

Neighbor Detection Configuration Commands

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Chapter 1 ND Commands

Neighbor Detection (ND) commands include the following ones:

- `debug ipv6 nd`
- `show ipv6 neighbors`
- `clear ipv6 neighbors`
- `ipv6 neighbor`

1.1.1 debug ipv6 nd

Syntax

To enable the switch of printing ND debugging information, run the following command:

debug ipv6 nd [*entry* | *timer* | *X:X:X:X::X* | *adj-table*]

Parameter

Parameter	Description
<i>entry</i>	Stands for the switch of neighbor cache entry changes.
<i>timer</i>	Stands for the switch of neighbor cache timer changes.
<i>X:X:X:X::X</i>	Stands for the IPv6 address of neighbor cache.
<i>adj-table</i>	Stands for the debug switch of neighbor adjacency table.

Default

By default, the switch of printing ND debugging information is in disabled state.

Command Mode

EXEC

Usage Guidelines

If the command carries with no extension parameters, all debugging switches are enabled.

Example

None

Related Command

None

1.1.2 show ipv6 neighbors

Syntax

To display the current switch's neighbor cache, run the following command:

show ipv6 neighbors [interface | **summary**]

Parameter

Parameter	Description
interface	Display the IPv6 neighbor cache based on the interface.
summary	Display summary IPv6 neighbor cache information.

Default

Display all IPv6 neighbor cache information.

Command Mode

EXEC

Usage Guidelines

None

Related Command

None

1.1.3 clear ipv6 neighbors

Syntax

To cancel on a switch all neighbor caches that are not configured manually, run the following command:

clear ipv6 neighbors

Parameter

None

Default

None

Command Mode

EXEC

Usage Guidelines

This command can only cancel all those neighbor caches automatically obtained by a switch itself, not those manually configured by the **ipv6 neighbor** command.

Related Command

ipv6 neighbor

1.1.4 ipv6 neighbor

Syntax

To set neighbor caches of a switch, run the following command globally:

ipv6 neighbor *address6* *vlan* *vlanid* *mac*

Parameter

Parameter	Description
<i>address6</i>	Means the IPv6 address of the neighbor.
<i>vlanid</i>	Stands for the ID of the VLAN port.
<i>mac</i>	Means the link-layer address of a neighbor.

Default

None

Command Mode

Global configuration mode

Usage Guidelines

You can use this command to set neighbor caches of a switch. These neighbor caches never times out and are always reachable until **no ipv6 neighbor** is run.

Example

```
IPv6_config#ipv6 neighbor 1::1 vlan 1 00:e0::4c:5a:78:eb
```

The above-mentioned example shows how to set on port e1/1 a neighbor whose IPv6 address is 1::1 and whose link-layer address is 00:e0:4c:5a:78:eb.

Related Command

```
show ipv6 neighbors
```