

替换 Cisco Catalyst 6500 虚拟交换系统 1440 中的 Supervisor 模块

目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[规则](#)

[配置](#)

[网络图](#)

[安装和配置新的 Supervisor](#)

[验证](#)

[故障排除](#)

[Supervisor 引擎之间的软件不匹配](#)

[相关信息](#)

简介

本文提供一个逐步程序替换在思科Catalyst 6500虚拟交换系统的一个坏Supervisor。

虚拟交换系统(VSS)包括两个Catalyst 6500机箱。每个机箱配备有单个Supervisor引擎。如果其中一个Supervisor中断由于硬件故障，附有默认配置的替换Supervisor不自动地变为VSS成员。这个新的Supervisor最初在独立模式下启动，然后要求进行VSS配置以便在VSS模式下启动。

先决条件

要求

尝试进行此配置之前，请确保满足以下要求：

- 将主用 VSS Supervisor 中的有效映像复制到微型闪存设备中。
- 将主用 VSS 配置复制到微型闪存设备中（可为同一设备）。

使用的组件

本文档中的信息基于以下软件和硬件版本：

在Cisco IOS软件版本12.2(33)SXH1的Cisco Catalyst 6500虚拟交换系统1440或以上

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。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： 使用 [命令查找工具](#) ([仅限注册用户](#)) 可获取有关本部分所使用命令的详细信息。

新的 Supervisor 要求使用有效的映像和配置启动。可通过 TFTP 或微型闪存设备复制映像。如果没有微型闪存设备，也可通过 TFTP 复制软件映像和配置文件。

1. 将主用 VSS Supervisor 中的有效映像复制到微型闪存设备中。

```
VSS#dir sup-bootdisk:
Directory of sup-bootdisk:/ 1 -rwx 117668516 Jan 22 2008 11:53:58 +00:00 s72033-
ipservices_wan-vz.122-33.SXH1 2 -rwx 33554432 Aug 16 2007 12:40:22 +00:00 sea_log.dat 3 -
rwx 7366 Aug 22 2007 20:05:42 +00:00 default-config
```

 请注意，在 VSS 模式下，主用 Supervisor 和备用 Supervisor 运行的软件映像版本相同。

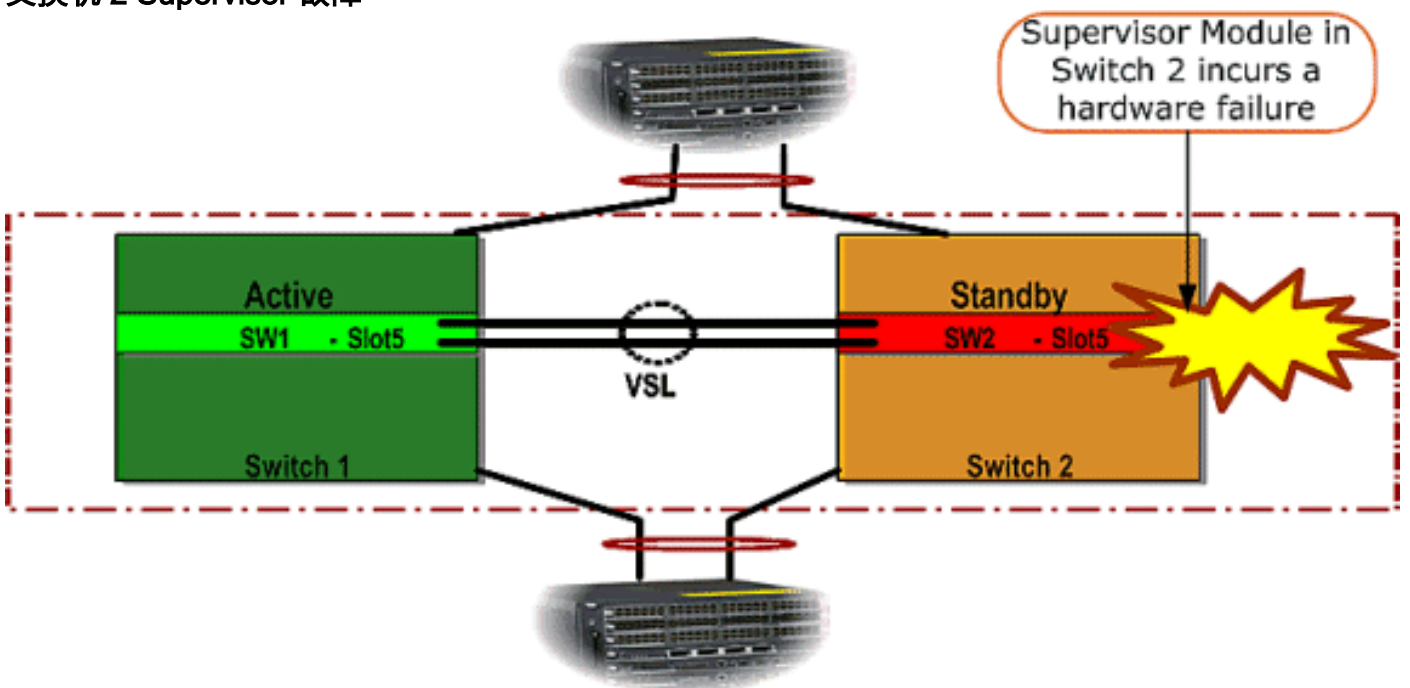
```
VSS#copy sup-bootdisk:s72033-
ipservices_wan-vz.122-33.SXH1 disk0: Destination filename [s72033-ipser
vices_wan-vz.122-33.SXH1]? Copy in progress...CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC !--- Output suppressed.
```
2. 将主用 VSS Supervisor 中的当前配置复制到微型闪存设备中。

```
VSS#copy running-config disk0:
Destination filename [startup-config]? <VSS.cfg> 11196 bytes copied in 0.712 secs (15725
bytes/sec)
```

网络图

本文档使用以下网络设置：

交换机 2 Supervisor 故障



dictate the state (active vs. standby) of the supervisor. Router#switch set switch_num 2
local Set rommon's switch_num to 2 *!--- Verify the Switch_ID configuration on the new supervisor.* Router#switch read switch_num local Read switch_num from Active rommon is 2

6. 重新加载交换机，以便在重新加载时，交换机以 VSS 模式启动。**警告：**此时不要将 running-config 保存为 startup-config。如果这样做，startup-config 将被默认配置覆盖，从而无法在 VSS 模式下启动交换机。**CLI 输出示例：**

```
Router# reload System configuration has been modified. Save? [yes/no]: no Proceed with
reload? [confirm] 00:25:07: %SYS-5-RELOAD: Reload requested by console. Reload Reason:
Reload Command. 00:26:49: %SYS-SP-3-LOGGER_FLUSHING: System pausing to ensure console
debugging output. 00:26:49: %OIR-SP-6-CONSOLE: Changing console ownership to switch
processor !--- Output omitted !--- SP booting up, pay attention to the name of the image
being loaded by SP System Bootstrap, Version 8.5(1) Copyright (c) 1994-2006 by cisco
Systems, Inc. Cat6k-Sup720/SP processor with 1048576 Kbytes of main memory Autoboot
executing command: " boot system flash sup-bootflash:s72033-ipserVICES_wan-vz.122-33.SXH1"
Loading image, please wait ... Initializing ATA monitor library... Self decompressing the
image : #####
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Inc. 170 West Tasman Drive San Jose, California 95134-1706 Cisco IOS Software, s72033_sp
Software (s72033_sp-IPSERVICES_WAN-VM), Version 12.2(33)SXH1, RELEASE SOFTWARE (fc3)
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Systems, Inc. Compiled Thu 17-Jan-08 04:38 by prod_rel_team Image text-base: 0x01020150,
data-base: 0x01021000 !--- VSS configuration pre-parsed during bootup System detected
Virtual Switch configuration... Interface TenGigabitEthernet 2/8/4 is member of Portchannel
2 !--- output omitted Initializing as Virtual Switch STANDBY processor !--- VSL module (
supervisor in this scenario) brought up and role is resolved as standby since there is
already a active VSS switch. 00:00:30: %VSL_BRINGUP-6-MODULE_UP: VSL module in slot 8
switch 2 brought up 00:00:57: %VSLP-5-VSL_UP: Ready for Role Resolution with Switch=1,
MAC=0014.1bc6.1c00 over 8/4 00:01:01: %VSLP-5-RRP_ROLE_RESOLVED: Role resolved as STANDBY
by VSLP 00:01:01: %VSL-5-VSL_CNTRL_LINK: New VSL Control Link 8/4 !--- RP is booting up
System Bootstrap, Version 12.2(17r)SX5, RELEASE SOFTWARE (fc1) Technical Support:
http://www.cisco.com/techsupport Copyright (c) 2006 by cisco Systems, Inc. Cat6k-Sup720/RP
platform with 1048576 Kbytes of main memory Download Start
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Thu 17-Jan-08 04:04 by prod_rel_team Image text-base: 0x01020150, data-base: 0x01021000 !---
output omitted Press RETURN to get started! !--- Look out for -- "%PFREDUN-SW2_SPSTBY-6-
STANDBY: Initializing for SSO mode" in the active console to make sure stadby is running in
SSO mode. !--- After standby boots up it's console is locked VSS-sdby> Standby console
disabled VSS-sdby> Standby console disabled 注意：为了配置在多个子网的VSS，备用配置在
VSS没有必要。网关路由器应该设置作为VLAN SVI。
```

验证

当前没有可用于此配置的验证过程。

命令输出解释程序 ([仅限注册用户](#)) (OIT) 支持某些 show 命令。使用 OIT 可查看对 show 命令输出的分析。

[故障排除](#)

本部分提供的信息可用于对配置进行故障排除。

[Supervisor 引擎之间的软件不匹配](#)

如果有Supervisor引擎之间的—软件不匹配， standby Supervisor在RPR冗余模式出现(不在SSO冗余模式)，并且VSS不充分地初始化。

要解决此问题，请确保备用 Supervisor 的闪存中存在所需的软件，而且启动语句指向正确的软件。重新加载备用 Supervisor，以使该 Supervisor 通过正确的软件启动并加入 VSS。

[相关信息](#)

- [Cisco Catalyst 6500 虚拟交换系统 1440](#)
- [LAN 产品支持](#)
- [LAN 交换技术支持](#)
- [技术支持和文档 - Cisco Systems](#)