

HowTo: Firmware Update DGS-3130 Series on CLI

[Requirements]

- 1. DGS-3130-xx Stack (or single unit) with firmware version below 1.10B21
- 2. TFTP-Server tool (f.e. TFTPD32)

[Topology]



[Preparations]

- \Rightarrow the DGS-3130-xx uses by default and in factory settings the IP 10.90.90/8
- before proceeding, either change your PCs or Switch's IP according to you environment
- ⇒ please enable and define SSH or Telnet access on the WebGUI before updating the firmware by CLI



- 1. connect to the switch/stack by telnet/ssh/console
 - a. enter for your session the "Enable" level

UART Init	100%
Device Discovery	100%
Configuration Init	100%
Press any key to login	
DGS_3130_30S Gigshit Ethernet Sw	itch
bas-siso sos aigabit Ethernet sw	Iten
Command Line Interface	
Firmware: 1.10.B013	
Copyright(C) 2018 D-Link Corporation.	All rights reserved.
Switch>	
Switch>	
Switch>	
Switchenable	
SW 1 C 144	

check your stacking status and of how many devices are within the stack

 a. show stack

ALL REAL	100									
Suitch#show stack										
Stac The Stac Hax Hax Curr Hy B Hast BK H	king technolog number of box king Mode Stack Cost Box Count eent Box Count iox ID er Box ID laster Box ID	gy is Stad can be st : Enab : 12 : 9 t : 2 : 2 : 1 : 1 : 2	:king Lit tacked is led	te Ver 0.1 s restrict	ed bi	у нах box count	and 1	1ax :	stack cos	t.
Box ID	Hodule Name	Priority	HAC		PROI Ver:	H/Runtime sion	H/H Ver.	Suit Stat	tch tus	Stack Cost
1 2 3 4 5 6 7 8 9 Stac	DGS-3130-30TS DGS-3130-30TS k Banduidth:	Unassign - - - - - -	58:D5:60 58:D5:60 	:42:C0:00 :42:BF:80	1.0 1.0 	0.006/1.10.8020 0.005/1.10.8020	A1 A1 - - - - -	OK OK Not Not Not Not Not	Present Present Present Present Present Present Present	1 1 - - - -
Box ID	Interface	Link Statu	IS	Link Speed (Gb,	/s)	Link Partner Box ID 				
1 1 2 2	0/29 0/30 0/29 0/30	Link Link Link Link	Uр Uр Uр Uр	10 10 10 10		2 2 1 1				
Runn Stat Time	ning-Config Syr us Since Last Sy 	nchronizat : Syr ync. : D (tion to f nchroniza Jays 2 hi	3K Master: ed rs 34 mins	35 :	secs				
Suit	ch#									



check which are the boot files to ensure not to delete the active files

 a. show boot



- 4. check the free space of the unit/units
 - a. dir unit1:/c:
 - b. dir unit2:/c:
 - c. repeat this command until you reached the last unit (f.e. dir unit5:/c:)

Suitch# Suitch#dir unit1:/c:		
Directory of c: 1 dru D 2 -ru 829 3 -ru 26138485 4 -ru 25977895 04221840 kutos totol (Jan 01 1970 01:00:49 May 28 2019 14:27:46 May 28 2019 14:49:14 May 28 2019 14:49:14 May 28 2019 14:35:35	crashlogs config1 runt ine1120.had runt ine1014.had
945/164D bytes total (Switch#dir unit2:/c:	42255512 Dytes Tree)	
Directory of /unit2:/c 1 dru 0 2 -ru 26138485 3 -ru 25100111 4 -ru 687	:: Jan 01 1970 00:00:47 May 27 2019 09:51:33 May 24 2019 13:40:05 May 27 2019 10:29:21	crashlogs RUN_110B020 RUN_101B027 config1
94371840 bytes total (Switch#	43130880 bytes free)	



- 5. if there are already 2 or more firmware files existing it is required to delete the ones not used
 - a. delete /unit1:/c:/runtime1014.had
 - b. delete /unit2:/c:/RUN_101B027
 - c. repeat this for all your other units



- 6. check the free space of the unit/units again
 - a. dir unit1:/c:
 - b. dir unit2:/c:
 - c. repeat this command until you reached the last unit (f.e. dir unit5:/c:)

аниси# Sµitch#dir u	nit1:/c:	
Directory of 1 dru 2 -ru 3 -ru	c: 0 Jan 01 1970 01:00:49 829 Hay 28 2019 14:27:46 26138485 Hay 28 2019 14:49:14	crashlogs config1 runtine1120.had
94371840 byte	es total (68231168 bytes free)	
Sµitch#dir un	nit2:/c:	
Directory of 1 dru 2 -ru 3 -ru	/unit2:/c: 0 Jan 01 1970 00:00:47 26138485 Hay 27 2019 09:51:33 687 Hay 27 2019 10:29:21	crashlogs RUN_110B020 config1
94371840 byte	es total (68231168 bytes free)	
Suitch#		



7. Start your TFTP-Server (f.e. TFTPD32)

- a. if you use a windows client, ensure to have created the required windowsfirewall rules, or disable the local windows firewall for this
- b. check that you have the correct folder selected

🏘 Tftpd64 by Ph. Jounin	- 🗆 X
Current Directory C:\! Laufwerk E\TFTP_R00T\DGS-3130	Browse
Server interfaces 192.168.10.12 Intel(R) Wireless-AC 9260 160MHz	Show Dir
Tftp Server Syslog server Log viewer 🏟 Tftpd64: directory X	
peer me start unie progres DGS3130_RUN_110B013.img 24.04.2019	
About Settings	Help

c. if you selected the file correctly, check that your switch can reach the TFTP-Server by ping (f.e. ping 192.168.10.12)



- 8. download the firmware files to the switch
 - a. copy tftp: //192.168.10.12/DGS3130_RUN_110B021.img flash: image1





Wait until the file has been transferred completely and then distributes the new firmware to all switches within the stack



- 9. check the file system of the unit/units again to ensure that the new firmware file is existing on all units
 - a. dir unit1:/c:
 - b. dir unit2:/c:
 - c. repeat this command until you reached the last unit (f.e. dir unit5:/c:)

Sµitch# Sµitch#dir u	nit1:/c:			
Directory of 1 dru 2 -ru 3 -ru 4 -ru	c: 0 Jan 829 Hay 26136648 Hay 26138485 Hay	01 1970 28 2019 29 2019 28 2019 28 2019	01:00:49 14:27:46 10:22:08 14:49:14	crashlogs config1 inage1 runtine1120.had
94371840 byt	es total (420	194592 by	tes free)	
Sµitch#dir u	nit2:/c:			
Directory of 1 dru 2 -ru 3 -ru 4 -ru	/unit2:/c: D Jan 26138485 May 687 May 26136648 May	01 1970 27 2019 27 2019 29 2019	00:00:47 09:51:33 10:29:21 09:23:19	crashlogs RUN_110B020 config1 inage1
94371840 byt	es total (420	94592 by	tes free)	
Suitch#				



- 10. Activate the new firmware as boot-up firmware
 - a. change into "configure terminal" mode
 - b. boot image unit1:/c:/image1
 - c. boot image unit2:/c:/image1
 - d. repeat this for all the units within your stack
 - e. check boot file for all units again

Suitch#
Sµitch#configure terminal
0:+
Suffencentig)#
Suitch(config)#
Switchlconfig)#
SwitchlcontigJ#boot image unit2:/c:/image1
Copy in progress100%
Suitch(config)#boot інаде unit1:/c:/інаде1
Copy in progress100%
Suitch(config)#shou boot
Unit 1
Boot image: /c:/image1
Boot config: /c:/config1
Unit 2
Boot image: /c:/image1
Boot config: /c:/config1
Suitch(confia)#

- 11. Leave the configuration mode then save your configuration and reboot the device/stack
 - a. leave configuration mode with "exit"
 - b. save config with "copy running-config startup-config"
 - c. reboot stack with "reboot"





- 12. after reboot check the new firmware of the switch/stack
 - a. show versionb. show stack

D: SHOW STACK											
Switch#show version											
Device MAC Address: 58:D5:6E:42:CO:00 System MAC Address: 58:D5:6E:42:CO:01											
Unit	Unit ID Module Name Versions										
1 2		DGS-3130	-30TS -30TS	H/H:A Bootl Runti H/H:A Bootl Runti	1 oader:1.00 ие:1.10.80 1 oader:1.00 ие:1.10.80	.000 21 .009 21	5 5				
Suit	ch#sł	юµ stack									
Stacking technology is Stacking Lite Ver 0.1 The number of box can be stacked is restricted by max box count and max stack cost. Stacking Mode : Enabled Max Stack Cost : 12 Max Box Count : 9 Current Stack Cost : 2 Current Box Count : 2 My Box ID : 1 Master Box ID : 1											
Box ID	Hodu Nane	ıle 2	Priority	, MAC		PR(Vei	OH/Runtine rsion	H/H Ver.	Suit Stat	tch tus	Stack Cost
123456789	DGS-3 DGS-3 	3130-30TS 3130-30TS	Unassign Unassign - - - - - -	 	E:42:CO:OO E:42:BF:80	1.1 1.1 1.1 	DD.006/1.10.8021 DD.005/1.10.8021	A1 A1 - - - - -	OK OK Not Not Not Not Not Not	Present Present Present Present Present Present	1 1 - - - - -
Stac Box ID	k Bar Int	ndwidth: terface	Lini Stat	(tus	Link Speed (Gb,	/s)	Link Partner Box ID				
1 1 2 2	0/29 0/30 0/29 0/30)]]]	Lin Lin Lin Lin	< Up < Up < Up < Up < Up	10 10 10 10		2 2 1 1				
Running-Config Synchronization to BK Haster: Status : Synchronized Time Since Last Sync. : O days O hrs О mins 4 secs											