

STUN直接封装配置示例

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简介

本文为串行隧道(STUN)的直接封装提供一个配置示例。[本文档的“验证”和“故障排除”部分中演示了 show stun 命令输出中的相关状态和 debug 命令输出中的状态更改。](#)

虽然debug stun packet和debug stun event命令不应该导致CPU利用率过高， logging buffered命令用于复制输出到日志文件。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息根据与IBM功能的Cisco IOS软件版本12.0(8) STUN配置的。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始(默认)配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

配置

本部分提供有关如何配置本文档所述功能的信息。

注意： 要查找本文档所用命令的其他信息，请使用[命令查找工具](#)（[仅限注册用户](#)）。

网络图

本文档使用以下网络设置：

配置

本文档使用以下配置：

- [Cloclo](#)
- [费尔班克斯](#)

Cloclo

```
cloclo# show run Building configuration... Current
configuration: ! version 12.0 no service pad service
timestamps debug datetime msec service timestamps log
datetime msec no service password-encryption ! hostname
cloclo ! boot system flash rsp-jsv-mz.120-8 logging
buffered 64000 debugging no logging console enable
password cisco ! microcode CIP flash slot0:cip27-3
microcode reload ip subnet-zero no ip domain-lookup ip
cef ! ! stun peer-name 10.10.10.10 stun protocol-group 2
sdlc ! ! ! ! interface Loopback0 ip address 10.10.10.10
255.255.255.0 no ip directed-broadcast ! interface
Serial0/0 no ip address no ip directed-broadcast
encapsulation stun no ip mroute-cache clockrate 9600
stun group 2 stun route address 1 interface Serial0/1 !
interface Serial0/1 ip address 10.2.1.1 255.255.255.0 no
ip directed-broadcast no ip mroute-cache ! !--- Output
suppressed. ! interface Ethernet1/0 ip address 10.1.1.1
255.255.255.0 no ip directed-broadcast no ip mroute-
cache shutdown ! !--- Output suppressed. ! router eigrp
100 network 10.0.0.0 ! ip classless ! ! ! line con 0
exec-timeout 0 0 transport input none line aux 0 line
vty 0 4 password cisco login ! end cloclo#
```

费尔班克斯

```
fairbanks# show run Building configuration... Current
configuration: ! version 12.0 service timestamps debug
datetime msec service timestamps log datetime msec no
service password-encryption ! hostname fairbanks ! boot
system flash logging buffered 64000 debugging no logging
console enable password cisco ! ip subnet-zero ! ! stun
peer-name 10.20.20.20 stun protocol-group 2 sdlc ! ! ! !
interface Loopback0 ip address 10.20.20.20 255.255.255.0
no ip directed-broadcast ! interface Ethernet0 ip
address 10.1.1.2 255.255.255.0 no ip directed-broadcast
shutdown media-type 10BaseT ! interface Ethernet1 ip
address 172.17.240.12 255.255.255.0 no ip directed-
broadcast shutdown media-type 10BaseT ! interface
Serial0 no ip address no ip directed-broadcast
encapsulation stun no ip mroute-cache clockrate 9600
```

```
stun group 2 stun route address 1 interface Serial2 ! !-
-- Output suppressed. ! interface Serial2 ip address
10.2.1.2 255.255.255.0 no ip directed-broadcast
clockrate 19200 ! !--- Output suppressed. ! router eigrp
100 network 10.0.0.0 ! ip classless ! ! ! line con 0
exec-timeout 0 0 transport input none line aux 0 line
vty 0 4 login ! end fairbanks#
```

验证

此部分提供您能使用的，用以确认您的配置正常工作的信息。

[命令输出解释程序工具 \(仅限注册用户\)](#) 支持某些 **show** 命令，使用此工具可以查看对 **show** 命令输出的分析。

两个路由器的 **show stun** 命令输出在此部分显示。它显示每个路由器 STUN 状态是。此外，每次您发出 **show stun** 命令，计数器收到的信息包的 (rx_pkts) 和已传输数据包的 (tx_pkts) 会增加。

```
clclo# show stun This peer: 10.10.10.10 *Serial0/0 (group 2 [sdlc]) state rx_pkts tx_pkts drops
poll 1 IF Serial0/1 open 4510 4513 0 fairbanks# show stun This peer: 10.20.20.20 *Serial0 (group
2 [sdlc]) state rx_pkts tx_pkts drops poll 1 IF Serial2 open 2260 2257 0 fairbanks# show stun
This peer: 10.20.20.20 *Serial0 (group 2 [sdlc]) state rx_pkts tx_pkts drops poll 1 IF Serial2
open 2270 2267 0
```

故障排除

此部分提供您能使用故障排除您的配置的信息。

故障排除命令

[命令输出解释程序工具 \(仅限注册用户\)](#) 支持某些 **show** 命令，使用此工具可以查看对 **show** 命令输出的分析。

注意： 在发出 **debug** 命令之前，请参阅 [有关 Debug 命令的重要信息](#)。

- **debug stun packet** —显示关于游遍 STUN 链路的数据包的信息。
- **debug stun event** —显示 STUN 连接和活动。

调试捕获在 STUN 激活时

```
clclo# show log Syslog logging: enabled (0 messages dropped, 0 flushes, 0 overruns) Console
logging: disabled Monitor logging: level debugging, 0 messages logged Buffer logging: level
debugging, 232 messages logged Trap logging: level informational, 43 message lines logged Log
Buffer (64000 bytes): !--- These timestamped lines each appear on one line in normal output:
*Nov 3 11:35:06.191: %LINK-3-UPDOWN: Interface Serial0/1, changed state to up *Nov 3
11:35:07.191: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1, changed state to up
*Nov 3 11:35:31.819: %LINK-3-UPDOWN: Interface Serial0/0, changed state to up *Nov 3
11:35:32.819: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0, changed state to up
*Nov 3 11:35:36.631: STUN sdlc: 00:04:12 Serial0/0 SDI: (001/008) U: SNRM PF:1 *Nov 3
11:35:37.831: STUN sdlc: 00:00:01 Serial0/0 SDI: (001/008) U: SNRM PF:1 *Nov 3 11:35:37.859:
STUN sdlc: 00:00:00 Serial0/0 NDI: (001/008) U: UA PF:1 *Nov 3 11:35:37.879: STUN sdlc: 00:00:00
Serial0/0 SDI: (001/008) S: RR PF:1 NR:000 *Nov 3 11:35:37.907: STUN sdlc: 00:00:00 Serial0/0
NDI: (001/008) S: RR PF:1 NR:000 *Nov 3 11:35:38.031: STUN sdlc: 00:00:00 Serial0/0 SDI:
(001/008) S: RR PF:1 NR:000 *Nov 3 11:35:38.059: STUN sdlc: 00:00:00 Serial0/0 NDI: (001/008) S:
RR PF:1 NR:000 *Nov 3 11:35:38.091: STUN sdlc: 00:00:00 Serial0/0 SDI: (001/008) I: PF:0 NR:000
```

```
NS:000 *Nov 3 11:35:38.231: STUN sdlc: 00:00:00 Serial0/0 SDI: (001/008) S: RR PF:1 NR:000 *Nov
3 11:35:38.295: STUN sdlc: 00:00:00 Serial0/0 NDI: (001/008) I: PF:1 NR:001 NS:000 *Nov 3
11:35:38.431: STUN sdlc: 00:00:00 Serial0/0 SDI: (001/008) S: RR PF:1 NR:001 *Nov 3
11:35:38.459: STUN sdlc: 00:00:00 Serial0/0 NDI: (001/008) S: RR PF:1 NR:001 *Nov 3
11:35:38.555: STUN sdlc: 00:00:00 Serial0/0 SDI: (001/008) I: PF:0 NR:001 NS:001 *Nov 3
11:35:38.631: STUN sdlc: 00:00:00 Serial0/0 SDI: (001/008) S: RR PF:1 NR:001 *Nov 3
11:35:38.691: STUN sdlc: 00:00:00 Serial0/0 NDI: (001/008) I: PF:1 NR:002 NS:001 *Nov 3
11:35:38.831: STUN sdlc: 00:00:00 Serial0/0 SDI: (001/008) S: RR PF:1 NR:002 *Nov 3
11:35:38.859: STUN sdlc: 00:00:00 Serial0/0 NDI: (001/008) S: RR PF:1 NR:002 *Nov 3
11:35:39.031: STUN sdlc: 00:00:00 Serial0/0 SDI: (001/008) S: RR PF:1 NR:002 *Nov 3
11:35:39.059: STUN sdlc: 00:00:00 Serial0/0 NDI: (001/008) S: RR PF:1 NR:002 *Nov 3
11:35:39.231: STUN sdlc: 00:00:00 Serial0/0 SDI: (001/008) S: RR PF:1 NR:002 *Nov 3
11:35:39.259: STUN sdlc: 00:00:00 Serial0/0 NDI: (001/008) S: RR PF:1 NR:002 *Nov 3
11:35:39.431: STUN sdlc: 00:00:00 Serial0/0 SDI: (001/008) S: RR PF:1 NR:002 *Nov 3
11:35:39.563: STUN sdlc: 00:00:00 Serial0/0 NDI: (001/008) S: RR PF:1 NR:002 cloclclo# fairbanks#
show log Syslog logging: enabled (0 messages dropped, 0 flushes, 0 overruns) Console logging:
disabled Monitor logging: level debugging, 0 messages logged Buffer logging: level debugging,
203 messages logged Trap logging: level informational, 40 message lines logged Log Buffer (64000
bytes): !--- These timestamped lines each appear on one line in normal output: *Nov 3
09:38:12.759: %SYS-5-CONFIG_I: Configured from console by console *Nov 3 09:38:14.231: %LINK-3-
UPDOWN: Interface Serial2, changed state to up *Nov 3 09:38:15.231: %LINEPROTO-5-UPDOWN: Line
protocol on Interface Serial2, changed state to up *Nov 3 09:38:44.687: STUN sdlc: 00:04:41
Serial0 NDI: (001/008) U: SNRM PF:1 *Nov 3 09:38:45.887: STUN sdlc: 00:00:01 Serial0 NDI:
(001/008) U: SNRM PF:1 @ *Nov 3 09:38:45.899: STUN sdlc: 00:00:00 Serial0 SDI: (001/008) U: UA
PF:1 *Nov 3 09:38:45.935: STUN sdlc: 00:00:00 Serial0 NDI: (001/008) S: RR PF:1 NR:000 *Nov 3
09:38:45.947: STUN sdlc: 00:00:00 Serial0 SDI: (001/008) S: RR PF:1 NR:000 *Nov 3 09:38:46.087:
STUN sdlc: 00:00:00 Serial0 NDI: (001/008) S: RR PF:1 NR:000 *Nov 3 09:38:46.099: STUN sdlc:
00:00:00 Serial0 SDI: (001/008) S: RR PF:1 NR:000 *Nov 3 09:38:46.155: STUN sdlc: 00:00:00
Serial0 NDI: (001/008) I: PF:0 NR:000 NS:000 *Nov 3 09:38:46.287: STUN sdlc: 00:00:00 Serial0
NDI: (001/008) S: RR PF:1 NR:000 *Nov 3 09:38:46.323: STUN sdlc: 00:00:00 Serial0 SDI: (001/008)
I: PF:1 NR:001 NS:000 *Nov 3 09:38:46.487: STUN sdlc: 00:00:00 Serial0 NDI: (001/008) S: RR PF:1
NR:001 *Nov 3 09:38:46.499: STUN sdlc: 00:00:00 Serial0 SDI: (001/008) S: RR PF:1 NR:001 *Nov 3
09:38:46.615: STUN sdlc: 00:00:00 Serial0 NDI: (001/008) I: PF:0 NR:001 NS:001 *Nov 3
09:38:46.687: STUN sdlc: 00:00:00 Serial0 NDI: (001/008) S: RR PF:1 NR:001 *Nov 3 09:38:46.719:
STUN sdlc: 00:00:00 Serial0 SDI: (001/008) I: PF:1 NR:002 NS:001 *Nov 3 09:38:46.887: STUN sdlc:
00:00:00 Serial0 NDI: (001/008) S: RR PF:1 NR:002 *Nov 3 09:38:46.899: STUN sdlc: 00:00:00
Serial0 SDI: (001/008) S: RR PF:1 NR:002 *Nov 3 09:38:47.087: STUN sdlc: 00:00:00 Serial0 NDI:
(001/008) S: RR PF:1 NR:002 *Nov 3 09:38:47.099: STUN sdlc: 00:00:00 Serial0 SDI: (001/008) S:
RR PF:1 NR:002 *Nov 3 09:38:47.287: STUN sdlc: 00:00:00 Serial0 NDI: (001/008) S: RR PF:1 NR:002
*Nov 3 09:38:47.299: STUN sdlc: 00:00:00 Serial0 SDI: (001/008) S: RR PF:1 NR:002 fairbanks#
```

相关信息

- [STUN \(序列隧道\)和BSTUN \(块序列隧道\)支持页面](#)
- [工具与资源](#)
- [技术支持 - Cisco Systems](#)