How to configure a Cisco ISR router to send Netflow v5 data to VOSS Insights arbitrator

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Contents

Abstract

This document provides the procedure to configure a Cisco ISR router to send Netflow data to VOSS Insights arbitrator using v5 format.

Assumptions

This document assumes that the following configuration will be applied on a Cisco ISR router with two interfaces:

- GigabitEthernet0/0/0
- GigabitEthernet0/0/1

For the purposes of this guide, the following software specifications are assumed:

```
isr4300-3977#show version
Cisco IOS XE Software, Version 03.16.04b.S - Extended Support Release
Cisco IOS Software, ISR Software (X86_64_LINUX_IOSD-UNIVERSALK9-M),
Version
15.5(3)S4b, RELEASE SOFTWARE (fc1)
```

VOSS Insights Team recommends that Netflow is configured and enabled in the "ingress" direction for all interfaces on a Netflow source device.

Configuration

The following sample configuration can be used as a template for Netflow v5:

ENABLE SNMP INDEX PERSISTENCE

```
isr4300-3977#configure terminal
```

Enter configuration commands, one per line. End with **CTRL-Z**.

```
isr4300-3977(config)#snmp-server ifindex persist
isr4300-3977(config)#
```

NETFLOW CONFIGURATION

```
isr4300-3977(config)#flow exporter lxexporter-1

destination [VOSS Insights arbitrator IP Address]

export-protocol netflow-v5

transport udp [Netflow Collector Port]

exit

isr4300-3977(config)#flow monitor lx-flowmonitor-1
```

```
record netflow ipv4 original-input

exporter lxexporter-1

exit

isr4300-3977(config)#ip cef distributed

isr4300-3977(config)#interface GigabitEthernet0/0/0

ip flow monitor lx-flowmonitor-1 input

exit

isr4300-3977(config)#interface GigabitEthernet0/0/0

ip flow monitor lx-flowmonitor-1 output

exit

isr4300-3977(config)#exit

#copy run start
```

Note: Please note that VOSS Insights arbitrator uses UDP 9996 to receive Netflow v5 by default.