

STUN直接封裝配置示例

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簡介

本檔案將提供序列通道(STUN)直接封裝的組態範例。`show stun`命令輸出的相關狀態和`debug`命令輸出的狀態變更顯示在本檔案的[驗證](#)和[疑難排解](#)一節中。

雖然`debug stun packet`和`debug stun event`命令不應導致CPU使用率過高，但是`logging buffered`命令用於將輸出複製到日誌檔案。

必要條件

需求

本文件沒有特定需求。

採用元件

本檔案中的資訊是根據適用於STUN組態的Cisco IOS®軟體版本12.0(8)搭載IBM功能。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

慣例

如需文件慣例的詳細資訊，請參閱[思科技術提示慣例](#)。

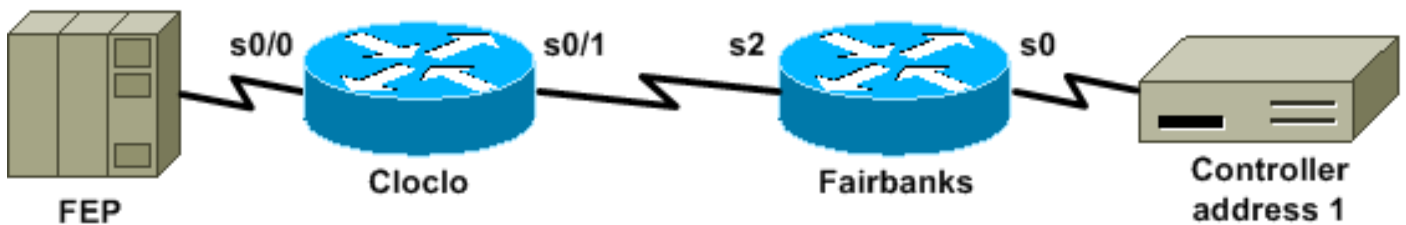
設定

本節提供用於設定本文中所述功能的資訊。

注意：要查詢有關本文檔中使用的命令的其他資訊，請使用[命令查詢工具](#)([僅限註冊客戶](#))。

網路圖表

本檔案會使用以下網路設定：



組態

本檔案會使用以下設定：

- [克洛克洛](#)
- [費爾班克斯](#)

克洛克洛

```
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#
```

費爾班克斯

```
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#

```

驗證

本節提供的資訊可用於確認您的組態是否正常運作。

[輸出直譯器工具](#) (僅供註冊客戶使用) 支援某些 **show** 命令，此工具可讓您檢視 **show** 命令輸出的分析。

本部分同時顯示兩台路由器的 **show stun** 命令輸出。它顯示每台路由器的 STUN 狀態是 `open`。此外，每次發出 **show stun** 命令時，接收封包 (`rx_pkts`) 和傳輸封包 (`tx_pkts`) 的計數器都會增加。

```
cloclo# 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	

疑難排解

本節提供的資訊可用於對組態進行疑難排解。

疑難排解指令

[輸出直譯器工具](#)(僅供註冊客戶使用)支援某些show命令，此工具可讓您檢視show命令輸出的分析。

注意：發出debug命令之前，請參閱[有關Debug命令的重要資訊](#)。

- [debug stun packet](#) — 顯示有關通過STUN鏈路傳輸的資料包的資訊。
- [debug stun event](#) — 顯示STUN連線和活動。

STUN啟用期間的調試捕獲

```
cloclo# 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 cloclo#
```

```
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#

相關資訊

- [STUN \(序列通道 \) 和BSTUN \(封鎖序列通道 \) 支援頁面](#)
- [工具與資源](#)
- [技術支援 - Cisco Systems](#)