Click to verify

This document provides the step-by-step procedures to prepare, perform, and verify an upgrade or downgrade of the Fabric OS firmware.View AllThis topic provides an overview of the procedures you must perform to complete a firmware upgrade or downgrade.View AllUpgrading and Downgrading FirmwareIn this document, upgrading means installing a newer version of firmware than the one that is running; alternatively, downgrading means installing an older firmware version. View AllThis topic provides steps to perform the following tasks:View AllThe revision history provides a list of the important changes made in each version of the document.View AllDocumentation Legal NoticeThis notice provides copyright and trademark information as well as legal disclaimers. View All Applies to SAN Brocade Fibre Channel switches FlexPod Upgrading/downgrading firmware on a Brocade switch. This procedure does not apply to fabric-attached MetroCluster. Notes: This procedure requires an FTP service running on a Windows or UNIX workstation. Microsoft IIS is tested and supported by Brocade. For older versions of Fabric OS, a stepped upgrade may be required. See the Supported Upgrade Paths section on Brocade® Fabric OS® Software Upgrade Guide for target version. Example: v7.4.x —> v8.0.x —> v8.1.x How to obtain Brocade Fabric OS from NetApp Backup the configuration via the configupload command and collecting a supportsave. Make sure if TruFOS certificate can be bypassed while performing an upgrade by refer to Brocade TruFOS Certificates section on Brocade® Fabric OS® Software Upgrade Guide. Upgrade the switch using one of the below mentioned methods, using SANnav or CLI- Using SANnav, refer- Upgrading Brocade switch using SANnav Using CLI/SSH , follow the below steps: Verify that the workstation can ping the Brocade switch Locate the extracted firmware directory structure in ftproot Run the firmwaredownload command on the brocade switch. Firmware update can be done through the CLI or the web interface Provide the workstation IP address Login as anonymous or a valid FTP user Provide the path to the firmware directory relative to the ftproot and type release.plist. Example: For v8.4.0, the path is as follows: fw/v8.4.0/release.plist Note: The release.plist file is not listed in the root of the firmware directory (/fw/v8.4.0), but the firmware will use the appropriate release.plist file in the child directory, based on its switch type. Switch will update the secondary firmware, reboot, update the primary, then reboot for the final time. Once completed, confirm by typing version and firmwareshow. NetApp provides no representations or warranties regarding the accuracy or reliability or serviceability of any information or recommendations provided in this publication or with respect to any results that may be obtained by the use of the information or observance of any recommendations provided herein. The information in this document is distributed AS IS and the use of this information or the implementation of any recommendations or techniques herein is a customer's responsibility and depends on the customer's ability to evaluate and integrate them into the customer's operational environment. This document and the information contained herein may be used solely in connection with the NetApp products discussed in this document. The following table provides details on supported upgrade paths and steps for upgrading through multiple versions of software. For the specific versions, refer to the corresponding version of the release notes. Supported Upgrade Paths to v9.1.x Current Version Upgrade to with a valid Brocade TruFOS Certificate. This is a nondisruptive direct upgrade. Upgrade to 9.0.x, and then upgrade to the 9.1.x version with a valid TruFOS Certificate. This is a nondisruptive upgrade. v9.1.x supports the following link modes: The G730 Switch supports only the 1000BASE-T/Full link mode. In this post I will show you how to Upgrade the Brocade Switches Firmware. Requirements: Filezilla FTP Server (or similar) Filezilla FTP Client (or similar) Putty Java JRE (the version will depend of the Switch Brocade. Probably you will need version 7) Log on credential for Brocade website or vendor website Downloaded upgrade firmware. Read the Release Notes because you might need more than one firmware Let's start with the Upgrade Paths and then with the procedures. If you have many steps to upgrade, you should upgrade to the latest in the series (or if it’s very new, probably it's safest to go with the second newest. Just check the release notes of the newest to make sure nothing related is fixed); What I usually recommend is this path (non disruptive): 5.0.1d --> 5.2.3 --> 5.3.2c --> 6.0.0b or 6.0.1a --> 6.1.2c --> 6.2.2g --> 6.3.2e --> 6.4.3h --> 7.0.2e --> 7.1.2b --> 7.2.1g --> 7.3.2a --> 7.4.2 --> 8.0.1 or 8.0.2b --> 8.1.1a Upgrade from a version earlier than 6.4.1b to 7.0.x or from 7.0.x to 7.2.x is possible but disruptively; If the switch is on 5.1.x you can go directly to 5.3.x; Fabric OS 6.2.2f is allowed only from Fabric OS 6.1.0a or later Sometimes you have to use the firmwaredownload -s switch to Upgrade; You could in principle also say that: 2G cannot upgrade to Fabric OS 6.x 4G and 8G can be on Fabric OS 6.x All 4G except some HP’s P and C-class 4G blade switches (4012 & 4024) can run 6.4.x 8G can run Fabric OS 6.4.x 8G and above can run Fabric OS 7.x 16G (Gen5) needs to be on Fabric OS 7.x or Fabric OS 8.x 32G (Gen6) needs Fabric OS 8.x Upgrading to Fabric OS 7.1.2 can be non-disruptively upgraded from 7.0.x and 7.1.x with caveats: For example, any previously existing error log entries with FOS v7.1.0 will be permanently lost once upgraded to FOS v7.1.2; Upgrading to Fabric OS 7.2.x can be done non-disruptively from 7.1.x. Disruptively from 7.0.x is supported; Upgrading to Fabric OS 7.3.x can be done non-disruptively from 7.2.x. Disruptively from 7.1.x is supported; Upgrading to Fabric OS 7.4.x can be done non-disruptively from 7.3.x. From 6.4.x with firmwarecleaninstall switch; Upgrading to Fabric OS 8.1.x can be done non-disruptively from Brocade platform running 8.0.2 or later. From 7.4.x disruptively with "firmwaredownload -s" A disruptive upgrade means that all ports will go offline/online during upgrade. Step 1: Turn off firewall. Turn off firewall on Windows machine where you will install Filezilla FTP server. Step 2: Configure FTP server Download Filezilla FTP server for windows here. Install Filezilla FTP server. Just run the installer GUI and accept the defaults. You may find there are third party software embedded with Filezilla, decline first two and then click next to install FTP server. Once installed. Click Edit, Click Settings. Select following. Setup timed out value to 9999. Enable logging, so that you can see brocade is connecting to FTP server: Create an anonymous user account and set password to none / "blank": Set shared folder location and click "Set as home dir": Actual location of firmware in my PC. Don't forget to unzip all the files: Step 3: Test FTP connectivity Now install Filezilla client and test connectivity. You can download it here. Step 4: Upgrade Firmware in Switch Brocade Open Putty, Type IP address of the brocade switch. leave the default port 22. Log on to brocade fabric using root or another admin and enter the credentials and type the following: firmwaredownload IP address: IP address of your PC where you configured Filezilla FTP server Username: blank or Hit enter I am using anonymous FTP. No need to type username Path: /v7.1.2b or the path where you saved firmware Password: blank Hit enter I am using anonymous FTP. No need to type password Do you want to continue? [y/n]: y Close putty session now. This procedure will reboot the Brocade switch and you are done. Once Brocade Fabric is rebooted, reconnect using putty, log on and type the command to see the current version of firmware: If you would like to upgrade from v7.1.2b to v7.3.0c directly use the following command (This is a disruptive upgrade procedure): firmwareDownload -s IP address: IP address of your PC where you configured Filezilla FTP server Username: blank or Hit enter I am using anonymous FTP. No need to type username Path: /v7.3.0c or the path where you saved firmware Password: blank Hit enter I am using anonymous FTP. No need to type password Do you want to continue? [y/n]: y Do Auto-Commit after Reboot [Y]: y Reboot system after download [N]: y Firmware is being downloaded to the switch. This step may take up to 30-45 minutes to complete. Have a drink and relax. That's it! Thanks for reading. See you next time! Applies to SAN Brocade Fibre Channel switches FlexPod Upgrading/downgrading firmware on a Brocade switch. This procedure does not apply to fabric-attached MetroCluster. Notes: This procedure requires an FTP service running on a Windows or UNIX workstation. Microsoft IIS is tested and supported by Brocade. For older versions of Fabric OS, a stepped upgrade may be required. See the Supported Upgrade Paths section on Brocade® Fabric OS® Software Upgrade Guide for target version. Example: v7.4.x —> v8.0.x —> v8.1.x How to obtain Brocade Fabric OS from NetApp Backup the configuration via the configupload command and collecting a supportsave. Make sure if TruFOS certificate can be bypassed while performing an upgrade by refer to Brocade TruFOS Certificates section on Brocade® Fabric OS® Software Upgrade Guide. 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