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# Configuring IPv6 fast forwarding

## About IPv6 fast forwarding

Fast forwarding reduces route lookup time and improves packet forwarding efficiency by using a high-speed cache and data-flow-based technology. It identifies a data flow by using the following fields:

- Source IPv6 address.
- Destination IPv6 address.
- Source port number.
- Destination port number.
- Protocol number.

After a flow's first packet is forwarded through the routing table, fast forwarding creates an entry and uses the entry to forward subsequent packets of the flow.

## Configuring the aging time for IPv6 fast forwarding entries

### About aging time for IPv6 fast forwarding entries

The IPv6 fast forwarding table uses an aging timer for each forwarding entry. If an entry is not updated before the timer expires, the device deletes the entry. If an entry has a hit within the aging time, the aging timer restarts.

#### Procedure

1. Enter system view.  
`system-view`
2. Set the aging time for IPv6 fast forwarding entries.  
`ipv6 fast-forwarding aging-time aging-time`  
By default, the aging time is 30 seconds.

## Configuring IPv6 fast forwarding load sharing

### About IPv6 fast forwarding load sharing

IPv6 fast forwarding load sharing enables the device to identify a data flow by using the packet information.

If IPv6 fast forwarding load sharing is disabled, the device identifies a data flow by the packet information and the input interface.

#### Procedure

1. Enter system view.  
`system-view`
2. Configure IPv6 fast forwarding load sharing. Choose one option as needed:
  - Enable IPv6 fast forwarding load sharing.  
`Ipv6 fast-forwarding load-sharing`

- Disable IPv6 fast forwarding load sharing.  
`undo ipv6 fast-forwarding load-sharing`  
 By default, IPv6 fast forwarding load sharing is enabled.

## Display and maintenance commands for IPv6 fast forwarding

Execute **display** commands in any view and **reset** commands in user view.

Task	Command
Display the aging time of the IPv6 fast forwarding entries.	<code>display ipv6 fast-forwarding aging-time</code>
Display IPv6 fast forwarding entries.	<code>display ipv6 fast-forwarding cache [ ipv6-address ] [ slot slot-number ]</code>
Clear the IPv6 fast forwarding table.	<code>reset ipv6 fast-forwarding cache [ slot slot-number ]</code>