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# Chapter 1 Source IP Address Configuration

## 1.1.1 Configuring Source IP Address for Service Packets

You can configure source IP address or source interface for the FTP server, FTP client, TFTP client, Telnet server, Telnet client, SSH server, SSH2 client and SFTP client to enhance service manageability.

The following table shows the source IP address configuration tasks.

**Table 1-1** Configure source IP address for service packets

Operation	Command	Remarks
Enter system view	<b>system-view</b>	—
Specify source IP address for the FTP server	<b>ftp-server source-ip</b> <i>ip-addr</i>	Optional
Specify source interface for the FTP server	<b>ftp-server source-interface</b> <i>interface-type interface-number</i>	Optional
Use a specified source IP address to establish a connection with an FTP server	<b>ftp { cluster   remote-server } source-ip</b> <i>ip-addr</i>	Optional
Use a specified source interface to establish a connection with an FTP server	<b>ftp { cluster   remote-server } source-interface</b> <i>interface-type interface-number</i>	Optional
Specify source IP address for the FTP client	<b>ftp source-ip</b> <i>ip-addr</i>	Optional
Specify source interface for the FTP client	<b>ftp source-interface</b> <i>interface-type interface-number</i>	Optional
Use a specified source IP address to establish a connection with a TFTP server	<b>tftp tftp-server source-ip</b> <i>ip-addr</i>	Optional
Use a specified source interface to establish a connection with a TFTP server	<b>tftp tftp-server source-interface</b> <i>interface-type interface-number</i>	Optional
Specify source IP address for the TFTP client	<b>tftp source-ip</b> <i>ip-addr</i>	Optional

Operation	Command	Remarks
Specify source interface for the FTPT client	<b>tftp source-interface</b> <i>interface-type interface-number</i>	Optional
Specify source IP address for the Telnet server	<b>telnet-server source-ip</b> <i>ip-addr</i>	Optional
Specify source interface for the Telnet server	<b>telnet-server source-interface</b> <i>interface-type interface-number</i>	Optional
Specify source IP address for the Telnet client	<b>telnet source-ip</b> <i>ip-addr</i>	Optional
Specify source interface for the Telnet client	<b>telnet source-interface</b> <i>interface-type interface-number</i>	Optional
Specify source IP address for the SSH server	<b>ssh-server source-ip</b> <i>ip-addr</i>	Optional
Specify source interface for the SSH server	<b>ssh-server source-interface</b> <i>interface-type interface-number</i>	Optional
Specify source IP address for the SSH2 client	<b>ssh2 source-ip</b> <i>ip-addr</i>	Optional
Specify source interface for the SSH2 client	<b>ssh2 source-interface</b> <i>interface-type interface-number</i>	Optional
Specify source IP address for the SFTP client	<b>sftp source-ip</b> <i>ip-addr</i>	Optional
Specify source interface for the SFTP client	<b>sftp source-interface</b> <i>interface-type interface-number</i>	Optional

**Note:**

- If the *ip-addr* in the command is not an address of the device, your configuration fails.
- If you specify a nonexistent interface in the command, your configuration fails.

## 1.1.2 Displaying the Source IP Address Configuration

Use the **display** commands in any view to display the source IP address configuration for service packets.

**Table 1-2** Display the source IP address configuration

Operation	Command
Display the source IP address of the FTP server	<b>display ftp-server source-ip</b>
Display the source IP address of the FTP client	<b>display ftp source-ip</b>
Display the source IP address of the TFTP client	<b>display tftp source-ip</b>
Display the source IP address of the Telnet server	<b>display telnet-server source-ip</b>
Display the source IP address of the SSH server	<b>display ssh-server source-ip</b>
Display the source IP address of the SSH2 client	<b>display ssh2 source-ip</b>
Display the source IP address of the SFTP client	<b>display sftp source-ip</b>

## Chapter 2 Specified Source IP Address Configuration Commands

### 2.1.1 display ftp source-ip

#### Syntax

**display ftp source-ip**

#### View

Any view

#### Parameter

None

#### Description

Use the **display ftp source-ip** command to display the source IP address of the FTP client. If no source IP address is specified, 0.0.0.0 is displayed.

#### Example

```
# Display the source IP address of the FTP client.  
<Quidway> display ftp source-ip  
The source IP you specified is 192.168.0.1
```

### 2.1.2 display ftp-server source-ip

#### Syntax

**display ftp-server source-ip**

#### View

Any view

#### Parameter

None

#### Description

Use the **display ftp-server source-ip** command to display the source IP address of the FTP server. If no source IP address is specified, 0.0.0.0 is displayed.

## Example

# Display the source IP address of the FTP server.

```
<Quidway> display ftp-server source-ip
```

The source IP you specified is 192.168.0.1

### 2.1.3 display sftp source-ip

#### Syntax

**display sftp source-ip**

#### View

Any view

#### Parameter

None

#### Description

Use the **display sftp source-ip** command to display the source IP address of the SFTP client. If no source IP address is specified, 0.0.0.0 is displayed.

## Example

# Display the source IP address of the SFTP client.

```
<Quidway> display sftp source-ip
```

The source IP you specified is 192.168.1.1

### 2.1.4 display ssh2 source-ip

#### Syntax

**display ssh2 source-ip**

#### View

Any view

#### Parameter

None

#### Description

Use the **display ssh2 source-ip** command to display the source IP address of the SSH2 client. If no source IP address is specified, 0.0.0.0 is displayed.

## Example

# Display the source IP address of the SSH2 client.

```
<Quidway> display ssh2 source-ip
```

The source IP you specified is 192.168.0.1

## 2.1.5 display ssh-server source-ip

### Syntax

**display ssh-server source-ip**

### View

Any view

### Parameter

None

### Description

Use the **display ssh-server source-ip** command to display the source IP address of the SSH server. If no source IP address is specified, 0.0.0.0 is displayed.

## Example

# Display the source IP address of the SSH server.

```
<Quidway> display ssh-server source-ip
```

The source IP you specified is 192.168.1.1

## 2.1.6 display telnet-server source-ip

### Syntax

**display telnet-server source-ip**

### View

Any view

### Parameter

None

### Description

Use the **display telnet-server source-ip** command to display the source IP address of the Telnet server. If no source IP address is specified, 0.0.0.0 is displayed.

## Example

# Display the source IP address of the Telnet server.

```
<Quidway> display telnet-server source-ip
```

The source IP you specified is 192.168.1.1

## 2.1.7 display tftp source-ip

### Syntax

**display tftp source-ip**

### View

Any view

### Parameter

None

### Description

Use the **display tftp source-ip** command to display the source IP address of the TFTP client. If no source IP address is specified, 0.0.0.0 is displayed.

## Example

# Display the source IP address of the TFTP client.

```
<Quidway> system-view
```

```
[Quidway] display tftp source-ip
```

The source IP you specify is 192.168.0.1

## 2.1.8 ftp { cluster | remote-server } source-interface

### Syntax

**ftp { cluster | remote-server } source-interface** *interface-type interface-number*

### View

User view

### Parameter

**cluster**: Specifies the cluster FTP server.

*remote-server*: IP address or host name of an FTP server.

*interface-type*: Source interface type.

*interface-number*: Source interface number.



## Description

Use the **ftp { cluster | remote-server } source-interface** command to use a specified source interface to establish a connection with an FTP server. When the specified interface does not exist, the command fails.

## Example

# Use a specified source interface to establish a connection with a remote FTP server.

```
<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] ftp 192.168.8.8 source-interface Vlan-interface 1
```

### 2.1.9 ftp { cluster | remote-server } source-ip

#### Syntax

**ftp { cluster | remote-server } source-ip ip-addr**

#### View

User view

#### Parameter

**cluster**: Specifies the cluster FTP server.

**remote-server**: IP address or host name of an FTP server.

**ip-addr**: Source IP address.

## Description

Use the **ftp { cluster | remote-server } source-ip** command to use a specified source IP address to establish a connection with an FTP server.

## Example

# Use a specified source IP address to establish a connection with a remote FTP server.

```
<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] ftp 192.168.8.8 source-ip 192.168.0.1
```

### 2.1.10 ftp source-interface

#### Syntax

**ftp source-interface interface-type interface-number**

**undo ftp source-interface**

## View

System view

## Parameter

*interface-type*: Source interface type.

*interface-number*: Source interface number.

## Description

Use the **ftp source-interface** command to specify source interface for the FTP client. If you specify a nonexistent interface in the command, your configuration fails.

Use the **undo ftp source-interface** command to clear source interface configuration. After that, the source address in the packets sent to the FTP server is determined by the system.

## Example

# Specify source interface for the FTP client.

```
<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] ftp source-interface Vlan-interface 1
```

### 2.1.11 ftp source-ip

## Syntax

**ftp source-ip** *ip-addr*

**undo ftp source-ip**

## View

System view

## Parameter

*ip-addr*: Source IP address.

## Description

Use the **ftp source-ip** command to specify source IP address for the FTP client. If the *ip-addr* in the command is not an address of the device, your configuration fails.

Use the **undo ftp source-ip** command to clear the source IP address configuration. After that, the source address in the packets sent to the FTP server is determined by the system.

## Example

```
# Specify source IP address for the FTP client.

<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] ftp source-ip 192.168.0.1
```

### 2.1.12 ftp-server source-interface

#### Syntax

```
ftp-server source-interface interface-type interface-number
undo ftp-server source-interface
```

#### View

System view

#### Parameter

*interface-type*: Source interface type.  
*interface-number*: Source interface number.

#### Description

Use the **ftp-server source-interface** command to specify source interface for the FTP server. If you specify a nonexistent interface in the command, your configuration fails. Use the **undo ftp source-interface** command to clear the source interface configuration. After that, the source address in the packets sent to the FTP client is determined by the system.

## Example

```
# Specify source interface for the FTP server.

<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] ftp-server source-interface Vlan-interface 2
```

### 2.1.13 ftp-server source-ip

#### Syntax

```
ftp-server source-ip ip-addr
undo ftp-server source-ip
```

#### View

System view

## Parameter

*ip-addr*: Source IP address.

## Description

Use the **ftp-server source-ip** command to specify source IP address for the FTP server. If the *ip-addr* in the command is not an address of the device, your configuration fails.

Use the **undo ftp-server source-ip** command to clear the source IP address configuration. After that, the source address in the packets sent to the FTP client is determined by the system.

## Example

```
# Specify source IP address for the FTP server.

<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] ftp-server source-ip 192.168.1.1
```

### 2.1.14 sftp source-interface

## Syntax

**sftp source-interface** *interface-type interface-number*  
**undo sftp source-interface**

## View

System view

## Parameter

*interface-type*: Source interface type.

*interface-number*: Source interface number.

## Description

Use the **sftp source-interface** command to specify source interface for the SFTP client. If you specify a nonexistent interface in the command, your configuration fails.

Use the **undo sftp source-interface** command to clear the source interface configuration. After that, the source address in the packets sent to the SFTP server is determined by the system.

## Example

```
# Specify source interface for the SFTP client.

<Quidway> system-view
System View: return to User View with Ctrl+Z.
```

```
[Quidway] sftp source-interface Vlan-interface 2
```

### 2.1.15 sftp source-ip

#### Syntax

**sftp source-ip** *ip-addr*

**undo sftp source-ip**

#### View

System view

#### Parameter

*ip-addr*: Source IP address.

#### Description

Use the **sftp source-ip** command to specify source IP address for the SFTP client. If the *ip-addr* in the command is not an address of the device, your configuration fails.

Use the **undo sftp source-ip** command to clear the source IP address configuration. After that, the source address in the packets sent to the SFTP server is determined by the system.

#### Example

# Specify source IP address for the SFTP client.

```
<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] sftp source-ip 192.168.0.1
```

### 2.1.16 ssh2 source-interface

#### Syntax

**ssh2 source-interface** *interface-type interface-number*

**undo ssh2 source-interface**

#### View

System view

#### Parameter

*interface-type*: Source interface type.

*interface-number*: Source interface number.

## Description

Use the **ssh2 source-interface** command to specify source interface for the SSH2 client. If you specify a nonexistent interface in the command, your configuration fails.  
Use the **undo ssh2 source- interface** command to clear the source interface configuration. After that, the source address in the packets sent to the SSH2 server is determined by the system.

## Example

```
# Specify source interface for the SSH2 client.  
<Quidway> system-view  
System View: return to User View with Ctrl+Z.  
[Quidway] ssh2 source-interface Vlan-interface 1
```

### 2.1.17 ssh2 source-ip

#### Syntax

```
ssh2 source-ip ip-addr  
undo ssh2 source-ip
```

#### View

System view

#### Parameter

*ip-addr*: Source IP address.

## Description

Use the **ssh2 source-ip** command to specify source IP address for the SSH2 client. If the *ip-addr* in the command is not an address of the device, your configuration fails.  
Use the **undo ssh2 source-ip** command to clear the source IP address configuration. After that, the source address in the packets sent to the SSH2 server is determined by the system.

## Example

```
# Specify source IP address for the SSH2 client.  
<Quidway> system-view  
System View: return to User View with Ctrl+Z.  
[Quidway] ssh2 source-ip 192.168.1.1
```

## 2.1.18 ssh-server source-interface

### Syntax

```
ssh-server source-interface interface-type interface-number  
undo ssh-server source-interface
```

### View

System view

### Parameter

*interface-type*: Source interface type.

*interface-number*: Source interface number.

### Description

Use the **ssh-server source-interface** command to specify source interface for the SSH server. If you specify a nonexistent interface in the command, your configuration fails. Use the **undo ssh-server source-interface** command to clear the source interface configuration. After that, the source address in the packets sent to the SSH2 client is determined by the system.

### Example

```
# Specify source interface for the SSH server.  
<Quidway> system-view  
System View: return to User View with Ctrl+Z.  
[Quidway] ssh-server source-interface Vlan-interface 2
```

## 2.1.19 ssh-server source-ip

### Syntax

```
ssh-server source-ip ip-addr  
undo ssh-server source-ip
```

### View

System view

### Parameter

*ip-addr*: Source IP address.

## Description

Use the **ssh-server source-ip ip-addr** command to specify source IP address for the SSH server. If the *ip-addr* in the command is not an address of the device, your configuration fails.

Use the **undo ssh-server source-ip** command to clear the source IP address configuration. After that, the source address in the packets sent to the SSH client is determined by the system.

## Example

```
# Specify source IP address for the SSH server.

<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] ssh-server source-ip 192.168.0.1
```

### 2.1.20 telnet-server source-interface

#### Syntax

**telnet-server source-interface** *interface-type interface-number*  
**undo telnet-server source-interface**

#### View

System view

#### Parameter

*interface-type*: Source interface type.

*interface-number*: Source interface number.

## Description

Use the **telnet-server source-interface interface** command to specify source interface for the Telnet server. If you specify a nonexistent interface in the command, your configuration fails. Use the **undo telnet-server source-interface** command to clear the source interface configuration. After that, the source address in the packets sent to the Telnet client is determined by the system.

## Example

```
# Specify source interface for the Telnet server.

<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] telnet-server source-interface NULL 0
```



## 2.1.21 telnet-server source-ip

### Syntax

**telnet-server source-ip** *ip-addr*

**undo telnet-server source-ip**

### View

System view

### Parameter

*ip-addr*: Source IP address.

### Description

Use the **telnet-server source-ip** command to specify source IP address for the Telnet server. If the *ip-addr* in the command is not an address of the device, your configuration fails.

Use the **undo telnet-server source-ip** command to clear the source IP address configuration. After that, the source address in the packets sent to the Telnet client is determined by the system.

### Example

# Specify source IP address for the Telnet server.

```
<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] telnet-server source-ip 192.168.1.1
```

## 2.1.22 telnet source-interface

### Syntax

telnet **source-interface** *interface-type interface-number*

**undo telnet source-interface**

### View

System view

### Parameter

*interface-type*: Source interface type.

*interface-number*: Source interface number.

## Description

Use the **telnet source-interface** command to specify source interface for the Telnet client. If you specify a nonexistent interface in the command, your configuration fails.

Use the **undo telnet source-interface** command to clear the source interface configuration. After that, the source address in the packets sent to the Telnet server is determined by the system.

## Example

# Specify source interface for the Telnet client.

```
<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] telnet source-interface Vlan-interface 2
```

### 2.1.23 telnet source-ip

## Syntax

**telnet source-ip** *ip-addr*

**undo telnet source-ip**

## View

System view

## Parameter

*ip-addr*: Source IP address.

## Description

Use the **telnet source-ip** command to specify source IP address for the Telnet client. If the *ip-addr* in the command is not an address of the device, your configuration fails.

Use the **undo telnet source-ip** command to clear the source IP address configuration. After that, the source address in the packets sent to the Telnet server is determined by the system.

## Example

# Specify source IP address for the Telnet client.

```
<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] telnet source-ip 192.168.1.1
```

## 2.1.24 tftp tftp-server source-interface

### Syntax

**tftp tftp-server source-interface** *interface-type interface-number*

### View

User view

### Parameter

*tftp-server*: IP address or host name of a TFTP server.

*interface-type*: Source interface type.

*interface-number*: Source interface number.

### Description

Use the **tftp tftp-server source-interface** command to use a specified source interface to establish a connection with a TFTP server. If you specify a nonexistent interface in the command, the command fails.

### Example

# Use a specified source interface to establish a connection with a remote TFTP server.

```
<Quidway> system-view
```

```
System View: return to User View with Ctrl+Z.
```

```
[Quidway] tftp 192.168.8.8 source-interface Vlan-interface 1
```

## 2.1.25 tftp tftp-server source-ip

### Syntax

**tftp tftp-server source-ip** *ip-addr*

### View

User view

### Parameter

*tftp-server*: IP address or host name of TFTP server.

*ip-addr*: Source IP address.

### Description

Use the **tftp tftp-server source-ip** command to use a specified source IP address to establish a connection with a TFTP server.

## Example

# Use a specified source IP address to establish a connection with a remote TFTP server.

```
<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] tftp 192.168.8.8 source-ip 192.168.0.1
```

### 2.1.26 tftp source-interface

#### Syntax

**tftp source-interface** *interface-type interface-number*

#### View

System view

#### Parameter

*interface-type*: Source interface type.

*interface-number*: Source interface number.

#### Description

Use the **tftp source-interface interface** command to specify source interface for the TFTP client. If you specify a nonexistent interface in the command, your configuration fails.

## Example

# Specify source interface for the TFTP client.

```
<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] tftp source-interface Vlan-interface 1
```

### 2.1.27 tftp source-ip

#### Syntax

**tftp source-ip** *ip-addr*  
**undo tftp source-ip**

#### View

System view

#### Parameter

*ip-addr*: Source IP address.

## Description

Use the **tftp source-ip** command to specify source IP address for the TFTP client. If the *ip-addr* in the command is not an address of the device, your configuration fails.

Use the **undo tftp source-ip** command to clear the source IP address configuration. After that, the source address in the packets sent to the TFTP server is determined by the system.

## Example

# Specify source IP address for the TFTP client.

```
<Quidway> system-view
System View: return to User View with Ctrl+Z.
[Quidway] tftp source-ip 192.168.0.1
```