

SX500系列堆叠式交换机上的Traceroute配置

目标

Traceroute发现转发数据包的IP路由。为此，Traceroute将IP数据包发送到目标主机，然后返回到交换机。Traceroute允许用户查看交换机和目标主机之间的每一跳以及到达每个站点的往返时间。此外，Traceroute允许用户测量流经网络的数据包的传输延迟。

在实时场景中，如果用户出现一些连接问题，并且用户需要查找数据包是否传送到目的地时，可以使用Traceroute。如果存在此类问题，Traceroute可以准确指出丢弃数据包的位置。

本文档介绍如何在Sx500系列堆叠式交换机上配置Traceroute。

适用设备

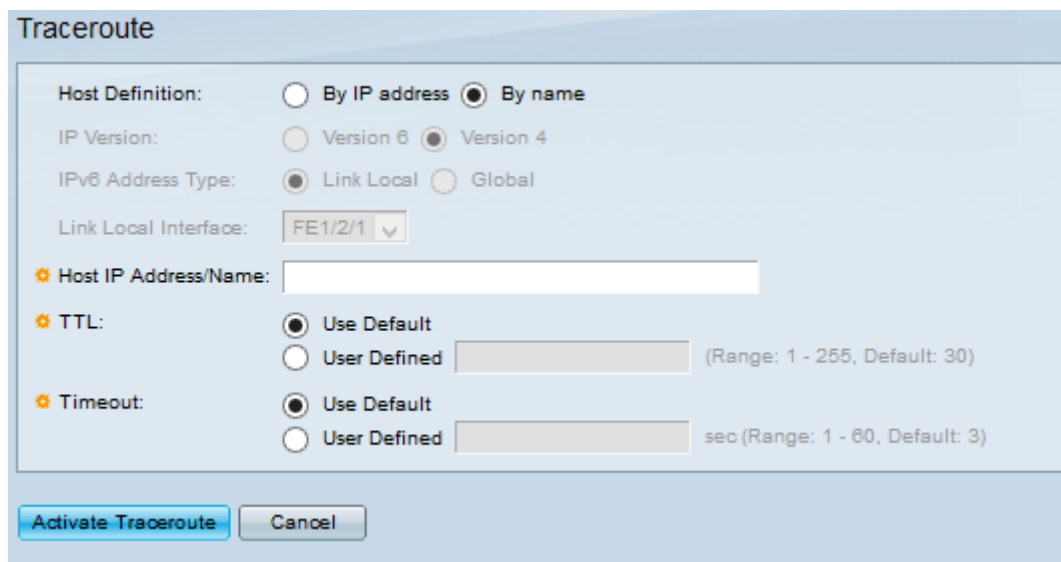
- SX500系列堆叠式交换机

软件版本

- 1.3.0.62

Traceroute配置

步骤1.登录Web配置实用程序，然后选择Administration > Traceroute。此时将打开“Traceroute”页：



The screenshot shows the 'Traceroute' configuration page. It includes the following settings:

- Host Definition:** ☐ By IP address ☒ By name
- IP Version:** ☐ Version 6 ☒ Version 4
- IPv6 Address Type:** ☒ Link Local ☐ Global
- Link Local Interface:** FE1/2/1 (dropdown menu)
- Host IP Address/Name:** (text input field)
- TTL:** ☒ Use Default ☐ User Defined (Range: 1 - 255, Default: 30)
- Timeout:** ☒ Use Default ☐ User Defined (sec (Range: 1 - 60, Default: 3))

At the bottom, there are two buttons: 'Activate Traceroute' and 'Cancel'.

Traceroute

Host Definition: ☒ By IP address ☐ By name

IP Version: ☐ Version 6 ☒ Version 4

IPv6 Address Type: ☐ Link Local ☐ Global

Link Local Interface:

Host IP Address/Name:

TTL: ☐ Use Default ☒ User Defined (Range: 1 - 255, Default: 30)

Timeout: ☐ Use Default ☒ User Defined sec (Range: 1 - 60, Default: 3)

步骤2.在Host Definition字段中点击单选按钮。

- 按IP地址 — 此选项通过主机名搜索主机。
- 按名称 — 此选项通过IP地址搜索主机。

节省时间：如果单击“按名称”，请跳[至步骤6](#)。

Traceroute

Host Definition: ☒ By IP address ☐ By name

IP Version: ☒ Version 6 ☐ Version 4

IPv6 Address Type: ☒ Link Local ☐ Global

Link Local Interface:

Host IP Address/Name:

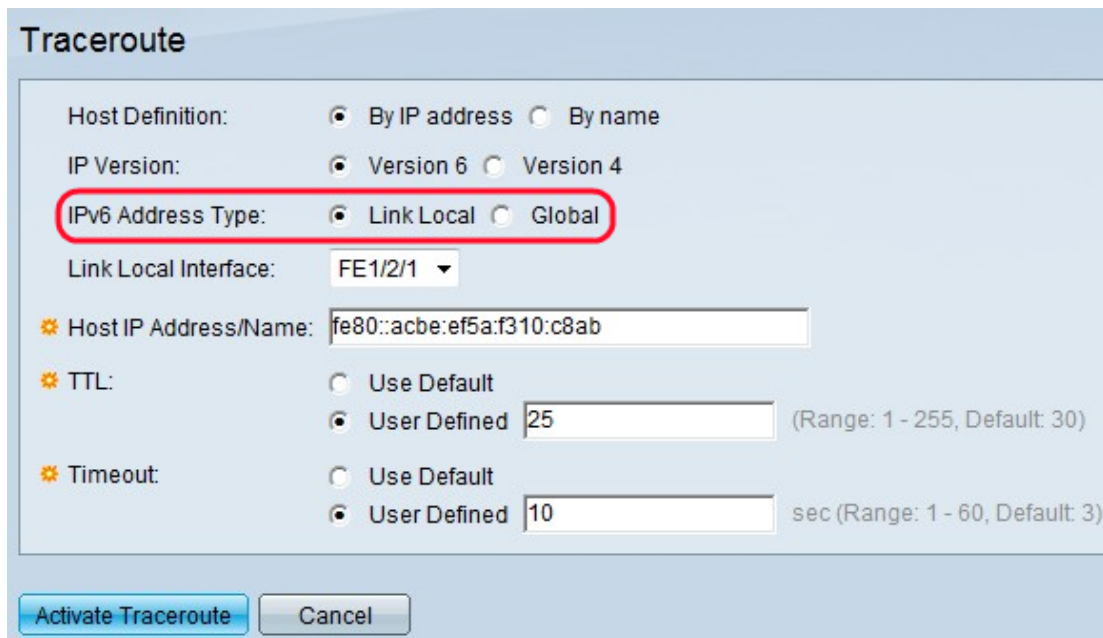
TTL: ☐ Use Default ☒ User Defined (Range: 1 - 255, Default: 30)

Timeout: ☐ Use Default ☒ User Defined sec (Range: 1 - 60, Default: 3)

步骤3.如果主机由IP地址标识，请点击所需的地址类型IPv4或IPv6，以指示将以所选格式输入IP地址。

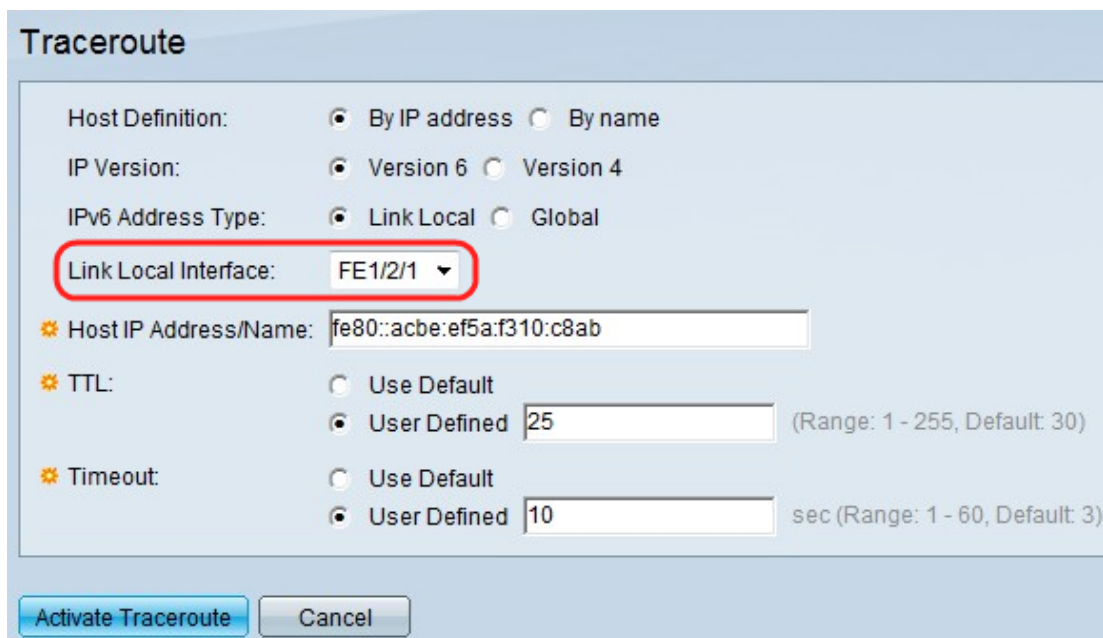
注意：IP第6版仅在交换机上配置了IPv6时可用。请参阅“*IPv6 Interface Configuration on Sx500 Series Stackable Switches (SX500系列堆叠式交换机上的IPv6接口配置)*”。

节省时间：如果单击IPv4，请跳[至步骤6](#)。

The image shows a 'Traceroute' configuration window. It has a title bar 'Traceroute' and a light blue background. The configuration options are as follows: 'Host Definition:' with radio buttons for 'By IP address' (selected) and 'By name'; 'IP Version:' with radio buttons for 'Version 6' (selected) and 'Version 4'; 'IPv6 Address Type:' with radio buttons for 'Link Local' (selected) and 'Global', which is circled in red; 'Link Local Interface:' with a dropdown menu showing 'FE1/2/1'; 'Host IP Address/Name:' with a text field containing 'fe80::acbe:ef5a:f310:c8ab'; 'TTL:' with radio buttons for 'Use Default' and 'User Defined' (selected), with a text field for '25' and a range '(Range: 1 - 255, Default: 30)'; and 'Timeout:' with radio buttons for 'Use Default' and 'User Defined' (selected), with a text field for '10' and a range 'sec (Range: 1 - 60, Default: 3)'. At the bottom are two buttons: 'Activate Traceroute' (highlighted in blue) and 'Cancel'.

步骤4.从IPv6 Address Type (IPv6地址类型) 中点击IPv6地址的类型。选项有：

- 本地链路 — IPv6地址标识单个网络链路上的主机。它仅用于本地网络，不能从WAN路由。
- 全局 — IPv6地址是从其他网络查看和访问的全局单播IPv6类型。

This image is identical to the one above, showing the 'Traceroute' configuration window. In this version, the 'Link Local Interface:' dropdown menu, which currently shows 'FE1/2/1', is circled in red to indicate the next step in the configuration process.

步骤5.如果为IPv6地址类型选择Link Local，请从Link Local Interface下拉列表中选择接收该地址流量的接口。

Traceroute

Host Definition: ☒ By IP address ☐ By name

IP Version: ☐ Version 6 ☒ Version 4

IPv6 Address Type: ☐ Link Local ☐ Global

Link Local Interface:

Host IP Address/Name:

TTL: ☐ Use Default ☒ User Defined (Range: 1 - 255, Default: 30)

Timeout: ☐ Use Default ☒ User Defined sec (Range: 1 - 60, Default: 3)

步骤6.在Host IP Address/Name字段中输入设备的IPv6/IPv4地址或主机名。

Traceroute

Host Definition: ☒ By IP address ☐ By name

IP Version: ☐ Version 6 ☒ Version 4

IPv6 Address Type: ☐ Link Local ☐ Global

Link Local Interface:

Host IP Address/Name:

TTL: ☐ Use Default ☒ User Defined (Range: 1 - 255, Default: 30)

Timeout: ☐ Use Default ☒ User Defined sec (Range: 1 - 60, Default: 3)

步骤7.在生存时间(TTL)字段中点击所需的单选按钮。这用于防止发送的帧进入无尽循环。在到达目的地或到达此值时，traceroute 命令终止。

— 使用默认值 — 使用默认跳数30。

— 用户定义 — 在TTL字段中输入允许的最大跳数。

Traceroute

Host Definition: ☒ By IP address ☐ By name

IP Version: ☐ Version 6 ☒ Version 4

IPv6 Address Type: ☐ Link Local ☐ Global

Link Local Interface:

✱ Host IP Address/Name:

✱ TTL: ☐ Use Default ☒ User Defined (Range: 1 - 255, Default: 30)

✱ Timeout: ☐ Use Default ☒ User Defined sec (Range: 1 - 60, Default: 3)

步骤8.在Timeout字段中点击所需的单选按钮。

— 使用默认值 — 使用默认值3秒。

— 用户定义 — 输入系统在帧被视为丢失之前等待帧返回的时间。

Traceroute

Host Definition: ☒ By IP address ☐ By name

IP Version: ☐ Version 6 ☒ Version 4

IPv6 Address Type: ☐ Link Local ☐ Global

Link Local Interface:

✱ Host IP Address/Name:

✱ TTL: ☐ Use Default ☒ User Defined (Range: 1 - 255, Default: 30)

✱ Timeout: ☐ Use Default ☒ User Defined sec (Range: 1 - 60, Default: 3)

步骤9.单击“激活Traceroute”。