

Содержание

- Load balancer 3
 - Description and cases* 3
 - Case. Balancer on traffic mirror 3
 - Setup and management* 4
 - Information teams* 5

Load balancer

Description and cases

L2 traffic balancer mode. This enhancement allows the SSG to be used as a traffic balancer based on IP addresses owned by the AS and defined as `local` in `asnum.dscp`. DPI functionality does not work in this mode.

A maglev algorithm with fixed hash table size is used for traffic balancing. Determination of the output interface by the following algorithm:

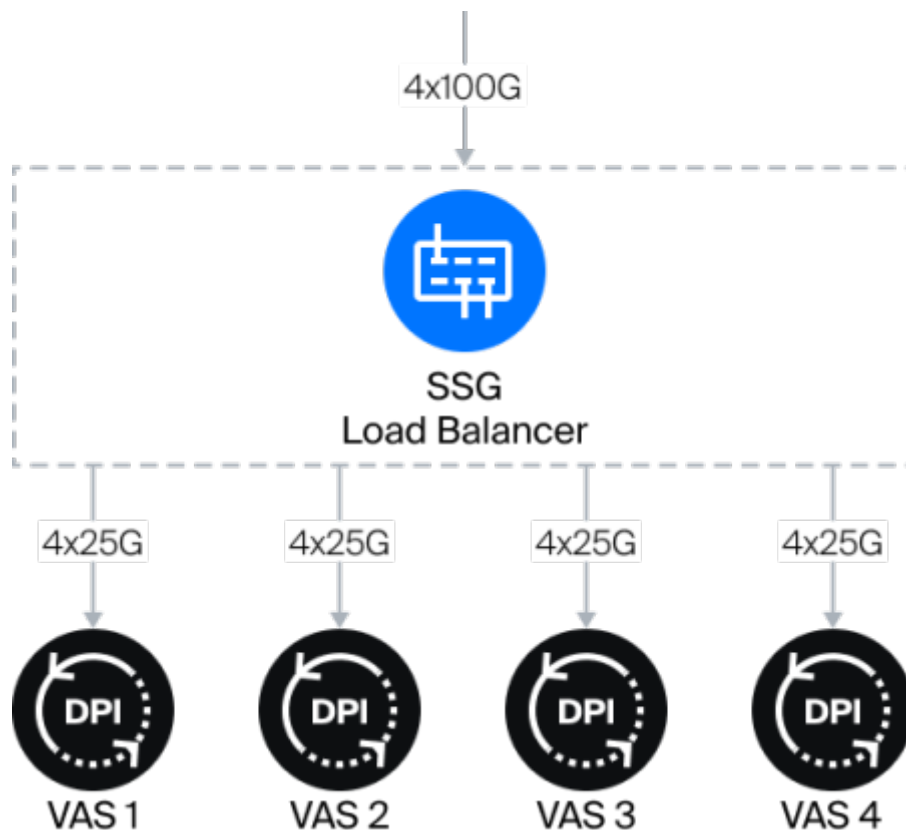
- 1 — if src and dst ip both local, then hash is calculated based on these two addresses;
- 2 — if only src ip local, then hash is calculated based on src ip;
- 3 — if only dst ip local, hash is calculated on the basis of dst ip;
- 4 — hash is calculated on the basis of src and dst ip.

Based on the calculated hash value, the output interface is determined by determining the index of the hash table cell containing the interface index from the array of output interfaces. The value from the array of output interfaces is substituted into the current context and `pcs_accept` is returned.

Case. Balancer on traffic mirror

Suppose a 400GB traffic mirror needs to be evenly split between four VAS platforms (Value-Added Services) performing traffic analysis, detections, etc.

In this case, SCAT will allow to balance traffic and distribute it evenly — i.e. realize the function of a balancer.



Setup and management

The following settings are required for correct operation:

- Definition of an autonomous system with IP addresses that are used by subscribers. [Description](#)
- Marking a given autonomous system as local. [Description](#)
- Define input and output interfaces in the configuration file. Input interfaces are defined in the `in_dev` parameter, and output interfaces in `out_dev`. Interfaces do not form pairs and constructions of the form are allowed:

```
in_dev=05-00.0:05-00.1:05-00.2:05-00.3:0b-00.0:0b-00.1:0b-00.2:0b-00.3
out_dev=08-00.0:08-00.1:08-00.2:08-00.3
```

Или

```
in_dev=05-00.0
out_dev=out_dev=08-00.0:08-00.1:08-00.2:08-00.3
```

- Enable balancing mode: `enable_l2_lb=true`

Input parameters:

`enable_l2_lb=false|true` - enable traffic balancer

`lb_hash_out_dev_type = 0|1` - by which value to initialize hash table:

0 — use the internal index of the output interface

1 — use interface name from `[in|out]_dev`

The following types can be used as `dpsdk_engine`: 0 (default), 1, and 2.

Information teams

- `subs prop show active` — dump L2 properties of all active (non-expired) subscribers