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The process of replacing a failed master switch in the Cisco 3750 1 switch stack. Updating or downgrading software to replace the switch to fit the rest of the Switch stack Version iOS works on the switch must fit other switches in the stack accurately. IOS images used on CHPC switches can be found on the TFTP server, megatron.chpc.utah.edu/tftpboot/images/cisco. To see which version works on one of the functional switches, use the show version: delicate_stack2 show version cisco IOS Software, C3750 Software (C3750-IPBASE9-M), Version 12.2 (44)SE, RELEASE SOFTWARE (fc1) Copyright (c) 1986-2008 Cisco Systems, Inc. Compiled Sat 05-Jan-08 00:29 by Weiliu Image Text Base: 0x00003000, Database: 0x01440000 ROM: Bootstrap program C3750 Boot BOOTDR Boot: C3750 Loader Loader (C3750-HBOOT-M) Version 12.2 2 (25)SEC, RELEASE SOFTWARE (fc4) delicate_stack2 downtime is 3 hours, 17 minutes The system returned to the ROM power system restarted at 09:31:25 MDT Fri June 25 2010 File image system flash:c3750-ibase9-mz.122-44.SE/c3750-ibase9-mz.122-44.SE.bin... (exit omitted). ... A string of System File images ... show the name of the image you want to use. Find this image title (with a tar in it) either on the megatron or on the Cisco website. Once you've determined which version of IOS to use, connect the switch to the network using the IP address that's available (such as the mori address). To do this, lift the VLAN interface to VLAN1 and connect the switch to the network. VLAN1 is used because all the ports to replace the switch will already be in that VLAN, and all you have to do is find the port on the network and connect. Also, turn off the covering tree to speed up the nurturing link. (config) int vlan 1 (config-if) ip-address 172.30.2.209 255.255.0.0 (config-if) is not closed (config-if) exit (config) not span vian 1 Make sure What you can ping out: delicate_stack2 (config)#do ping 172.30.0.1 Type of escape sequence break. Sending 5, 100-byte ICMP Echos to 172.30.0.1, time out is 2 seconds: !!!!! The success rate is 100 percent (5/5), round-trip times / avg/ max 1/203/1006 ms Also make sure you can ping megatron: delicate_stack2 (config)#do ping 155.101.3.209 Type escape sequences abort. Dispatch 5, 100-byte ICMP Echos to 155.101.3.209, time out is 2 seconds: !!!!! The success rate is 100 percent (5/5), en route min/Avg/max 1/203/1006 ms Next, update the interchangeable switch with the help of the archive command from the privileged exec mode: delicate_stack2 the download-sw archive ftp://155.101.3.109/images/cisco/3750/c3750-ibase9-tar.122-44.SE.tar 2. Change the replacement switch number to 1 First, find out what the replacement number is delicate_stack2#sh Switch/Mac Stack Address: 0017.5a33.f180 H/W Current Switch Switch Mac Address Priority Version State ----- No. 2 Member 0016.9dba.9800 14 0 Ready This Switch number 2 (config) switch 2 renumber 1 You will be asked to confirm the change and then get a message about the restart of the switch. Reboot the switch and continue step 3 below. 3. Changing the priority of the Switch Master Switch in the stack is one with the highest priority. To make sure this new switch becomes a master, make it a priority the same or higher than a failed switch. If you don't remember what is the priority of the failed switch, just run the switch show on one of the remaining functional switches and make sure the priority you assign to replace the master switch is higher than the priority for the slave switches. Set a priority like this: (config) #switch 1 priority is the priority of the 4th. Turn off the entire stack and disable the failed master switch Entire stack will lose its configuration when you replace the main switch. That's ok because we regularly back up time for our configs, right? Make sure to mark the pattern as the cables connect so that you can connect them to the new switch in the same way. 5. Connect the new master switch and power stack to plug everything up. Make sure to use a screwdriver to tighten the stacking cables, as they have fairly small vessels. 6. Set up uplink ports and assign an IP address to the main switch to restore the backup configuration you will have to gain some access to the network running on the switch. This will usually mean setting up the port channel and setting up some VLANs. Check the configuration on the remaining functional switches in the stack to see which VLANs to use, etc. 7. Pull down the backup configuration from the TFTP server delicate_stack2 a copy of the tftp to run and follow the clues to the TFTP server and file name. Once the configuration is finished copying, everything should be up. 8. Check the styling to make sure the stack is set up as expected. Use the switch show and make sure that Switch 1 is a master: delicate_stack2 show switch switch/mac stack Address: 0017.5a33.f180 H/W Current Switch Role Mac Address Priority Version Of State ----- No 1 Master 0017.5a 33.f1 80 15 0 Ready 2 Member 0016.9dba.9800 14 0 Ready 3 Member 0024.5038.e200 13 0 Ready To Make sure to save the configuration before leaving: building configuration delicate_stack2 wr... (OK) The process of replacing a failed slave switch in the switch stack c3750 1. Upgrade or downgrade the replaceable switch, to match the rest of the switch stack, the IOS version launched on the switch must match the other switches in the stack. IOS images used on CHPC switches can be found on the TFTP server, megatron.chpc.utah.edu/tftpboot/images/cisco. To see which version works on one of the functional switches, use the show version: delicate_stack2 show version cisco IOS Software, C3750 Software (C3750-IPBASE9-M), Version 12.2 (44)SE, RELEASE SOFTWARE (fc1) Copyright (c) 1986-2008 Cisco Systems, Inc. Compiled Sat 05-Jan-08 00:29 by Weiliu Image Text Base: 0x00003000, Database: 0x01440000 ROM: Bootstrap program C3750 Boot BOOTDR Boot: C3750 Loader Loader (C3750-HBOOT-M) Version 12.2 2 (25)SEC, RELEASE SOFTWARE (fc4) delicate_stack2 downtime is 3 hours, 17 minutes The system returned to the ROM power system restarted at 09:31:25 MDT Fri June 25 2010 File image system flash:c3750-ibase9-mz.122-44.SE/c3750-ibase9-mz.122-44.SE.bin... (exit omitted). ... A string of System File images ... show the name of the image you want to use. Find this image title (with a tar in it) either on the megatron or on the Cisco website. Once you've determined which version of IOS to use, connect the switch to the network using the IP address that's available (such as the mori address). To do this, lift the VLAN interface to VLAN1 and connect the switch to the network. VLAN1 is used because all the ports to replace the switch will already be in that VLAN, and all you have to do is find the port on the network and connect. Also, turn off the covering tree to speed up the nurturing link. (config) int vlan 1 (config-if) ip-address 172.30.2.209 255.255.0.0 (config-if) is not closed (config-if) exit (config) not span vian 1 Make sure What you can ping out: delicate_stack2 (config)#do ping 172.30.0.1 Type of escape sequence break. Sending 5, 100-byte ICMP Echos to 172.30.0.1, time out is 2 seconds: !!!!! The success rate is 100 percent (5/5), round-trip times / avg/ max 1/203/1006 ms Also make sure you can ping megatron: delicate_stack2 (config)#do ping 155.101.3.209 Type escape sequences abort. Dispatch 5, 100-byte ICMP Echos to 155.101.3.209, time out is 2 seconds: !!!!! The success rate is 100 percent (5/5), en route min/Avg/max 1/203/1006 ms Next, update the interchangeable switch with the help of the archive command from the privileged exec mode: delicate_stack2 the download-sw archive ftp://155.101.3.109/images/cisco/3750/c3750-ibase9-tar.122-44.SE.tar 2. Change the switch number to match regardless of the failed switch number was first, figuring out what the current number of switch replacements: delicate_stack2#sh switch switch/stack Address: 0017.5a33.f180 H/W Current Switch Role Mac Address Priority State State No 2 Member 0016.9dba.9800 14 0 Ready Number of this switch is 2 (config) switch 2 renumbers. Reboot the switch and continue step 3 below. 3. Changing the priority of the Switch Master Switch in the stack is one with the highest priority. To make sure that this new switch doesn't become a master, make it a priority lower than the master switch. You can run the show switch on the main switch to see what the current priorities are of the other switches in the stack. Set a priority like this: (Config) #switch 1 priority is the priority. Turn off the failed switch and disconnect it from the stack Other switches in the stack can stay away and pass traffic until you remove that switch. Make sure you mark the position of stacking the cables. 5. Plug in the new switch and turn it all up. Make sure to use a screwdriver to tighten the stacking cables, as they have fairly small vessels. 6. Check the styling to make sure the stack is set up as expected. Use the switch show and make sure that Switch 1 is a master: delicate_stack2 show switch switch/mac stack Address : 0017.5a33.f180 H/W Current Switch Role Mac Address Priority Version Of State ----- No 1 Master 0017.5a 33.f1 80 15 0 Ready 2 Member 0016.9dba.9800 14 0 Ready 3 Member 0024.5038.e200 13 0 Ready To Make sure to save the configuration before leaving: building configuration delicate_stack2 wr... (OK) Other Notes Find serial number on Switch Using show inventory you can get serial number information from all switches in the stack: delicate_stack2 show inventory NAME: 1, DESCR: WS-C3750G-24T PID: WS-C3750G-24T-S, VID: V07, SN: F001248X3LN Backup configuration on the TFTP server When you finish replacing everything, do back up on the CHPC server at megatron.chpc.utah.edu. Create a megatron catalog in tftpboot/configs with a current date, in YYYY-MM-DD format. Usecopy run tftp to do this: delicate_stack2-copy ftp://155.101.3.109/configs/2010-06-25/delicate-stack2 Help from 3750+Stacking+configuration+notes+and+processes Cisco StackWise and StackWise Plus technologyCreate and manage the Catalyst 3750 Switch Stacks more Cisco-related Switch Tips: How to choose a power source for the Catalyst 3750-X Series and Cisco 3560-X Switch? Cisco Catalyst 3850 Series- The industry's first fixed, Stackable GE switch more popular themes related to Cisco Catalyst 2960-S FlexStack FlexStack

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