

# 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
entry	Stands for the switch of neighbor cache entry changes.
timer	Stands for the switch of neighbor cache timer changes.
X:X:X:X::X	Stands for the IPv6 address of neighbor cache.
adj-table	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
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 address6 vlan vlanid mac`

## Parameters

Parameters	Description
address6	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
```