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UDP helper commands

The term "interface" in this chapter refers to VLAN interfaces.

display udp-helper interface

Use **display udp-helper interface** to display information about broadcast to unicast conversion by UDP helper on an interface.

Syntax

display udp-helper interface *interface-type interface-number*

Views

Any view

Predefined user roles

network-admin
network-operator

Parameters

interface-type interface-number. Specifies an interface by its type and number.

Usage guidelines

This command displays information about destination servers and total number of unicast packets converted from UDP broadcast packets by UDP helper.

Examples

Display information about broadcast to unicast conversion by UDP helper on VLAN-interface 1.

```
<Sysname> display udp-helper interface vlan-interface 1
```

Interface	Server VPN instance	Server address	Packets sent
Vlan-interface1	abc	192.1.1.2	0
Vlan-interface1	N/A	192.1.1.2	0

Table 1 Command output

Field	Description
Interface	Interface name.
Server VPN instance	VPN instance to which the destination server belongs.
Server address	Destination server to which UDP packets are forwarded.
Packets sent	Number of unicast packets that are converted from broadcast packets by UDP helper.

Related commands

- **reset udp-helper statistics**
- **udp-helper server**

reset udp-helper statistics

Use **reset udp-helper statistics** to clear packet statistics for UDP helper.

Syntax

reset udp-helper statistics

Views

User view

Predefined user roles

network-admin

Examples

```
# Clear the packet statistics for UDP helper.  
<Sysname> reset udp-helper statistics
```

Related commands

display udp-helper interface

udp-helper broadcast-map

Use **udp-helper broadcast-map** to specify a multicast address for UDP helper to convert broadcast to multicast.

Use **undo udp-helper broadcast-map** to remove a multicast address.

Syntax

udp-helper broadcast-map *multicast-address* [**acl** *acl-number*]

undo udp-helper broadcast-map *multicast-address*

Default

No multicast address is specified for UDP helper.

Views

Interface view

Predefined user roles

network-admin

Parameters

multicast-address: Specifies the destination multicast address to which the destination broadcast address is converted.

acl *acl-number*: Specifies an ACL by its number in the range of 2000 to 3999 to filter incoming broadcast packets for UDP helper. Packets permitted by the ACL can be converted.

- For a basic ACL, the value range is 2000 to 2999.
- For an advanced ACL, the value range is 3000 to 3999.

Usage guidelines

Use this command on the interface that receives broadcast packets.

You can configure a maximum of 20 unicast and multicast addresses for UDP helper to convert broadcast packets.

Examples

```
# Configure UDP helper to convert received broadcast packets on VLAN-interface 100 to multicast packets destined for 225.0.0.1.
```

```
<Sysname> system-view  
[Sysname] interface vlan-interface 100
```

```
[Sysname-vlan-interface 100] udp-helper broadcast-map 225.0.0.1
```

udp-helper enable

Use **udp-helper enable** to enable UDP helper.

Use **undo udp-helper enable** to disable UDP helper.

Syntax

udp-helper enable

undo udp-helper enable

Default

UDP helper is disabled.

Views

System view

Predefined user roles

network-admin

Usage guidelines

UDP helper takes effect when you use the **udp-helper enable** command with the **udp-helper port** command and at least one of the following commands:

- **udp-helper server**
- **udp-helper broadcast-map**

Examples

```
# Enable UDP helper.  
<Sysname> system-view  
[Sysname] udp-helper enable
```

Related commands

- **udp-helper port**
- **udp-helper server**
- **udp-helper broadcast-map**

udp-helper port

Use **udp-helper port** to specify a UDP port number for UDP helper.

Use **undo udp-helper port** to remove UDP port numbers.

Syntax

udp-helper port { *port-number* | **dns** | **netbios-ds** | **netbios-ns** | **tacacs** | **tftp** | **time** }

undo udp-helper port { *port-number* | **dns** | **netbios-ds** | **netbios-ns** | **tacacs** | **tftp** | **time** }

Default

No UDP port number is specified for UDP helper.

Views

System view

Predefined user roles

network-admin

Parameters

port-number: Specifies a UDP port number in the range of 1 to 65535 (except 67 and 68).

dns: Specifies the UDP port 53 used by DNS packets.

netbios-ds: Specifies the UDP port 138 used by NetBIOS distribution service packets.

netbios-ns: Specifies the UDP port 137 used by NetBIOS name service packets.

tacacs: Specifies the UDP port 49 used by TACACS packets.

tftp: Specifies the UDP port 69 used by TFTP packets.

time: Specifies the UDP port 37 used by time protocol packets.

Usage guidelines

To specify a UDP port, you can specify the port number or the corresponding protocol keyword. For example, **udp-helper port 53** and **udp-helper port dns** specify the same UDP port.

You can specify a maximum of 256 UDP ports on a device.

Examples

```
# Specify the UDP port 100 for UDP helper.  
<Sysname> system-view  
[Sysname] udp-helper port 100
```

udp-helper server

Use **udp-helper server** to specify a destination server for UDP helper to convert broadcast to unicast.

Use **undo udp-helper server** to remove a destination server.

Syntax

udp-helper server *ip-address* [**global** | **vpn-instance** *vpn-instance-name*]

undo udp-helper server [*ip-address* [**global** | **vpn-instance** *vpn-instance-name*]]

Default

No destination server is specified for UDP helper.

Views

Interface view

Predefined user roles

network-admin

Parameters

ip-address: Specifies the IP address of a destination server, in dotted decimal notation.

global: Forwards converted unicast packets to the server on the public network.

vpn-instance *vpn-instance-name*: Specifies a VPN instance to which the server belongs. The VPN instance name is a case-sensitive string of 1 to 31 characters.

Usage guidelines

Specify destination servers on an interface that receives UDP broadcast packets.

You can specify a maximum of 20 unicast and multicast addresses for UDP helper to convert broadcast packets on an interface.

If you do not specify the *ip-address* argument, the **undo udp-helper server** command removes all destination servers on the interface.

If you specify only the IP address, UDP helper forwards converted unicast packets in the VPN bound to the interface that receives broadcast packets. If the interface is not bound to any VPNs, UDP helper forwards the unicast packets on the public network.

Examples

Specify the destination server 192.1.1.2 for UDP helper on VLAN-interface 100.

```
<Sysname> system-view
[Sysname] interface vlan-interface 100
[Sysname-Vlan-interface100] udp-helper server 192.1.1.2
```

Specify the destination server 192.1.1.2 on the public network for UDP helper on VLAN-interface 100.

```
<Sysname> system-view
[Sysname] interface vlan-interface 100
[Sysname-Vlan-interface100] udp-helper server 192.1.1.2 global
```

Related commands

display udp-helper interface