

Tracker Commands

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boolean

To enable boolen logic while configuring a tracker group, use the **boolean** command in endpoint tracker configuration mode. To disable boolean logic, use the **no** form of this command.

boolean { **and** | **or** }
no boolean { **and** | **or** }

Syntax Description

{and | or}	Specifies boolean AND or OR logic that is used to configure a tracker group. OR logic ensures that the endpoint status is reported as active if either one of the associated trackers of the tracker group report that the endpoint is active. AND logic ensures that the endpoint status is reported as active if both the associated trackers of the tracker group report that the endpoint is active.

Command Default

OR is enabled.

Command Modes

Endpoint-tracker configuration (config-endpoint-tracker)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.7.1a	This command was introduced.

Usage Guidelines

Tracker boolean is set to OR as default.

A tracker group can have a mix of endpoint trackers. For example, to create a static route group, you can combine an IP address tracker and a TCP/UDP tracker. Similarly, to create a NAT Direct Internet Access (DIA) tracker group, you can combine an IP address tracker and a DNS tracker. You can apply only one tracker to a static route endpoint.

Examples

The following example shows how to configure a tracker group with two static route trackers (two endpoints) using the tracker boolean AND or OR:

```
Device(config)# endpoint-tracker tcp-10001
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1 tcp 10001
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 10
Device(config-endpoint-tracker)# interval 1
Device(config-endpoint-tracker)# exit
Device(config)# track tcp-10001 endpoint-tracker

Device(config)# endpoint-tracker udp-10002
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.2.2.2 udp 10002
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 5
Device(config-endpoint-tracker)# interval 2
Device(config)# track udp-10002 endpoint-tracker
Device(config-endpoint-tracker)# exit

Device(config)# endpoint-tracker static-route-group
Device(config-endpoint-tracker)# tracker-type tracker-group
Device(config-endpoint-tracker)# tracker-elements tcp-10001 udp-10002
Device(config-endpoint-tracker)# boolean and

Device(config)# track static-route-group endpoint-tracker
Device(config-endpoint-tracker)# exit
```

The following example shows how to configure tracker groups using boolean logic to probe NAT DIA interface:

```
Device(config)# endpoint-tracker tracker1
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 10
Device(config-endpoint-tracker)# interval 1
Device(config-endpoint-tracker)# exit
Device(config)# endpoint-tracker tracker2
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-dns-name www.diatracker.com
Device(config-endpoint-tracker)# threshold 1000
Device(config-endpoint-tracker)# multiplier 10
Device(config-endpoint-tracker)# interval 600
Device(config-endpoint-tracker)# exit
```

```
Device(config)# endpoint-tracker group1
Device(config-endpoint-tracker)# tracker-type tracker-group
Device(config-endpoint-tracker)# tracker-elements tracker1 tracker2
Device(config-endpoint-tracker)# boolean or
Device(config-endpoint-tracker)# exit
```

endpoint-api-url

To configure the API URL of an endpoint, use the **endpoint-api-url** command in endpoint tracker configuration mode. To diable API URL configuration, use the **no** form of this command.

endpoint-api-url *url-address*
no endpoint-api-url *url-address*

Syntax Description

url-address	API URL of an endpoint. This is the destination in the internet to which the router sends probes to determine the status of the endpoint.

Command Default

If endpoint-api-url is not configured, tracker is disabled.

Command Modes

Endpoint-tracker configuration (config-endpoint-tracker)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.7.1a	This command was introduced.

Examples

The following example shows how to configure an API URL:

```
Device(config)# endpoint-tracker tracker1

Device(config-endpoint-tracker)# endpoint-api-url http://gateway.zscalerbeta.net/vpntest
```

endpoint-dns-name

To configure the domain system name of an endpoint, use the **endpoint-dns-name** command in endpoint tracker configuration mode. To disable the configuration, use the **no** form of this command.

endpoint-dns-name *dns-name*
no endpoint-dns-name *dns-name*

Syntax Description

dns-name	DNS name of the endpoint. This is the destination on the internet to which probes are sent to determine the status of the endpoint. DNS name can contain a minimum of 1 character and a maximum of 253 characters.

Command Default

If endpoint-dns-name is not configured, tracker is disabled.

Command Modes Endpoint-tracker configuration (config-endpoint-tracker)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.7.1a	This command was introduced.

Examples

The following example shows how to configure the DNS name:

```
Device(config)# endpoint-tracker tracker1

Device(config-endpoint-tracker)# endpoint-dns-name www.cisco.com
```

The following example shows how to configure a DNS name for the NAT DIA interface:

```
Device(config)# endpoint-tracker tracker2
Device(config-endpoint-tracker)# endpoint-dns-name www.diatracker.com
Device(config-endpoint-tracker)# tracker-type interface
```

endpoint-ip

To configure the IP address of an endpoint, use the **endpoint-ip** command in endpoint tracker configuration mode. To disable the configuration, use the **no** form of this command.

Syntax for Static Route Endpoint

endpoint-ip *ip-address* [**tcp** *port-number* | **udp** *port-number*]
no endpoint-ip *ip-address* [**tcp** *port-number* | **udp** *port-number*]

Syntax for NAT DIA Interface

endpoint-ip *ip-address*
no endpoint-ip *ip-address*

Syntax Description

ip-address	IP address of an endpoint. This is the destination on the internet to which the probes are sent to determine the status of an endpoint.
tcp *port-number*	TCP endpoint type for static route.
udp *port-number*	UDP endpoint type for static route.

Command Default If endpoint-ip is not configured, the commit CLI fails.

Command Modes Endpoint-tracker configuration (config-endpoint-tracker)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.7.1a	This command was introduced.

Examples

The following example shows how to configure a static route tracker with TCP port endpoint:

```
Device(config)# endpoint-tracker tcp-10001
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.0.0.1 tcp 10001
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# interval 10
Device(config-endpoint-tracker)# multiplier 1
Device(config-endpoint-tracker)# exit
Device(config)# track tcp-10001 endpoint-tracker
Device(config-track)# ip route vrf 1 192.168.0.0 255.255.0.0 10.1.19.16 100 track name
tcp-10001
```

The following example shows how to configure a static route tracker with UDP port endpoint:

```
Device(config)# endpoint-tracker udp-10002
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.0.0.1 udp 10002
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# interval 10
Device(config-endpoint-tracker)# multiplier 1
Device(config-endpoint-tracker)# exit
Device(config)# track udp-10002 endpoint-tracker
Device(config-track)# ip route vrf 1 192.168.0.0 255.255.0.0 10.1.19.16 100 track name
udp-10002
```

The following example shows how to configure a NAT DIA tracker with IPv4 endpoint:

```
Device(config)# endpoint-tracker tracker1
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-ip 10.0.0.1
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 5
Device(config-endpoint-tracker)# interval 20
Device(config-endpoint-tracker)# exit
```

endpoint-tracker

To configure the endpoint tracker for tracking the status of an endpoint, use the **endpoint-tracker** command in global configuration mode. To disable the endpoint tracker, use the **no** form of this command.

endpoint-tracker *tracker-name*
no endpoint-tracker *tracker-name*

Syntax Description

tracker-name	Tracker name. You can enter up to 128 characters.

Command Modes

Global configuration (config)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.7.1a	This command was introduced.

Usage Guidelines

You can apply only one tracker to an endpoint.

Examples

The following example shows how to configure a single static-route tracker:

```
Device(config)# endpoint-tracker tracker1
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 1
Device(config-endpoint-tracker)# interval 10
Device(config-endpoint-tracker)# exit
```

The following example shows how to configure a single NAT DIA tracker:

```
Device(config)# endpoint-tracker tracker1
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 5
Device(config-endpoint-tracker)# interval 20
Device(config-endpoint-tracker)# exit
```

endpoint-tracker-settings

To configure the endpoint tracker settings for HTTP and ICMP trackers to stabilize the tracker states and avoid interface flaps while tracking the status of an endpoint, use the **endpoint-tracker-settings** command in global configuration mode. To disable the endpoint tracker, use the **no** form of this command.

endpoint-tracker-settings [**dia-stabilize-status** | **name-lookup-over-sig**]
no endpoint-tracker-settings [**dia-stabilize-status** | **name-lookup-over-sig**]

Syntax Description

dia-stabilize-status	Statibilizes the interface flaps by using the multiplier to update tracker status from DOWN to UP. For tracker groups, if you use boolean AND, the tracker element which comes up last will trigger the group UP. In case of boolean OR, the tracker element that comes UP first triggers the tracker UP.
name-lookup-over-sig	Controls where DNS probes for endpoint-tracker on SIG tunnels go in to the tunnel or underlay interface.

Command Default

Endpoint Stability status is not enabled.

Command Modes

Global configuration (config)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.13.1a	This command was introduced.

Examples

The following example shows how to configure the endpoint tracker settings to stabilize the tracker status changes:

```
Device(config)# endpoint-tracker-settings dia-stabilize-status

Device(config)# endpoint-tracker-settings name-lookup-over-sig
```

Endpoint Tracker SLA Profile

To configure the end point tracker for SLA profile, use the **endpoint-tracker-sla-profile** command in global configuration mode. To disable the configuration, use the **no** form of this command.

endpoint-tracker-sla-profile *profile-name* [**jitter** *jitter-value* | **latency** *latency-value* | **loss** *loss-value* | **sla-mode** { *aggressive* | *moderate* | *conservative* }]

Syntax Description

profile-name	Specify the profile name.
loss	Specify packet loss value in percentage.
latency	Specify latency value in milliseconds.
jitter	Specify jitter value as milliseconds.
sla-mode	Specify SLA mode.

Command Default

None

Command Modes

Global configuration (config)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.14.1a	This command was introduced.

The following example shows how to configure an end point tracker for SLA profile:

```
Device(config)# endpoint-tracker-sla-profile sla_agg
Device(config)#loss 10
Device(config)# latency 300
Device(config)# jitter 80
Device(config)# sla-mode aggressive
```

interval

To set the interval period, in seconds, in which probes are sent to determine the status of an endpoint, use the **interval** command in endpoint tracker configuration mode. To revert to the default setting, use the **no** form of this command.

interval *interval-value*
no interval *interval-value*

Syntax Description

interval-value	Time interval, in seconds, in which probes are sent to determine the status of the endpoint. Range: 20 to 600. Default: 60.

Command Default

Interval is configured with a default value of 60 seconds.

Command Modes

Endpoint-tracker configuration (config-endpoint-tracker)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.7.1a	This command was introduced.

Examples

The following example shows how to configure an interval of 10 secs between the probes used to track a TCP endpoint:

```
Device(config)# endpoint-tracker tcp-10001
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.0.0.1 tcp 10001
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# interval 10
Device(config-endpoint-tracker)# multiplier 1
Device(config-endpoint-tracker)# exit
```

The following example shows how to configure an interval of 10 secs between the probes used to track an NAT DIA endpoint:

```
Device(config)# endpoint-tracker tracker1
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# interval 10
Device(config-endpoint-tracker)# multiplier 1
Device(config-endpoint-tracker)# exit
```

icmp-interval

To set the interval period, in seconds, in which ICMP probes are sent to determine the status of an ICMP endpoint teacker, use the **icmp-interval** command in endpoint tracker configuration mode. To revert to the default setting, use the **no** form of this command.

icmp-interval *interval-value*
no icmp-interval *interval-value*

Syntax Description

interval-value	Time interval, in seconds, in which probes are sent to determine the status of the endpoint. Range: 2 to 1000. Default: 2.

Command Default

ICMP probe interval is configured with a default value of two seconds.

Command Modes

Endpoint-tracker configuration (config-endpoint-tracker)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.13.1a	This command was introduced.

Examples

The following example shows how to configure an interval of 10 secs between the probes used to track an ICMP endpoint:

```
Device(config)# endpoint-tracker tracker1
Device(config-endpoint-tracker)# tracker-type interface-icmp
Device(config-endpoint-tracker)# endpoint-ip 10.0.0.1
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# icmp-interval 10
Device(config-endpoint-tracker)# multiplier 1
Device(config-endpoint-tracker)# exit
```

For more information about configuring the ICMP endpoint tracker interval, see the section ICMP Endpoint Tracker for NAT DIA in *ICMP Endpoint Tracker for NAT DIA*.

Related Commands

Commands	Description
tracker-type	Specifies the tracker type for an individual tracker.
tracker-group	Specifies tracker-type as tracker group to configure a tracker group with dual endpoints.
interface-icmp	Specifies the interface type as an ICMP interface.

multiplier

To configure the multiplier that defines the number of retries required to resend probes before declaring that the endpoint is inactive, use the **multiplier** command in endpoint tracker configuration mode. To revert to the default value, use the **no** form of this commad.

multiplier *multiplier-value*
no multiplier *multiplier-value*

Syntax Description

multiplier-value	Required number of times to resend probes before declaring that the endpoint is inactive. Range: 1 to 10. Default: 3

Command Default

None

Command Modes

Endpoint-tracker configuration (config-endpoint-tracker)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.7.1a	This command was introduced.

Examples

The following example shows how to configure a multiplier value of 2 for an UDP port endpoint:

```
Device(config)# endpoint-tracker udp-10001
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.0.0.1 udp 10001
Device(config-endpoint-tracker)# multiplier 2
Device(config-endpoint-tracker)# exit
Device(config)# track udp-10001 endpoint-tracker
```

The following example shows how to configure a multiplier value of 5 for a NAT DIA endpoint:

```
Device(config)# endpoint-tracker tracker
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1
Device(config-endpoint-tracker)# multiplier 5
Device(config-endpoint-tracker)# exit
```

threshold

To set the threshold time required to wait for the probe to return a response before declaring that the endpoint is inactive, use the **threshold** command in endpoint tracker configuration mode. To revert to the default value, use the **no** form of this command.

threshold *threshold-value*
no threshold *threshold-value*

Syntax Description

threshold-value	Time required to wait for the probe to return a response before declaring that the endpoint is inactive. Range: 100 to 1000. Default: 300.

Command Default

None

Command Modes

Endpoint-tracker configuration (config-endpoint-tracker)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.7.1a	This command was introduced.

Examples

The following example shows how to configure a threshold of value 100 for a static route with an UDP port endpoint:

```
Device(config)# endpoint-tracker udp-10001
```

```
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.0.0.1 udp 10001
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# exit
```

The following example shows how to configure a threshold of value 100 for an NAT DIA endpoint:

```
Device(config)# endpoint-tracker tracker
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# exit
```

tracker-elements

To add tracker names to create a dual endpoint tracker group, use the **tracker-elements** command in endpoint-tracker (tracker-group) configuration mode. To disable the configuration, use the **no** form of this command.

tracker-elements *tracker1 tracker2*
no tracker-elements *tracker1 tracker2*

Syntax Description

tracker1 *tracker2*	Tracker names to be included while creating a tracker group. Add the existing tracker names (separated by a space). When you add trackers to the template, the tracker group is associated with these individual trackers. You can then associate the tracker group to an endpoint.

Command Default

None

Command Modes

Endpoint-tracker configuration (tracker-group)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.7.1a	This command was introduced.

Usage Guidelines

only a maximum of two tracker endpoints can be added in a tracker group.

A tracker group can have a mix of endpoint trackers. For example, to create a static route group, you can combine an IP address tracker and a TCP/UDP tracker. Similarly, to create a NAT DIA tracker group, you can combine an IP address tracker and a DNS tracker. You can apply only one tracker to a static route endpoint.

Examples

The following example shows how to configure a tracker group with two static route endpoints:

```
Device(config)# endpoint-tracker tcp-10001
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1 tcp 10001
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 10
Device(config-endpoint-tracker)# interval 1
Device(config-endpoint-tracker)# exit
```

```
Device(config)# track tcp-10001 endpoint-tracker

Device(config)# endpoint-tracker udp-10002
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.2.2.2 udp 10002
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 5
Device(config-endpoint-tracker)# interval 2
Device(config)# track udp-10002 endpoint-tracker
Device(config-endpoint-tracker)# exit

Device(config)# endpoint-tracker static-route-group
Device(config-endpoint-tracker)# tracker-type tracker-group
Device(config-endpoint-tracker)# tracker-elements tcp-10001 udp-10002
Device(config-endpoint-tracker)# boolean and

Device(config)# track static-route-group endpoint-tracker
Device(config-endpoint-tracker)# exit
```

The following example shows how to configure a tracker group with two NAT DIA endpoints:

```
Device(config)# endpoint-tracker tracker1
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 10
Device(config-endpoint-tracker)# interval 1
Device(config-endpoint-tracker)# exit

Device(config)# endpoint-tracker tracker2
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-dns-name www.diatracker.com
Device(config-endpoint-tracker)# threshold 1000
Device(config-endpoint-tracker)# multiplier 10
Device(config-endpoint-tracker)# interval 600
Device(config-endpoint-tracker)# exit

Device(config)# endpoint-tracker group1
Device(config-endpoint-tracker)# tracker-type tracker-group
Device(config-endpoint-tracker)# tracker-elements tracker1 tracker2
Device(config-endpoint-tracker)# boolean or
Device(config-endpoint-tracker)# exit
```

tracker-type

To configure the tracker type for an individual tracker and to configure the tracker type for a tracker group, use the **tracker-type** command in endpoint tracker configuration mode. To disable the configurations, use the **no** form of this command.

tracker-type [**interface** | **ipv6-interface** | **static-route** | **tracker-group** | **interface-icmp** | **ipv6-interface-icmp**]
no tracker-type [**interface** | **ipv6-interface** | **static-route** | **tracker-group** | **interface-icmp** | **ipv6-interface-icmp**]

Syntax Description

interface	Specifies tracker-type as interface to configure endpoint trackers. Default tracker-type is interface.

ipv6-interface	Specifies tracker-type as as an IPv6 interface to configure endpoint trackers.
static-route	Specifies tracker-type as static-route to configure endpoint trackers.
tracker-group	Specifies tracker-type as tracker group to configure a tracker group with dual endpoints. From Cisco IOS XE Catalyst SD-WAN Release 17.7.1a, you can configure a tracker group with dual endpoints in Cisco IOS XE Catalyst SD-WAN devices, and associate this tracker group to an endpoint.
interface-icmp	Tracks an IPv4 interface via ICMP probes.
ipv6-interface-icmp	Tracks an IPv6 interface via ICMP probes.

Command Default

Interface type is enabled.

Command Modes

Endpoint-tracker configuration (config-endpoint-tracker)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.7.1a	This command was introduced.
Cisco IOS XE Catalyst SD-WAN Release 17.13.1a	New keywords were added to this command: • interface-icmp • ipv6-interface-icmp

Usage Guidelines

A tracker group can have a mix of endpoint trackers. For example, to create a static route group, you can combine an IP address tracker and a TCP/UDP tracker. Similarly, to create a NAT DIA tracker group, you can combine an IP address tracker and a DNS tracker. Note that you can apply only one tracker to a static route endpoint.

Examples

The following example shows how to configure tracker type as static-route for a tracker with a TCP endpoint:

```
Device(config)# endpoint-tracker tcp-10001
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1 tcp 10001
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 10
Device(config-endpoint-tracker)# interval 1
Device(config-endpoint-tracker)# exit
Device(config)# track tcp-10001 endpoint-tracker
```

The following example shows how to configure tracker type as tracker-group for creating a tracker group with dual static-route endpoints:

```
Device(config)# endpoint-tracker tcp-10001
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1 tcp 10001
Device(config-endpoint-tracker)# multiplier 10
Device(config-endpoint-tracker)# exit
Device(config)# track tcp-10001 endpoint-tracker
```

```
Device(config)# endpoint-tracker udp-10002
Device(config-endpoint-tracker)# tracker-type static-route
Device(config-endpoint-tracker)# endpoint-ip 10.2.2.2 udp 10002
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# interval 2
Device(config-endpoint-tracker)# exit
Device(config)# track udp-10002 endpoint-tracker

Device(config)# endpoint-tracker static-route-group
Device(config-endpoint-tracker)# tracker-type tracker-group
Device(config-endpoint-tracker)# tracker-elements tcp-10001 udp-10002
Device(config-endpoint-tracker)# boolean and
Device(config-endpoint-tracker)# exit
Device(config)# track static-route-group endpoint-tracker
```

The following example shows how to configure tracker type as interface for a NAT DIA tracker endpoint:

```
Device(config)# endpoint-tracker tracker1
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-dns-name www.cisco.com
Device(config-endpoint-tracker)# exit
```

The following example shows how to configure tracker type as tracker-group for a NAT DIA interface:

```
Device(config)# endpoint-tracker tracker1
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1
Device(config-endpoint-tracker)# exit
Device(config)# endpoint-tracker tracker2
Device(config-endpoint-tracker)# tracker-type interface
Device(config-endpoint-tracker)# endpoint-dns-name www.cisco.com
Device(config-endpoint-tracker)# threshold 1000
Device(config-endpoint-tracker)# multiplier 10
Device(config-endpoint-tracker)# exit

Device(config)# endpoint-tracker group1
Device(config-endpoint-tracker)# tracker-type tracker-group
Device(config-endpoint-tracker)# tracker-elements tracker1 tracker2
Device(config-endpoint-tracker)# boolean or
Device(config-endpoint-tracker)# exit
```

The following example shows how to configure an ICMP tracker type for a NAT DIA interface:

```
Device(config)# endpoint-tracker tracker3
Device(config-endpoint-tracker)# tracker-type interface-icmp
Device(config-endpoint-tracker)# endpoint-ip 10.1.1.1
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 5
Device(config-endpoint-tracker)# icmp-interval 2
```

The following example shows how to configure an IPv6 ICMP tracker type for a NAT DIA interface:

```
Device(config)# endpoint-tracker tracker3
Device(config-endpoint-tracker)# tracker-type ipv6-interface-icmp
Device(config-endpoint-tracker)# ipv6-endpoint 2001:A1:F::5
Device(config-endpoint-tracker)# threshold 100
Device(config-endpoint-tracker)# multiplier 5
Device(config-endpoint-tracker)# icmp-interval 2
```

The following is a sample output from the **show endpoint-tracker** command for an IPv6 ICMP endpoint tracker applied to an interface.

```
Device# show endpoint-tracker

Interface                    Record Name            Status          Address Family    RTT
in msecs    Probe ID        Next Hop
GigabitEthernet1                  t2                 Up              IPv6              1
             6              2001:DB8:1::1
```