Diameter Peer Load Rebalancing

Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Product(s) or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	Disabled – Configuration required to enable
Related Documentation	Not Applicable

Revision History

Table 2: Revision History

Revision Details	Release
First introduced.	2022.02.0

Feature Description

PCF supports diameter peer load rebalancing.

How it Works

This section describes how this feature works.

- CLI is implemented to show the diameter peer connections and its mapping to the individual pods.
- CLI is also used to initiate disconnection of a peer identified by its peer fqdn and realm details. The peer disconnect request is redirected to the respective diameter stack where the connection termination is managed in graceful manner.

Feature Configuration

To configure this feature, use the following configurations:

- View the diameter peer connections per pod.
- Diameter peer disconnection.

View the Diameter Peer Connections Per Pod

This section describes how to view the diameter peer connections per pod.

To view the diameter peer connections per pod, use the following configuration in the Policy Ops Center console:

`show diameter peer-status`

The output of this command displays the peer hostname, peer realm, pod IP and the status.

The following is a sample output of the **show diameter peer-status** command.

```
pcf# show diameter peer-status
PEER HOSTNAME         PEER REALM              POD IP          STATUS

--------------------------------------------------------------------------
site-host-rx1   site-rx-client-cisco.com   192.168.174.137   Connected
site-host-rx2   site-rx-client-cisco.com   192.168.174.137   Connected
```

Diameter Peer Disconnection

This section describes how to disconnect the diameter peer connection.

To disconnect the diameter peer connection, use the following configuration in the Policy Ops Center console:

`diameter-peer disconnect fqdn <peer-fqdn> realm <peer-realm>`

The following is a sample connection success output of the **diameter-peer disconnect fqdn site-host-rx1 realm site-rx-client-cisco.com** command.

```
pcf# diameter-peer disconnect fqdn site-host-rx1 realm site-rx-client-cisco.com
```

The following is a sample connection failure output of the **diameter-peer disconnect fqdn site-host-rx1 realm site-rx-client-tmo.com** command.

```
pcf# diameter-peer disconnect fqdn ecscf-client-s111 realm cscf.mnc010.mcc100.3gppnetwork.org
```