

Brocade SAN Switch Firmware Upgrade/Downgrade procedure

Step 1:- (Collect the logs from SAN switch)

SW1:root> supportsave

This command will collect RASLOG, TRACE, supportShow, core file, FFDC data and other support information and then transfer them to a FTP/SCP server or a USB device. This operation can take several minutes.

NOTE: supportSave will transfer existing trace dump file first, then automatically generate and transfer latest one. There will be two trace dump files transferred after this command.

OK to proceed? (yes, y, no, n): [no] yes

Host IP or Host Name: 172.19.239.59 <ftp server IP>

User Name: root

Password:

Protocol (ftp or scp): ftp

Remote Directory: tmp1

Saving support information for switch:SW1, module:CONSOLE0...

/tmp/supportSave_files/SW1-S0-200811150918-CONSOLE0.gz:

...-S0-200811150918-CONSOLE0.gz: ETA: 0:00 1.46/ 1.46 kB 3.30 MB/s

...-S0-200811150918-CONSOLE0.gz: ETA: 0:00 1.46/ 1.46 kB 42.34 kB/s

...supportSave_files/SW1-S0-200811150918-CONSOLE0.gz: 1.46 kB 42.34 kB/s

...supportSave_files/SW1-S0-200811150918-CONSOLE0.gz: 1.46 kB 42.34 kB/s

Saving support information for switch:SW1, module:RASLOG...

/tmp/supportSave_files/SW1-S0-200811150918-RASLOG.ss.gz:

...S0-200811150918-RASLOG.ss.gz: ETA: 0:00 24.24/ 24.24 kB 27.02 MB/s

...S0-200811150918-RASLOG.ss.gz: ETA: 0:00 24.24/ 24.24 kB 719.41 kB/s

...upportSave_files/SW1-S0-200811150918-RASLOG.ss.gz: 24.24 kB 719.41 kB/s

...upportSave_files/SW1-S0-200811150918-RASLOG.ss.gz: 24.24 kB 719.41 kB/s

...0-200811150920-ISCSID_DBG.gz: ETA: 0:00 87.00/ 87.00 B 208.24 kB/s

...0-200811150920-ISCSID_DBG.gz: ETA: 0:00 87.00/ 87.00 B 2.72 kB/s

...ppportSave_files/SW1-S0-200811150920-ISCSID_DBG.gz: 87.00 B 2.72 kB/s
...ppportSave_files/SW1-S0-200811150920-ISCSID_DBG.gz: 87.00 B 2.72 kB/s

Saving support information for switch:SW1, module:CH...

/tmp/supportSave_files/SW1-S0-200811150920-CH.gz:
...es/SW1-S0-200811150920-CH.gz: ETA: 0:00 431.00/431.00 B 1.05 MB/s
...es/SW1-S0-200811150920-CH.gz: ETA: 0:00 431.00/431.00 B 12.40 kB/s
/tmp/supportSave_files/SW1-S0-200811150920-CH.gz: 431.00 B 12.40 kB/s
/tmp/supportSave_files/SW1-S0-200811150920-CH.gz: 431.00 B 12.40 kB/s

Saving support information for switch:SW1, module:AGDUMP...

/tmp/supportSave_files/SW1-S0-200811150920-AGDUMP.ss.gz:
...S0-200811150920-AGDUMP.ss.gz: ETA: 0:00 110.00/110.00 B 237.66 kB/s
...S0-200811150920-AGDUMP.ss.gz: ETA: 0:00 110.00/110.00 B 3.23 kB/s
...upportSave_files/SW1-S0-200811150920-AGDUMP.ss.gz: 110.00 B 3.23 kB/s
...upportSave_files/SW1-S0-200811150920-AGDUMP.ss.gz: 110.00 B 3.23 kB/s

Saving support information for switch:SW1, module:CONSOLE1...

/tmp/supportSave_files/SW1-S0-200811150920-CONSOLE1.gz:
...-S0-200811150920-CONSOLE1.gz: ETA: 0:00 1.46/ 1.46 kB 1.77 MB/s
...-S0-200811150920-CONSOLE1.gz: ETA: 0:00 1.46/ 1.46 kB 47.92 kB/s
...supportSave_files/SW1-S0-200811150920-CONSOLE1.gz: 1.46 kB 47.92 kB/s
...supportSave_files/SW1-S0-200811150920-CONSOLE1.gz: 1.46 kB 47.92 kB/s

Saving support information for switch:SW1, module:SSAVELOG...

/tmp/supportSave_files/SW1-S0-200811150920-sslog.ss.gz:
...-S0-200811150920-sslog.ss.gz: ETA: 0:00 1.82/ 1.82 kB 4.22 MB/s
...-S0-200811150920-sslog.ss.gz: ETA: 0:00 1.82/ 1.82 kB 55.18 kB/s
...supportSave_files/SW1-S0-200811150920-sslog.ss.gz: 1.82 kB 55.18 kB/s
...supportSave_files/SW1-S0-200811150920-sslog.ss.gz: 1.82 kB 55.18 kB/s

SupportSave completed

Step 2:-(Check the full hardware logs)

SW1:root> supportshow

Date:

Sat Nov 15 09:21:37 UTC 2008

Time Zone:

Time Zone Hour Offset: 0

Time Zone Minute Offset: 0

Version:

Kernel: 2.6.14.2

Fabric OS: v6.0.0c

Made on: Mon Feb 11 20:36:34 2008

Flash: Tue Aug 26 04:12:04 2008

BootProm: 4.6.6

supportshow groups enabled:

os enabled

exception enabled

port enabled

fabric enabled

services enabled

security enabled

network enabled

portlog enabled
system enabled
extend disabled
filter disabled
perfmon disabled
ficon disabled
iswitch enabled
asic_db enabled
iscsi enabled
ag enabled

**** Begin start_port_log_cmd group ****

portlogdump:

time task event port cmd args

Sat Nov 15 09:08:26 2008

09:08:26.414	PORT	Tx3	13	48	03010d00,00ffffff,02040492,01000000
09:08:27.950	PORT	Rx3	2	24	02ffffff,00010200,06d6ffff,01000000
09:08:27.950	nsd0	ctin	2	fc	00030139,20000000,c9584db9
09:08:27.950	nsd0	ctout	2	fc	00038002,2e456d75,6c657820
09:08:27.950	PORT	Tx3	2	272	03010200,00ffffff,06d60493,01000000
09:08:27.951	PORT	Rx3	2	20	02ffffff,00010200,06d7ffff,01000000
09:08:27.951	nsd0	ctin	2	fc	00010118,00010200
09:08:27.951	nsd0	ctout	2	fc	00038002,2e456d75,6c657820
09:08:27.951	PORT	Tx3	2	272	03010200,00ffffff,06d70494,01000000

09:08:27.952 PORT Rx3 2 20 02ffffffc,00010200,06d8ffff,01000000
09:08:27.952 nsd0 ctin 2 fc 00010118,00010200
09:08:27.952 nsd0 ctout 2 fc 00038002,2e456d75,6c657820
09:08:27.952 PORT Tx3 2 272 03010200,00ffffffc,06d80495,01000000
09:08:27.955 PORT Rx3 2 20 02ffffffc,00010200,06d9ffff,01000000
09:08:27.955 nsd0 ctin 2 fc 00010118,00010200
09:08:27.955 nsd0 ctout 2 fc 00038002,2e456d75,6c657820
09:08:27.956 PORT Tx3 2 272 03010200,00ffffffc,06d90496,01000000
09:08:27.957 PORT Rx3 2 24 02ffffffc,00010200,06daffff,01000000
09:08:27.957 nsd0 ctin 2 fc 00030139,20000000,c9584db9
09:08:27.958 nsd0 ctout 2 fc 00038002,2e456d75,6c657820
09:08:27.958 PORT Tx3 2 272 03010200,00ffffffc,06da0497,01000000
09:08:27.958 PORT Rx3 2 20 02ffffffc,00010200,06dbffff,01000000
09:08:27.958 nsd0 ctin 2 fc 00010118,00010200
09:08:27.959 nsd0 ctout 2 fc 00038002,2e456d75,6c657820
09:08:27.959 PORT Tx3 2 272 03010200,00ffffffc,06db0498,01000000
09:08:27.959 PORT Rx3 2 20 02ffffffc,00010200,06dcffff,01000000
09:08:27.959 nsd0 ctin 2 fc 00010118,00010000
09:08:27.960 nsd0 ctout 2 fc 00038002,1c484954,41434849
09:08:27.960 PORT Tx3 2 48 03010200,00ffffffc,06dc0499,01000000
09:08:27.960 PORT Rx3 2 20 02ffffffc,00010200,06ddffff,01000000
09:08:27.960 nsd0 ctin 2 fc 00010118,00010400
09:08:27.961 nsd0 ctout 2 fc 00038002,1c484954,41434849
09:08:27.961 PORT Tx3 2 48 03010200,00ffffffc,06dd049a,01000000
09:08:27.961 PORT Rx3 2 20 02ffffffc,00010200,06deffff,01000000

Etc...

Step 3:- (Configuration Backup)

SW1:root> configupload

Protocol (scp, ftp, local) [ftp]: ftp

Server Name or IP Address [host]: 172.19.239.59

User Name [user]: root

File Name [config.txt]: configsw1.txt

Password: <root password>

configUpload complete: All config parameters are uploaded

Step 4:- (Check the firmware version)

SW1:root> firmwareshow

Appl Primary/Secondary Versions

FOS v6.0.0c

v6.0.0c

Step 5:- (download the firmware)

SW1:root> firmwaredownload

Server Name or IP Address: 172.19.239.59

User Name: root

File Name: v5.3.1b

Network Protocol(1-auto-select, 2-FTP, 3-SCP) [1]: 2

Password: <root password>

Checking system settings for firmwaredownload...

Protocol selected: FTP

Trying address-->AF_INET IP: 172.19.239.59, flags : 2

System settings check passed.

You can run `firmwaredownloadstatus` to get the status of this command.

This command will cause a warm/non-disruptive boot on the switch,
but will require that existing telnet, secure telnet or SSH sessions
be restarted.

Do you want to continue [Y]: y

Firmware is being downloaded to the switch. This step may take up to 30 minutes.

Preparing for firmwaredownload...

Start to install packages...

```
dir #####
ldconfig #####
glibc #####
bash #####
readline #####
terminfo #####
termcap #####
fileutils #####
textutils #####
setup #####
warning: /etc/hosts created as /etc/hosts.rpmnew
swbd12-setup #####
which #####
findutils #####
bzip #####
```

zlib #####
chkconfig #####
sed #####
procps #####
psmisc #####
modutils #####
sin #####
rcinit #####
misc #####
pam #####
util-linux #####
sh-utils #####
popt #####
grep #####
rpm #####
sysvinit #####
man #####
less #####
gzip #####
tar #####
rsync #####
uuid-libs #####
e2fsprogs #####
telnet-server #####
cpio #####

dev #####
bootenv #####
wtd #####
fwdl #####
kernel #####
swbd21-drivers #####
sysklogd #####
getty #####
net-tools #####
vixie-cron #####
uucp #####
ksymoops #####
portmap #####
inetd #####
iptables #####
tcpd #####
rsh-server #####
rsh #####
openssl-libs #####
openssh #####
openssh-server #####
rusers-server #####
rdate #####
logrotate #####
ntp #####

pciutils #####
strace #####
sendmail #####
iproute2 #####
libxml2 #####
fss #####
fabos-setup #####
fabos-drivers #####
fabos-libs #####
fabos-diag #####
fabos #####
fabos-zoning #####
fabos-man #####
fabos-hmon #####
fabos-wwnhs #####
fabos-swbd32 #####
fabos-webtoolsez #####
sqlite #####
dhcpcd #####
apache #####
fastcgi #####
fabos-webtools #####
tz #####
mtracer-tool #####
sysstat #####

ipv6 #####

awk #####

Writing kernel image into flash.

.....

Finished writing kernel image.

Removing unneeded files, please wait ... Finished removing unneeded files.

All packages have been downloaded successfully.

Firmware has been downloaded to the secondary partition of the switch.

HA Rebooting ...

Step 6:- (check the firmware version)

SW1:root> firmwareshow

Appl Primary/Secondary Versions

FOS v5.3.1b

v5.3.1c