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# 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* | *X:X:X:X::X* | *adj-table*]

#### Parameters

Parameters	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>	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 vlanid ]
```

## Parameters

Parameters	Description
<i>vlanid</i>	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`** *address6* **`vlan`** *vlanid* *mac*

## Parameters

Parameters	Description
<i>address6</i>	IP 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 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
```