



Packet Mirroring Collector (PMC) Plugin

Table of contents

Overview

Deployment

Installation

PMC UI

Network Event Collector Display

Network Event Collector Configuration

List of Figures

Figure 0. Pmc0 Version 1 Modificationdate 1716900206277 Api V2

Figure 1. Screenshot1 Version 1 Modificationdate 1716900203613 Api V2

Figure 2. Screenshot2 Version 1 Modificationdate 1716900203320 Api V2

Figure 3. Screenshot3 Version 1 Modificationdate 1716900202537 Api V2

Overview

The Packet Mirroring Collector/Controller plugin facilitates the configuration of pFRN, Fast Recovery and Congestion mirroring on switches as well as CQE mirroring on HCAs and subsequently captures mirrored packets, enabling users to conduct real-time monitoring of network events

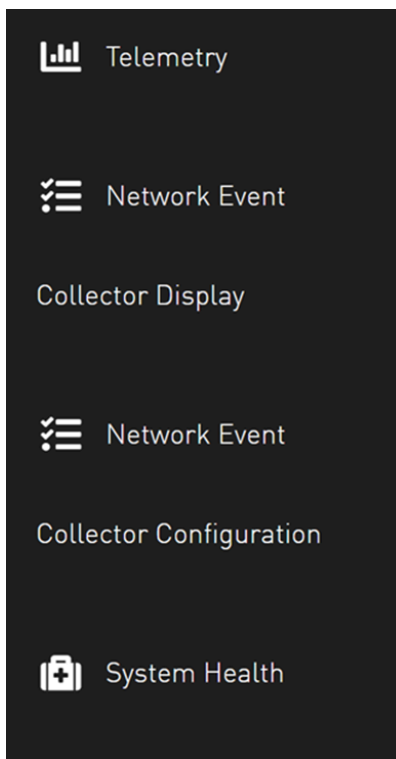
Deployment

Installation

Load the image on the UFM server; either using the UFM GUI -> Settings -> Plugins Management tab, or by loading the image via the following command:

1. [Login to the UFM server terminal.](#)
2. [Run](#)

```
docker load -i <path_to_image>
```



Upon completion of the plugin addition and subsequent refresh of the UFM GUI, the left navigation bar will display two new menu items. These two tabs can be observed in the following GUI screenshots

PMC UI

Network Event Collector Display

The screenshot shows the 'Network Event Collector Display' interface. At the top, there are tabs for 'pFRN Events', 'Congestion Events', 'Fast Recovery Events', and 'CQE Events'. Below the tabs, there is a 'Profile' dropdown set to 'Event summary' and a 'Time' dropdown set to 'Last 24 hours'. A 'Please wait...' message is displayed above the table. The table has columns for 'timestamp', 'src guid', 'src lid', 'src desc', 'local qpn', 'dst lid', 'remote qpn', 'transport', and 'syndrome'. A single row of data is visible: timestamp: 2024-01-02 11:20:13.607486, src guid: 0x98039b03009fce86, src lid: 1, src desc: smg-ib-svr065 mlx5_0, local qpn: 72, dst lid: 6, remote qpn: 224, transport: RC, syndrome: Remote Access Error. A 'Displayed Columns' button is on the right. At the bottom right, it says 'Viewing 1-1 of 1' with navigation icons and a page size of 10.

Network Event Collector Configuration

The screenshot shows the 'Network Event Collector Configuration' interface. On the left is a dark sidebar with the NVIDIA logo and 'UFM Enterprise' text. The sidebar contains menu items: 'Dashboard', 'Network Map', 'Managed Elements', 'Events & Alarms', 'Telemetry', and 'Network Event'. The main content area is titled 'Network Event Collector Display' and has the same tabs as the previous screenshot. The 'Profile' dropdown is set to 'Event summary' and the 'Time' dropdown is set to 'Last 24 hours'. A 'Displayed Columns' button is on the right. The table area is empty with the message 'No items were found'. At the bottom right, it says 'Viewing 0-0 of 0' with navigation icons and a page size of 10. The top right of the page shows 'Local Time (Asia/Jerusalem)', 'Last Update: 25 Dec 2023 17:18', and a user profile for 'admin'.

NVIDIA Network Event Collector Configuration

UFM Enterprise

- Dashboard
- Network Map
- Managed Elements
- Events & Alarms
- Telemetry
- Network Event
- Collector Display
- Network Event
- Collector Configuration

Network Event Collector Configuration

Collectors

pFRN Notifications	Disabled	Browse
Fast Recovery Notifications	Disabled	Browse
Notification Level	Normal	
CQE Notifications	on Entire Network	Browse
Congestion Notifications	Disabled	Browse
Mirrored packets (%)	1	
High threshold	75	
Low threshold	50	

General Options

enable adaptive routing	<input type="checkbox"/>
enable aggregation	<input checked="" type="checkbox"/>

[Submit](#)

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