

## SFLOW (sampled flow)

SFLOW(sampled flow), Network packet information is acquired by sampling so that the network administrator can understand the operation status of the network.

Topology:

mceclip0.png

Procedure:

Step 1: Make sure the COPP rule is correct in the SWSS container.

Access the SWSS container.

```
admin@sonic:~$ docker exec -it swss bash
root@sonic:/#
```

Checking the copp.json.j2, this file is at /usr/share/sonic/templates.

```
[
omitted...
{
    "COPP_TABLE:trap.group.sflow": {
        "trap_ids": "sample_packet",
        "trap_action": "trap",
        "trap_priority": "1",
        "queue": "2",
        "meter_type": "packets",
        "mode": "sr_tcm",
        "cir": "1000",
        "cbs": "1000",
        "red_action": "drop",
        "genetlink_name": "psample",
        "genetlink_mcgrp_name": "packets"
    },
    "OP": "SET"
}
]
```

Caution:

If you modify the copp.json.j2, please reboot the switch to activate it.  
After 202006.1, please skip this step.

Step 2: Configure the IP address on the Ethernet0 ( refer to Management IP address)

Step 3: Enable the sFlow.

```
admin@sonic:~$ sudo config sflow enable
Step 4: Add the sFlow collector.
```

```
admin@sonic:~$ sudo config sflow collector add test 192.168.2.2
```

Result

```
admin@sonic:~$ show sflow
```

sFlow Global Information:

sFlow Admin State:	up
sFlow Polling Interval:	default
sFlow AgentID:	default

1 Collectors configured:

Name: test	IP addr: 192.168.100.2	UDP port: 6343	VRF: default
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```
admin@sonic:~$ show sflow interface
```

sFlow interface configurations

Interface	Admin State	Sampling Rate
Ethernet0	up	2500
omitted...		
Ethernet76	up	10000

#### Appendix:

To specify the VRF of the collector, please add "--vrf" option

```
admin@sonic:~$ sudo config sflow collector add test 188.188.8.91 --vrf mgmt
```

```
admin@sonic:~$ show sflow
```

#### sFlow Global Information:

```
sFlow Admin State: up
sFlow Polling Interval: default
sFlow AgentID: default
```

#### 1 Collectors configured:

```
Name: test IP addr: 188.188.8.91 UDP port: 6343 VRF: mgmt
```

#### Note:

1. If the mgmt VRF doesn't be created yet, the default VRF will be used to connect to server.

2. Only support with default VRF and mgmt VRF.