

DRA Distributor Configuration

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DRA Distributor Configuration Overview

DRA distributor configuration includes the following:

- Configuring the dra-distributor VMs.
- Adding VIPs to the dra-directors.
- Suppressing IPv4 ARP/IPv6 neighbor discovery for the VIPs on the dra-director.
- Adding static routes to clients (PGW, PCRF, and so on) on the dra-director.

Configuring DRA Distributor

Configuring DRA Distributor VM is performed using the ConfD CLI interface.

CLI Configuration

network dra-distributor

Add a dra-distributor cluster

Syntax

```
network dra-distributor <client> <range>
```

The following table describers the DRA Distributor configuration parameters:

Table 1: DRA Distributor Configuration Parameters

Parameter	Description
client	Name of cluster to be configured. Value range is from 1 - 8 characters

Parameter	Description
sync-id	Unique ID per cluster. VMs with the same sync-id synchronize connection data. All VMs in the named dra-distributor synchronize their connection data in case of VM failure. Value range is from 0 - 255
sync-interface	Interface used to send multicast connection sync data. Typically an interface on the Internal network. Example: ens192
global-tracking-service	Container to track for health check of dra-director VMs for all services. Default value is diameter-endpoint
host-ip	IP address of member VM. Value: Any IP address that exists on the VM. Typically, internal IP address.
global-priority	Global priority for all services of the host on which the service must run. Can be overridden in an individual service configuration. Priority range is from 1 to 255. Larger values have higher priority than lower values. Example: 10 has a higher priority than 5.
service-name	Unique name for peer service.
virtual-router-id	Virtual router ID is the identity for a virtual router for hosts that are managed for the virtual IP of the service. Value range is from 0 - 255. For more details, refer to VRRP (Virtual Router Redundancy Protocol) RFC 3768 and keepalive documentation.
tracking-service	Container to track for health check of dra-director VM. Overrides global-tracking-service. Default value is global-tracking-service.
preempt-delay	Preempt delay is delay in seconds before a VIP switches from backup to master. Default value is 30 seconds. Value range is from 1 - 1000.
interface	Interface of the host where the virtual IP is installed as secondary address when active.
service-ip	Virtual IP address of service.
service-port	TCP port of service.

Parameter	Description
service-host-ip	IP address of VM. Used to override global priority.
service-priority	Overrides global-priority. This allows a VIP to run on VM1 and another VIP to run on VM2. Example: Gx VIP on VM1 and Rx VIP on VM2.
preempt	Enable or disable VIP preemption for a single VIP. Default value is true. Value: true, false
real-service-ip	IP address of a dra-director supporting the service.
weight	Relative weight of real-server used by weighted least connection scheduling algorithm. Value range is from 0 - 255. Default value is 1. A value of 0 disables new connections to this real-server.
connection-timeout tcp	Idle timer for TCP connections in seconds. A connection is dropped if no traffic is seen for the duration of the timer. Default value is 30 seconds.
connection-timeout tcpfin	Timeout value in seconds for a connection after receiving a TCP FIN packet. A connection is dropped if no traffic is seen for the duration of the timer. Default value is 5 seconds.

Sample Configuration

```
network dra-distributor client
 sync-id          1
 sync-interface   ens192
 tracking-service diameter-endpoint
 preempt-delay 5
 host 192.169.21.20
  priority 10
 !
 host 192.169.21.21
  priority 5
 !
 service Gx
  virtual-router-id 60
  interface         ens224
  service-ip        192.169.22.50
  service-port      3868
  real-server 192.169.22.13
   weight 100
  !
  real-server 192.169.22.14
  !
 !
```

```
 service Rx
  virtual-router-id 61
  interface         ens224
  service-ip        192.169.25.80
  service-port      3868
  host 192.169.21.20
   priority 4
  !
  host 192.169.21.21
   priority 9
  !
  real-server 192.169.25.13
  !
  real-server 192.169.25.14
  !
 !
!
network dra-distributor server
 sync-id          2
 sync-interface   ens192
 tracking-service diameter-endpoint
 preempt-delay 5
 host 192.169.21.30
  priority 10
 !
 host 192.169.21.31
  priority 5
 !
 service Gx
  virtual-router-id 70
  interface         ens224
  service-ip        192.169.23.70
  service-port      3868
  real-server 192.169.23.13
   weight 100
  !
  real-server 192.169.23.14
  !
 !
 service Rx
  virtual-router-id 71
  interface         ens256
  service-ip        192.169.28.70
  service-port      3668
  real-server 192.169.28.13
  !
  real-server 192.169.28.14
  !
 !
!
```

Configuration Status Check

To check the distributor status use `show dra-distributor` command.

Example:

```
admin@orchestrator[master-0]# show dra-distributor ?
Possible completions:
  daemon  list  rate  stats
admin@orchestrator[master-0]# show dra-distributor
```

To verify distributor VIPs use `show network ips` command.

To verify director VIP/netfilter rules use the following commands:

```
ip -4 addr show (Confirm VIP address exists)
ip -6 addr show (Confirm VIP address exists)
sudo arptables --list (Confirm rule exist for each vip)
sudo ip6tables --list (Confirm ipv6 neighbor-solicitation/advertisement filters for each
vip)
```