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# IPv6 fast forwarding commands

## display ipv6 fast-forwarding aging-time

Use **display ipv6 fast-forwarding aging-time** to display the aging time of IPv6 fast forwarding entries.

### Syntax

```
display ipv6 fast-forwarding aging-time
```

### Views

Any view

### Predefined user roles

network-admin

network-operator

### Examples

```
# Display the aging time of IPv6 fast forwarding entries.
```

```
<Sysname> display ipv6 fast-forwarding aging-time
```

```
Aging time: 30s
```

**Table 1 Command output**

Field	Description
Aging time	Aging time of IPv6 fast forwarding entries.

### Related commands

**ipv6 fast-forwarding aging-time**

## display ipv6 fast-forwarding cache

Use **display ipv6 fast-forwarding cache** to display IPv6 fast forwarding table information.

### Syntax

```
display ipv6 fast-forwarding cache [ ipv6-address ] [ slot slot-number ]
```

### Views

Any view

### Predefined user roles

network-admin

network-operator

### Parameters

*ipv6-address*: Specifies an IPv6 address. If you do not specify an IPv6 address, this command displays all IPv6 fast forwarding entries.

**slot** *slot-number*: Specifies an IRF member device by its member ID. If you do not specify this option, the command displays IPv6 fast forwarding entries on all member devices.

## Usage guidelines

This command displays IPv6 fast forwarding entries. Each entry includes the following fields:

- Source IPv6 address
- Source port number
- Destination IPv6 address
- Destination port number
- Protocol number
- VPN instance
- Input and output interface

## Examples

# Display all IPv6 fast forwarding entries.

```
<Sysname> display ipv6 fast-forwarding cache
Total number of IPv6 fast-forwarding items: 2
Src IP: 2002::1
Dst IP: 2001::1
Protocol: 58
VPN instance: vpn1
Input interface: XGE1/0/2
Output interface: XGE1/0/1
```

```
Src port: 129
Dst port: 65535
```

```
Src IP: 2001::1
Dst IP: 2002::1
Protocol: 58
VPN instance: vpn2
Input interface: XGE1/0/1
Output interface: XGE1/0/2
```

```
Src port: 128
Dst port: 0
```

**Table 2 Command output**

Field	Description
Total number of IPv6 fast-forwarding items	Number of IPv6 fast forwarding entries.
Src IP	Source IPv6 address.
Src port	Source port number.
Dst IP	Destination IPv6 address.
Dst Port	Destination port number.
Protocol	Protocol number.
VPN instance	VPN instance.
Input interface	Input interface type and number. If no interface is involved in fast forwarding, this field displays <b>N/A</b> . If the input interface does not exist, this field displays a hyphen (-).

Field	Description
Output interface	Output interface type and number. If no interface is involved in fast forwarding, this field displays <b>N/A</b> . If the output interface does not exist, this field displays a hyphen (-).

### Related commands

**reset ipv6 fast-forwarding cache**

## ipv6 fast-forwarding aging-time

Use **ipv6 fast-forwarding aging-time** to set the aging time of IPv6 fast forwarding entries.

Use **undo ipv6 fast-forwarding aging-time** to restore the default.

### Syntax

**ipv6 fast-forwarding aging-time** *aging-time*

**undo ipv6 fast-forwarding aging-time**

### Default

The aging time of IPv6 fast forwarding entries is 30 seconds.

### Views

System view

### Predefined user roles

network-admin

### Parameters

*aging-time*: Sets the aging time for IPv6 fast forwarding entries, in the range of 10 to 300 seconds.

### Examples

# Set the aging time for IPv6 fast forwarding entries to 20 seconds.

```
<Sysname> system-view
```

```
[Sysname] ipv6 fast-forwarding aging-time 20
```

### Related commands

**display ipv6 fast-forwarding aging-time**

## ipv6 fast-forwarding load-sharing

Use **ipv6 fast-forwarding load-sharing** to enable IPv6 fast-forwarding load sharing.

Use **undo ipv6 fast-forwarding load-sharing** to disable IPv6 fast-forwarding load sharing.

### Syntax

**ipv6 fast-forwarding load-sharing**

**undo ipv6 fast-forwarding load-sharing**

### Default

IPv6 fast-forwarding load sharing is enabled.

### Views

System view

## Predefined user roles

network-admin

## Usage guidelines

IPv6 fast-forwarding load sharing enables the device to identify a data flow by using the five-tuple (source IP, source port, destination IP, destination port, and protocol). The device then forwards packets of the same flow to implement load sharing.

If IPv6 fast-forwarding load sharing is disabled, the device identifies a data flow by the five-tuple and the input interface. No load sharing is implemented.

## Examples

```
# Enable IPv6 fast-forwarding load sharing.
<Sysname> system-Views
[Sysname] ipv6 fast-forwarding load-sharing
```

# reset ipv6 fast-forwarding cache

Use **reset ipv6 fast-forwarding cache** to clear IPv6 fast forwarding table information.

## Syntax

```
reset ipv6 fast-forwarding cache [ slot slot-number ]
```

## Views

User view

## Predefined user roles

network-admin

## Parameters

**slot** *slot-number*: Specifies an IRF member device by its member ID. If you do not specify this option, the command clears the IPv6 fast forwarding table information on all member devices.

## Examples

```
# Clear IPv6 fast forwarding table information.
<Sysname> reset ipv6 fast-forwarding cache
```

## Related commands

```
display ipv6 fast-forwarding cache
```