

Near Neighbor Detection Configuration Commands



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Chapter 1 Neighbor Detection Configuration Commands

Neighbor Detection Configuration Commands include:

- 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 | XXXX:X | adjtable]
```

Parameters

Parameters	Description
entry	Stands for the switch of neighbor cache entry changes.
timer	Stands for the switch of neighbor cache timer changes.
XXXX:X	Stands for the IPv6 address of neighbor cache.
adjtable	neighbor adjacent table switch

Default Value

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 [ vlan vlan vlanid]
```

Parameters

Parameters	Description
vlanid	vlan号。

Default Value

None

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
```

Parameters

None

Default Value

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 in the global configuration mode, run the following command globally:

```
ipv6 neighbor address vlan-id mac
```

Parameters

Parameters	Description
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address	IP address of the neighbor
vlanid	Stands for the ID of the VLAN port.
mac	Means the link-layer address of a neighbor.

Default Value

None

Command Mode

Global configuration mode

Usage Guidelines

This command can be used to set neighbor caches of a switch. These neighbor caches never times out and are always reachable until no ipv6 neighbor is run.

Example

The following example shows how to set on port interface vlan1 a neighbor whose IPv6 address is 1::1 and whose link-layer address is 00:e0:4c:5a:78:eb.

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

Related Command

```
show ipv6 neighbors
```