing_config_mode": "split"
    },
    },
    omitted...
}

```

Step 2. Reload config or power cycle the switch

```
admin@sonic:~$ sudo config reload -y
```

Step 3. Verify the result

Check current configuration

```
admin@sonic:~$ show runningconfiguration bgp
```

Building configuration...

Current configuration:

```

!
frr version 8.0
frr defaults traditional
hostname sonic
zebra nexthop proto only
service integrated-vtysh-config
!
route-map RM_SET_SRC permit 10
set src 10.1.0.1
!
ip protocol bgp route-map RM_SET_SRC
!
line vty
!
end

```

Caution: If the result is a failure, please return to Step 1 and repeat these steps.

How to reset FRRouting configurations.

Step 1. Delete the FRR configuration file.

```
admin@sonic:~$ sudo rm -rf /etc/sonic/frr/frr.conf
```

Step 2. Reboot device. After rebooting the device, the default configuration file will be generated automatically.

```
admin@sonic:~$ sudo reboot
```