No NetFlow traffic captured

Problem

NetFlow export is started on the devices but there is no NetFlow traffic in the application.

Solution

NetFlow traffic may not show due to several reasons:

- · Firewall and access lists are blocking netflow packets
- Collection port is not opened
- Collection port has already being used by a different application
- Bad netflow exporter configuration
- Aggregation filter is filtering out the traffic
- License has expired
- NetFlow packets are being dropped

To determine the cause and solution please do the following:

General steps:

Go to System tab in the application

- a. check the Packets chart (netflow packets that the application collected)
 - i. f there are no UDP packets received go to steps 1 to 2.
 - ii. if there are dropped packets restart Tomcat service for temporary quick fix and go to step 1c to resolve the core problem
- b. check Flows chart:
 - i. if there are no flows this means that no netflow data is received by the application, go to steps 1 to 2.
 - ii. if all flows are unlicensed, your license is invalid or expired contact us for resolving this
 - iii. if all flows are filtered, go to blocked URL > Settings > NetFlow Settings > Aggregation filtering and remove the filter rejecting all flow
 - iv. if all flows are dropped, try restarting the tomcat service and contact us if the problem persists
- c. check Performance chart:
 - i. if Heap utilisation is high try adding more RAM to Tomcat and PostgreSQL services (consult Post installation steps)
 - ii. if DB write time is high try adding more CPU cores to the server
 - iii. if you are not sure what to do contact us at support@netvizura.com

Linux:



1. Check if NetFlow data is received by the server

a. You should determine if server receives steady stream of packets at 2055 port (2055 is the default NetFlow port) with some packet analyzer for windows (wireshark, windump, etc) i. if there is no netflow packets check your firewalls, access lists to enable

packets to be received by NetVizura server;

b. In C:\Program Files\NetVizura\flow\temp after several seconds you should see that tmp. bin file size is increasing (This is default location for NetVizura NetFlow installation)

- i. if tmp.bin file size is not increasing, but packet analyzer shows that
 - netflow packets are reaching the server, check your local firewall
 - configuration or NetVizura NetFlow Collection port (see below).
- 2. <u>Check if Collection port on the server is open and that NetVizura is listening on that port (the default is 2055)</u>

a. Check that firewall is allowing packets on NetFlow port (the default is 2055)

b. Check that NetVizura is listening on NetFlow port

i. In Windows Command Prompt or PowerShell execute the following command: netstat noab and verify that Tomcat process is the one that occupied NetFlow port 2055. If some
other process already occupied NetFlow port you need to reconfigure that other process to
use a different port.

- c. Check that Collection port is accessible outside the NetVizura server
 - i. on a remote host execute command nmap -sU netvizura_ip_addres
 - ${\tt s}$ ${\tt -p}$ 2055 where netvizura_ip_address is the address of NetVizura

server. In the output of the command you should see that the port is open. 3. <u>Check netflow exporter configuration</u>

- Check if netflow device is configured to send netflows to the NetVizura server IP address and collection port
 - i. Collection port in NetVizura application can be set in blocked URL > Setting s > NetFlow Settings > Configuration
 - ii. Default Collection port is 2055
- b. Try installing a netflow generator and set it to export data to the NetVizura server
 - i. if there is traffic on the chart then netflow exporter configuration is not good
 ii. if there is no traffic on the chart, check if the traffic is being blocked (access lists, firewalls)