

M4300-S3300 Mixed Stacking

LET 24-PORT 10G SWITCHES JOIN YOUR S3300 STACKS!



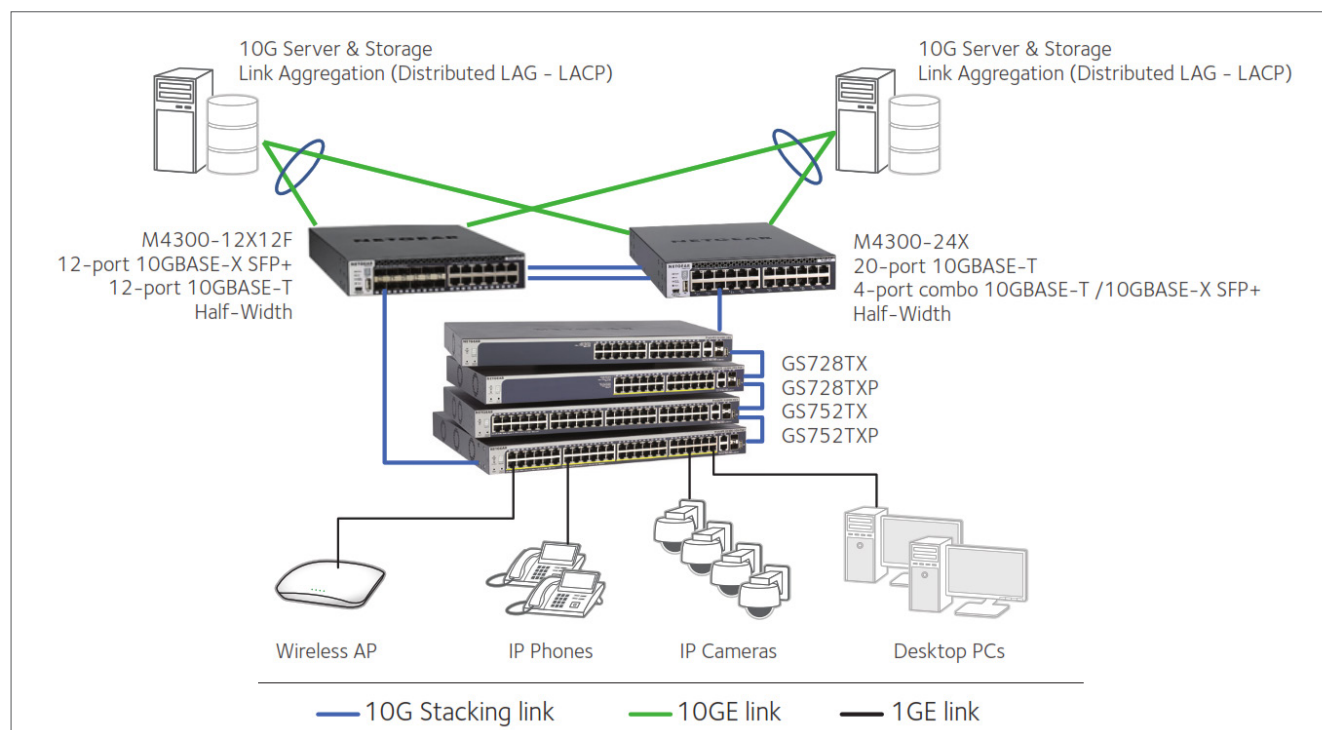
Introducing new stacking capability with M4300 10G Switches for server & storage applications as well as 10G copper and fiber expansion

The S3300 Series are a new generation of Gigabit Stackable Smart Managed Pro Switches inclusive of 4 10G ports, which can be used for uplinks and/or stacking between other S3300 switches. Mixed stacking with select M4300 10G switches (12X12F and 24X) allows 10G architecture that can both scale as organization networks grow and be powerful enough for server and storage applications.

S3300 stacking feature provides resilient network architecture: up to six (6) S3300 switches can be stacked with a single management IP address, which simplifies network operations. The S3300 architecture offers a 40Gbps bi-directional stacking backplane with two (2) 10G stacking ports per switch, built-in redundancy and auto-failover. The stacking capability allows for master and slave switches with a secondary master as back-up. The backup master can quickly take over the failed master switch function. Failed switches can be hot swapped with the rest of the switches in the stack unaffected and operational. Stacking is supported at 10-Gigabit speeds (with either 10GBASE-T Copper or SFP+ Fiber modules) only.

Now stacking with 10G switches: for additional 10G connectivity, S3300 switches can stack with M4300-12X12X and M4300-24X 10G models. M4300 switches scale down to S3300 feature set when mixed stacking. Four (4) 10G stacking ports per switch can be used on each M4300 model running S3300 code. S3300 1G models can still use two (2) 10G stacking ports when mixed stacking, the stacking topology remains the same.

Collapsed Core: Mixed Stacking with M4300 models



S3300 switches can stack with M4300 select 10G models (M4300-12X12F and M4300-24X) running S3300 software. Upgrading procedures and restrictions apply.

SMART M4300-S3300 STACKING NOTES

With software release 6.6.4.x, two M4300 24-port 10G models (M4300-12X12F XSM4324S and M4300-24X XSM4324CS) can stack with S3300 models, in any combination and up to 6 switches per stack.

1. M4300-12X12F / M4300-24X (thereafter referred to as M4300) and S3300 have separate 6.6.4.x images to support this mixed stacking:
 - These switches need to be upgraded to their respective new 6.6.4.x images before they can join the same stack
 - Before loading 6.6.4.x image into M4300 unit, the M4300 should run 12.0.2.17 image or newer, first
 - Once a M4300 unit is running 6.6.4.x image, it can be brought back to M4300 full family feature set by directly downloading a M4300 12.x image into it.
2. On the two M4300 models, maximum four 10G ports (any 4 from below 8 available ports) can be configured as copper or fiber stacking ports:
 - M4300-12X12F: ports 9~12 and ports 21~24
 - M4300-24X: ports 17~24
3. M4300 with 6.6.4.x image scales down to S3300 feature set, it effectively acts as a S3300 switch when running this software

4. Either M4300 unit or S3300 unit can be Stack Master, or Stack Backup Management unit in a mixed stack
5. New features for M4300 running Smart 6.6.4.x image:
 - SCC (Smart Control Center) can be used to discover the Smart M4300 and do some basic settings; just same as with other S3300 models
 - Reset button on front panel of M4300 models can be used to factory default the unit
 - When the reset button is pressed for 2~5 seconds, the switch will simply reset (reload)
 - When the reset button is pressed for over 5 seconds, the switch will go for factory default (clear all configuration followed by reload).

SMART M4300-S3300 STACKING RESTRICTIONS

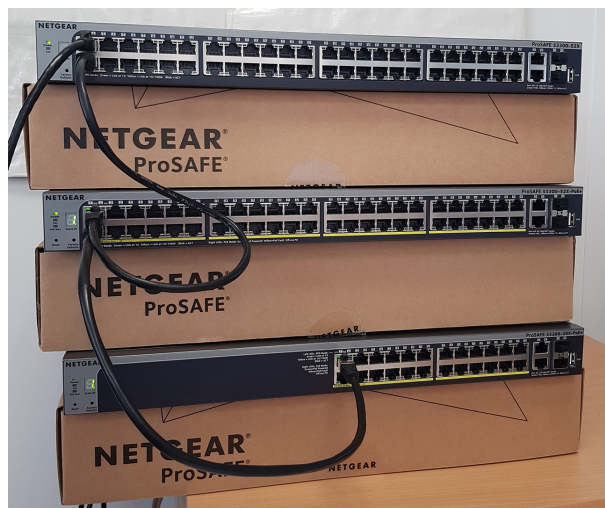
When running 6.6.4.x image, following restrictions apply for M4300 models:

- AVB will not be available, even in Standalone mode on M4300
- All stacking functionalities of S3300 extend to these two M4300 platforms, hence M4300 specific NSF (Non-Stop Forwarding) mode isn't supported
- CLI under console port is not supported
- Service port (OOB) is not supported for management or any other purpose
- M4300 advanced features (dynamic routing, etc.) aren't available
- Only S3300 common denominator features (and table size) remain available

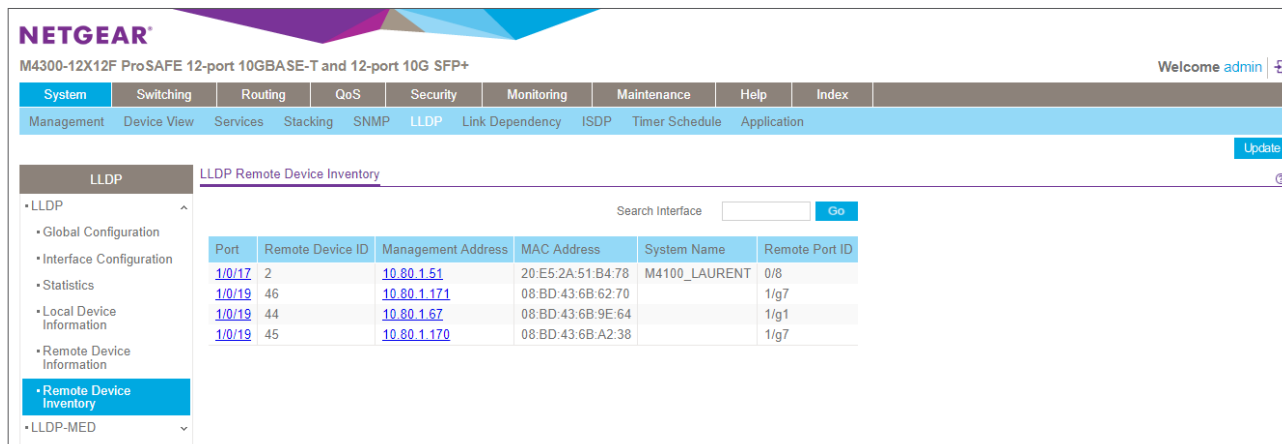
SMART M4300-S3300 STACKING EXAMPLE

This example shows how to stack three S3300 switches with one M4300 switch.

1. Assuming the three S3300 switches are out of the box, we are going to prepare them for stacking. **If you already have a stack of S3300 switches up and running, please directly go to step 40.**
2. Other methods are possible, but in this example, we are going to form a stack with the three S3300 switches – and when the stack is up and running, we will prepare the M4300 switch and add it to the stack
3. Connect the first S3300 switch to your network, and daisy chain the other two S3300 switches as follows (using 1G ports). Power on the three switches: at this time, they're all independent, in standalone mode:



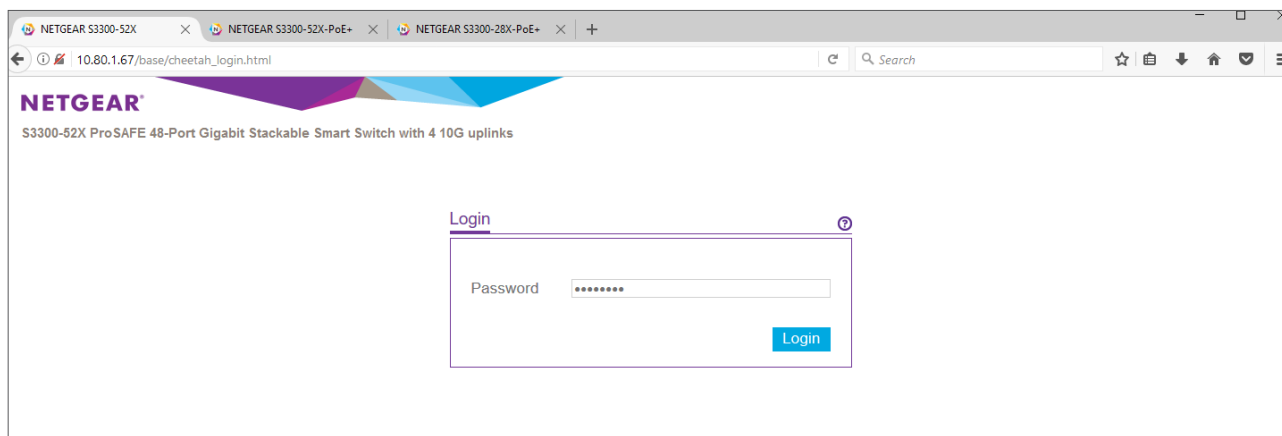
4. If there's a DHCP server on the network, you can discover each S3300 IP address by using NETGEAR Smart Control Center software (available for Windows here: [https://www.netgear.com/support/product/Smart%20Control%20Center%20\(SCC\).aspx#download](https://www.netgear.com/support/product/Smart%20Control%20Center%20(SCC).aspx#download)). Alternatively, you can use the LLDP table on the switch the first S3300 is connected to. For instance, a M4300 unit will show the following in System/LLDP/Remote Device Inventory:



The screenshot shows the NETGEAR web interface for an M4300-12X12F ProSAFE switch. The left sidebar shows the navigation menu with 'Remote Device Inventory' selected under the 'LLDP' section. The main content area displays the 'LLDP Remote Device Inventory' table.

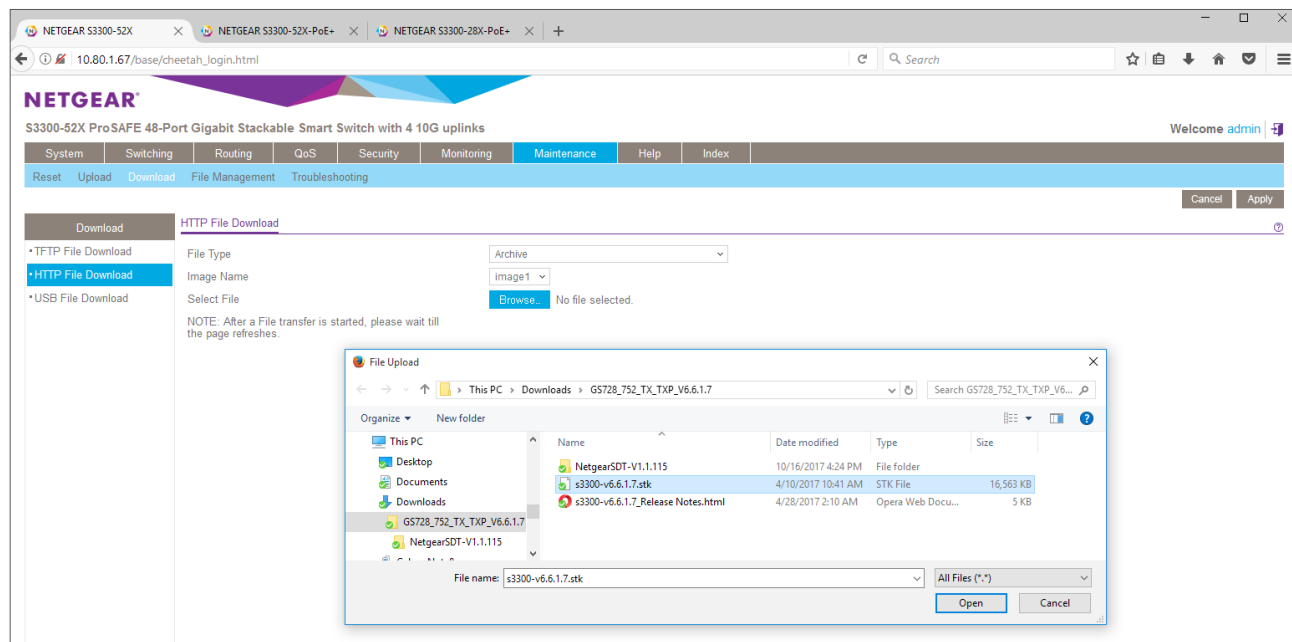
Port	Remote Device ID	Management Address	MAC Address	System Name	Remote Port ID
1/0/17	2	10.80.1.51	20:E5:2A:51:B4:78	M4100_LAURENT	0/8
1/0/19	46	10.80.1.171	08:BD:43:6B:62:70		1/g7
1/0/19	44	10.80.1.67	08:BD:43:6B:9E:64		1/g1
1/0/19	45	10.80.1.170	08:BD:43:6B:A2:38		1/g7

5. Open a web browser and enter the IP address of the first S3300 switch in the address field. Log onto the first S3300 switch (default password is: password)

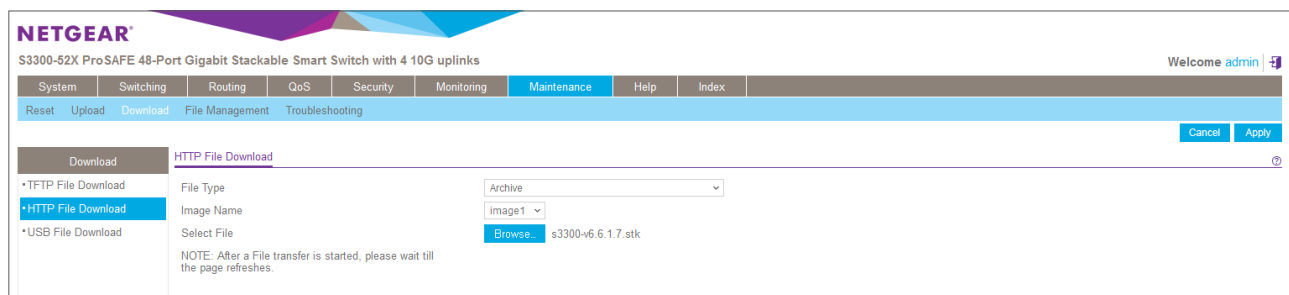


The screenshot shows a web browser window with the address bar set to '10.80.1.67/base/cheetah_login.html'. The page displays the NETGEAR logo and the switch model 'S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks'. A 'Login' dialog box is centered on the page, containing a 'Password' field with masked characters and a 'Login' button.

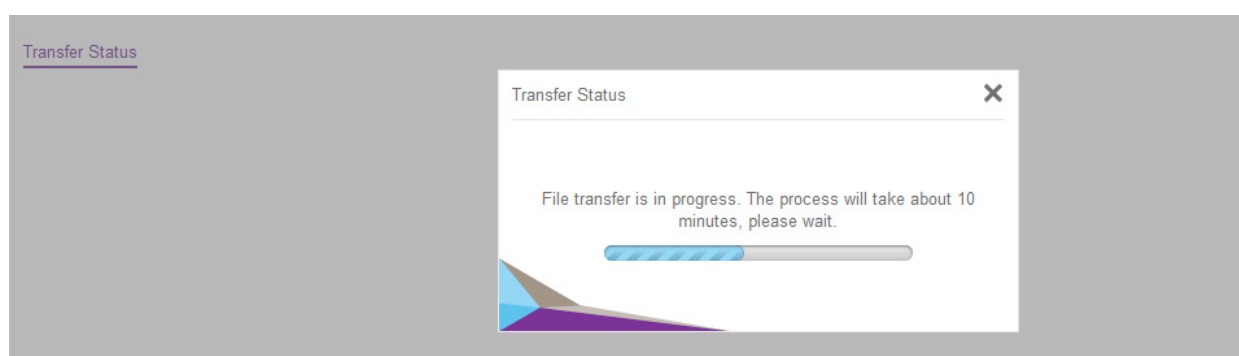
6. To form a stack, all switches must run the same software version (firmware). If that's not the case out of the box, please download a firmware image from the S3300 models support page, for instance here: [https://www.netgear.com/support/product/S3300-52X%20\(GS752TX\).aspx#download](https://www.netgear.com/support/product/S3300-52X%20(GS752TX).aspx#download). To upgrade the switch, go to Maintenance/Download/HTTP File Download, click **Browse**, find the image that you previously downloaded, select it and click **Open**:



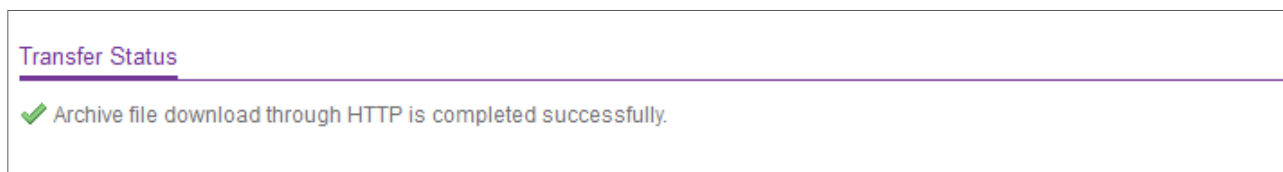
7. Click **Apply** to trigger the HTTP file download:



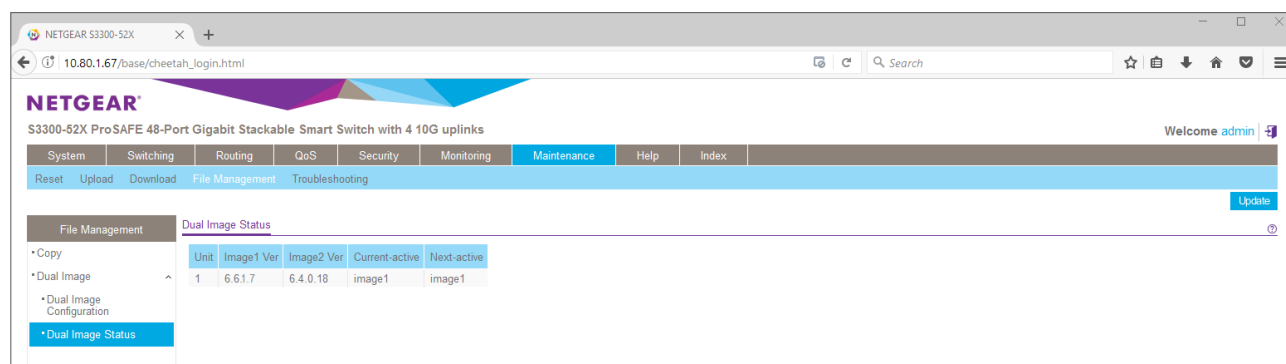
8. The following screen will show during the file transfer:



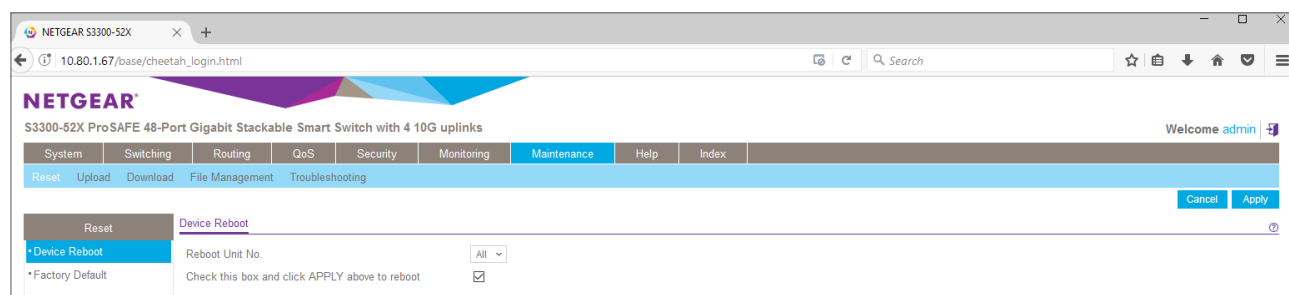
9. The following message is indicating when the file transfer was completed:



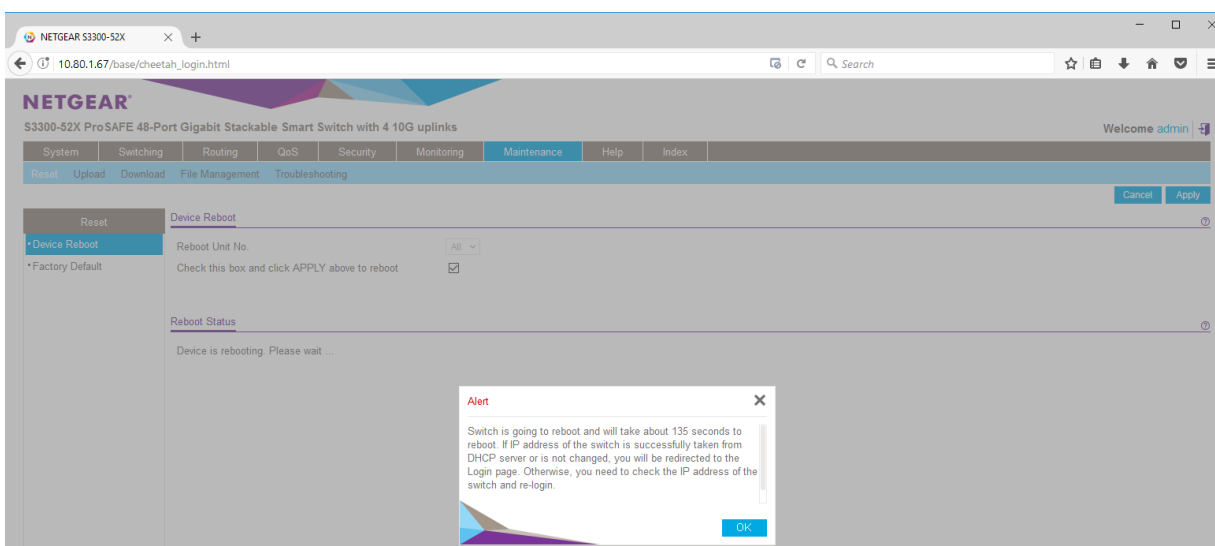
10. You can control if the new image is meant to be used as next-active image at Maintenance/File Management/Dual Image/Dual Image Status:



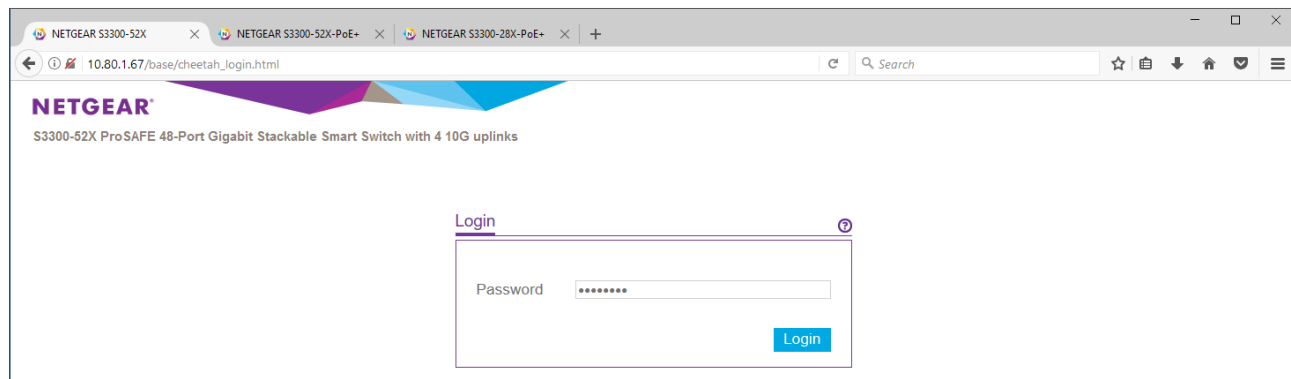
11. To load the new image, reboot the switch. Go to Maintenance/Reset/Device Reboot, check the box and click **Apply**:



12. Click **OK** to confirm the reboot:



13. After the reboot, relong onto the first S3300 switch (default password is: password)



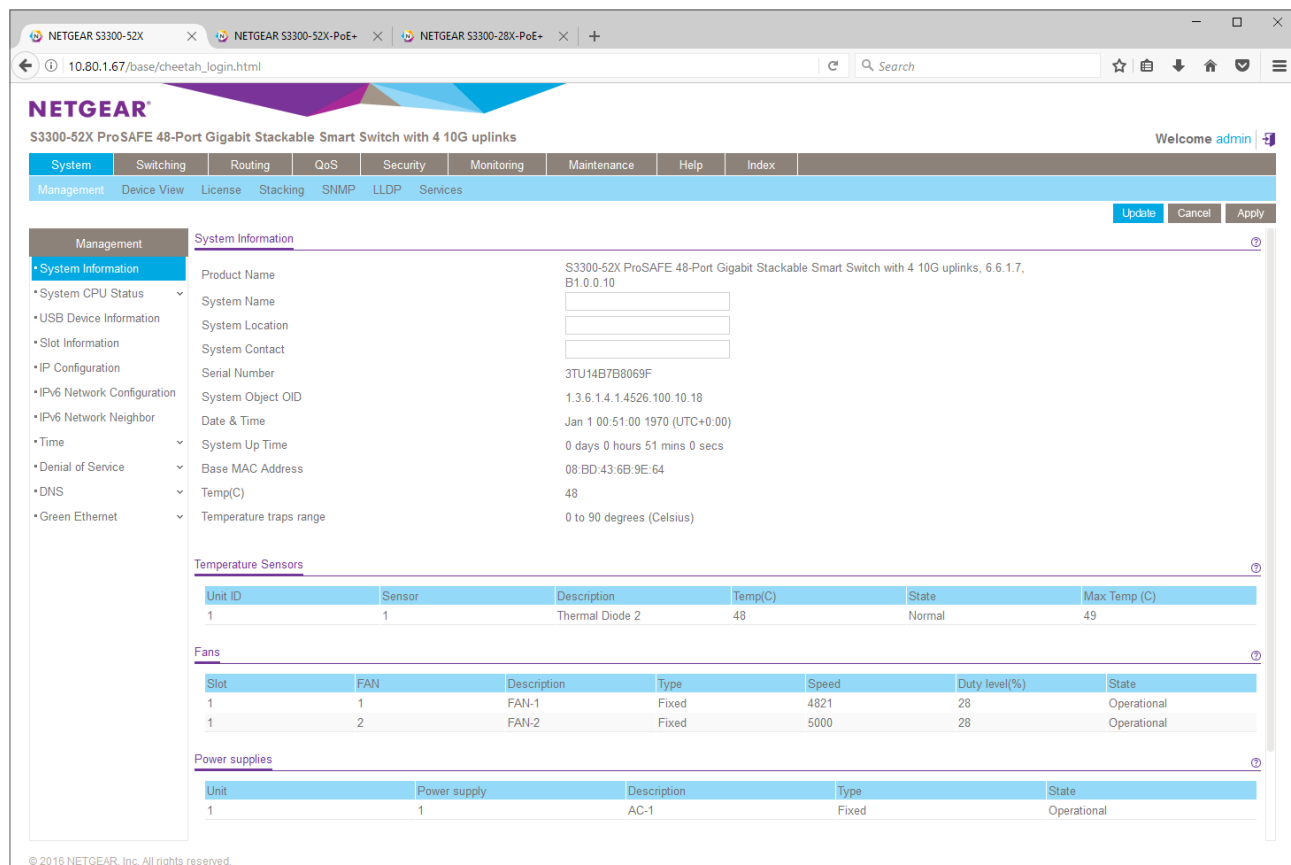
NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

Login

Password:

Login

14. On first System/Management/System Information page, control the firmware version:



NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

Welcome admin

System Switching Routing QoS Security Monitoring Maintenance Help Index

Management Device View License Stacking SNMP LLDP Services

Update Cancel Apply

Management

System Information

Product Name S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks, 6.6.1.7, B1.0.0.10

System Name

System Location

System Contact

Serial Number 3TU14B7B8069F

System Object OID 1.3.6.1.4.1.4526.100.10.18

Date & Time Jan 1 00:51:00 1970 (UTC+0:00)

System Up Time 0 days 0 hours 51 mins 0 secs

Base MAC Address 08:BD:43:6B:9E:64

Temp(C) 48

Temperature traps range 0 to 90 degrees (Celsius)

Temperature Sensors

Unit ID	Sensor	Description	Temp(C)	State	Max Temp (C)
1	1	Thermal Diode 2	48	Normal	49

Fans

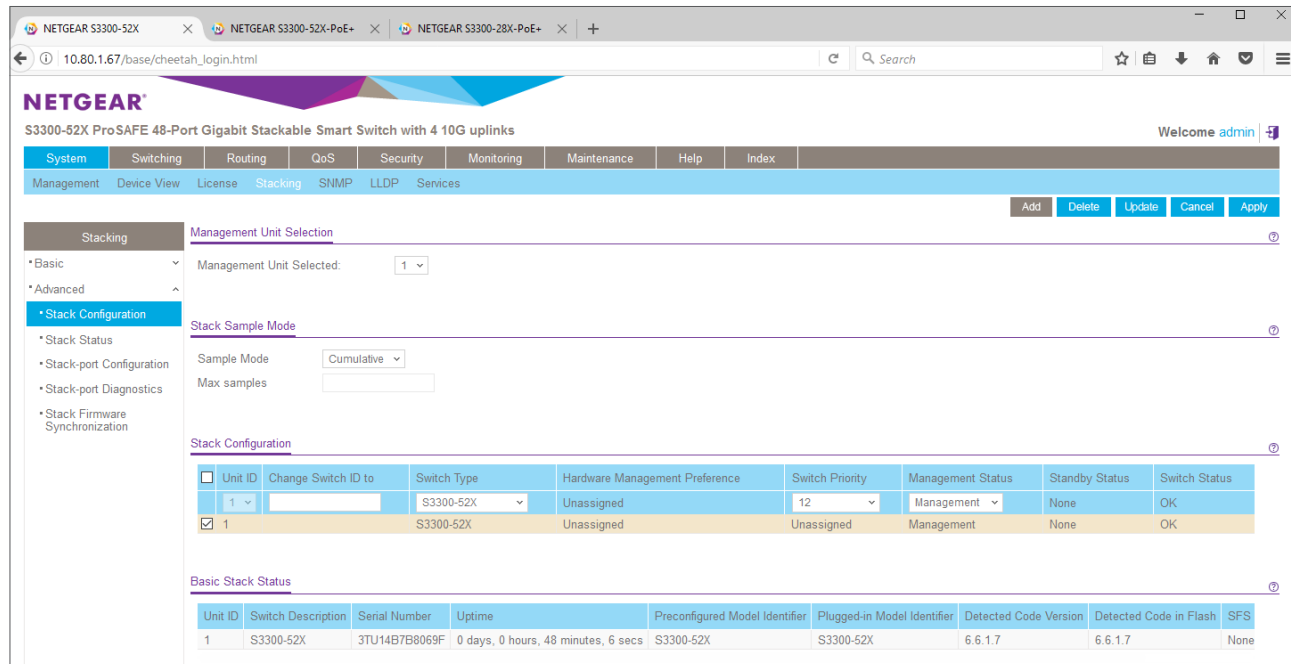
Slot	FAN	Description	Type	Speed	Duty level(%)	State
1	1	FAN-1	Fixed	4821	28	Operational
1	2	FAN-2	Fixed	5000	28	Operational

Power supplies

Unit	Power supply	Description	Type	State
1	1	AC-1	Fixed	Operational

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15. We need to prepare the first S3300 switch for stacking. Go to System/Stacking/Advanced/Stack Configuration: in Stack Configuration, check the box for Unit ID 1 and enter "12" in Switch Priority for the stack master mode. This way, the first S3300 switch will be elected as the stack master until another switch with higher priority is configured. Click **Apply**:



NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

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Management Device View License Stacking SNMP LLDP Services

Stacking

Management Unit Selection

Management Unit Selected: 1

Stack Sample Mode

Sample Mode: Cumulative

Max samples:

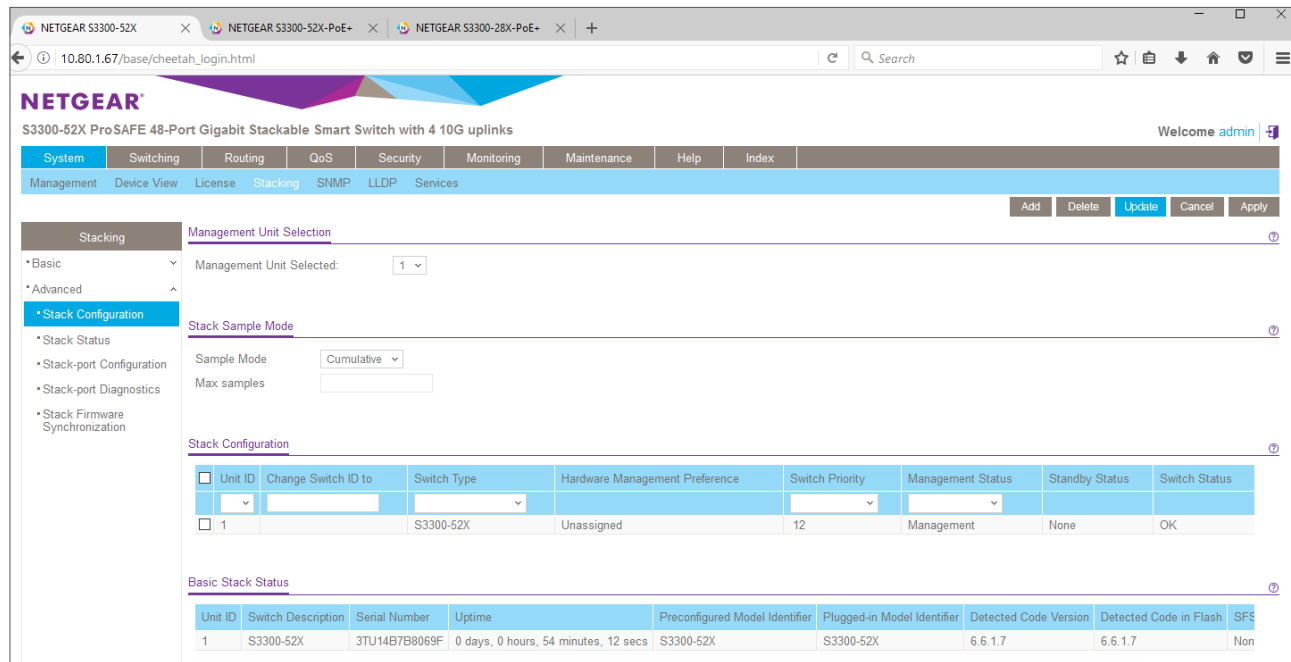
Stack Configuration

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1		S3300-52X	Unassigned	12	Management	None	OK

Basic Stack Status

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS
1	S3300-52X	3TU14B7B8069F	0 days, 0 hours, 48 minutes, 6 secs	S3300-52X	S3300-52X	6.6.1.7	6.6.1.7	None

16. Check if the Switch Priority was correctly updated:



NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

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Management Device View License Stacking SNMP LLDP Services

Stacking

Management Unit Selection

Management Unit Selected: 1

Stack Sample Mode

Sample Mode: Cumulative

Max samples:

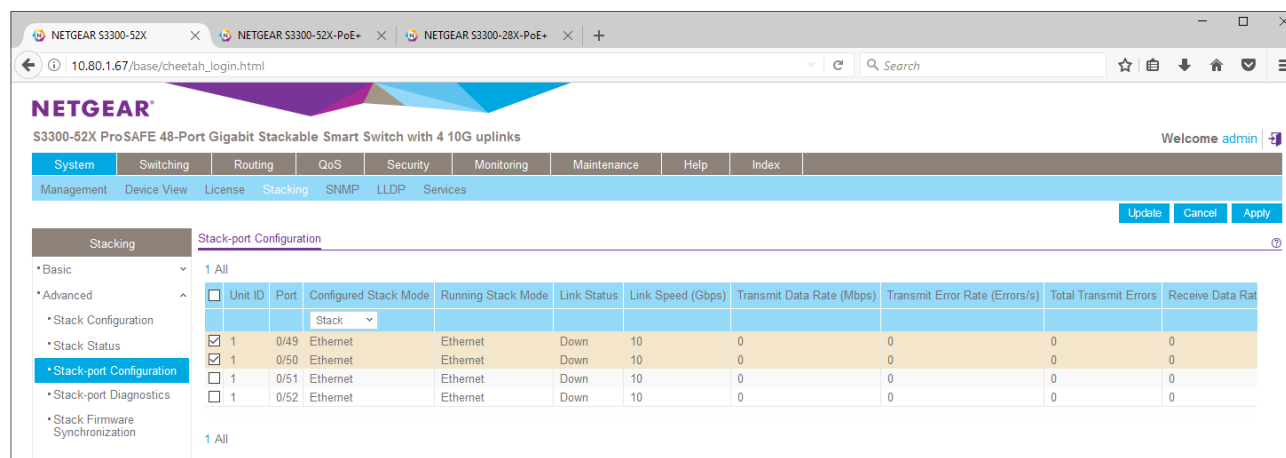
Stack Configuration

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1		S3300-52X	Unassigned	12	Management	None	OK

Basic Stack Status

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS
1	S3300-52X	3TU14B7B8069F	0 days, 0 hours, 54 minutes, 12 secs	S3300-52X	S3300-52X	6.6.1.7	6.6.1.7	Non

17. Go to System/Stacking/Advanced/Stack-port Configuration for configuring stacking ports. Check the boxes in front of 0/49 and 0/50 and select "Stack" in Configured Stack Mode. Click **Apply**:



NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

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Management Device View License Stacking SNMP LLDP Services

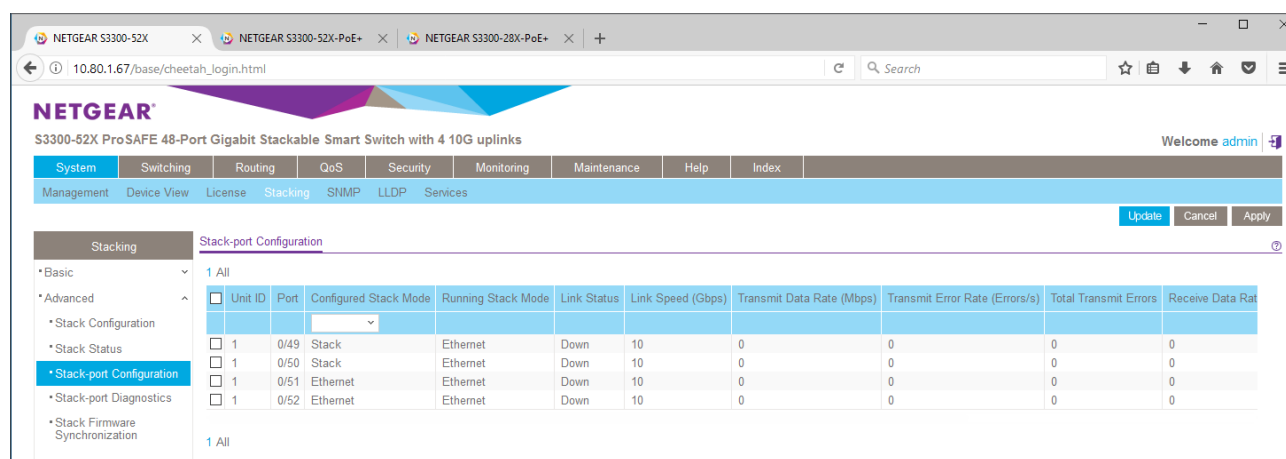
Stacking Stack-port Configuration

1 All

Unit ID	Port	Configured Stack Mode	Running Stack Mode	Link Status	Link Speed (Gbps)	Transmit Data Rate (Mbps)	Transmit Error Rate (Errors/s)	Total Transmit Errors	Receive Data Rate
<input checked="" type="checkbox"/>	1 0/49	Stack	Ethernet	Down	10	0	0	0	0
<input checked="" type="checkbox"/>	1 0/50	Stack	Ethernet	Down	10	0	0	0	0
<input type="checkbox"/>	1 0/51	Ethernet	Ethernet	Down	10	0	0	0	0
<input type="checkbox"/>	1 0/52	Ethernet	Ethernet	Down	10	0	0	0	0

1 All

18. Check the Configured Stack Mode for ports 49 and 50. It is normal that the Running Stack Mode is still Ethernet, change of the running mode will require a reboot.



NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

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System Switching Routing QoS Security Monitoring Maintenance Help Index

Management Device View License Stacking SNMP LLDP Services

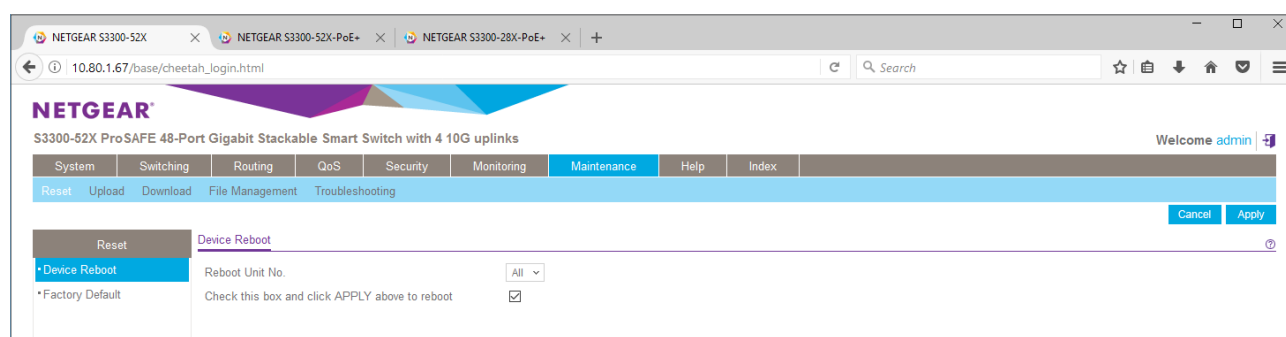
Stacking Stack-port Configuration

1 All

Unit ID	Port	Configured Stack Mode	Running Stack Mode	Link Status	Link Speed (Gbps)	Transmit Data Rate (Mbps)	Transmit Error Rate (Errors/s)	Total Transmit Errors	Receive Data Rate
<input type="checkbox"/>	1 0/49	Stack	Ethernet	Down	10	0	0	0	0
<input type="checkbox"/>	1 0/50	Stack	Ethernet	Down	10	0	0	0	0
<input type="checkbox"/>	1 0/51	Ethernet	Ethernet	Down	10	0	0	0	0
<input type="checkbox"/>	1 0/52	Ethernet	Ethernet	Down	10	0	0	0	0

1 All

19. Go to Maintenance/Reset/Device Reboot, check the box and click **Apply**:



NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

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System Switching Routing QoS Security Monitoring Maintenance Help Index

Reset Upload Download File Management Troubleshooting

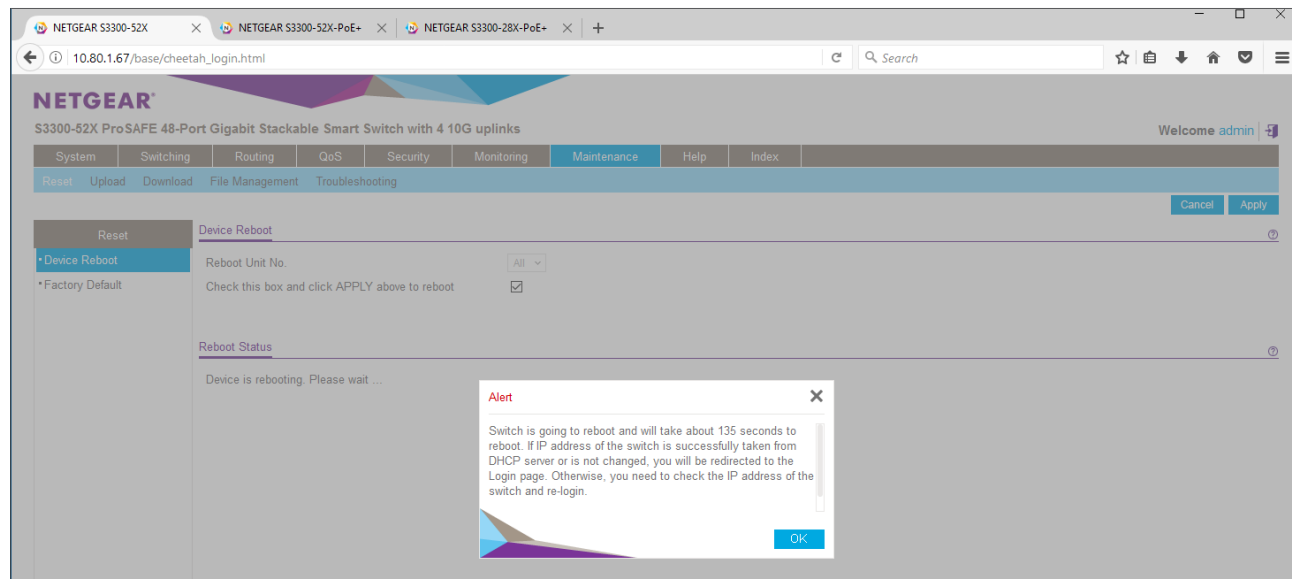
Reset Device Reboot

Device Reboot

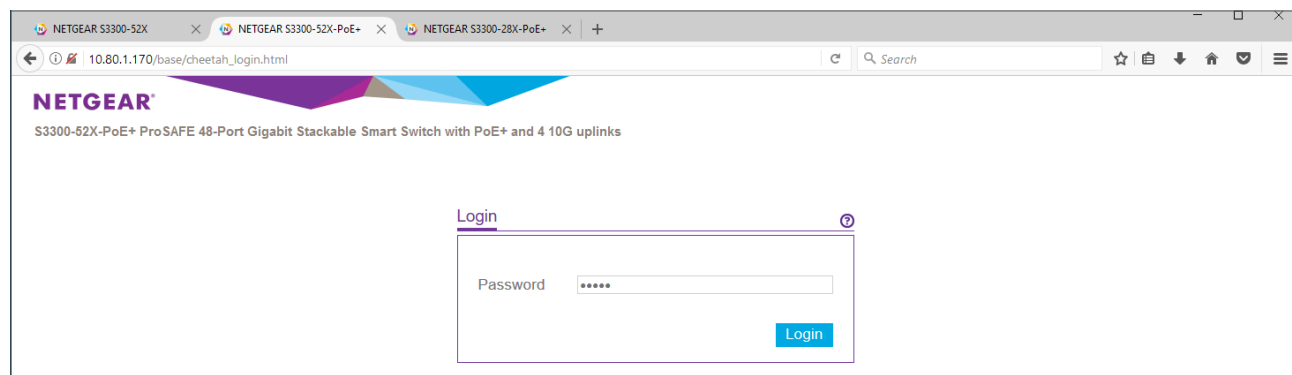
Reboot Unit No. All

Check this box and click APPLY above to reboot ☒

20. Click **OK** to confirm the reboot:



21. Log onto the second S3300 switch, default password is "password":



22. Check the firmware version on first System/Management/System Information page:

The screenshot shows the NETGEAR S3300-52X PoE+ web interface. The left sidebar shows the 'System Information' menu item selected. The main content area displays the following information:

- Product Name:** S3300-52X-PoE+ ProSAFE 48-Port Gigabit Stackable Smart Switch with PoE+ and 4 10G uplinks, 6.6.1.7, B1.0.0.10
- System Name:** [Empty field]
- System Location:** [Empty field]
- System Contact:** [Empty field]
- Serial Number:** 3TS14A7D8002C
- System Object OID:** 1.3.6.1.4.1.4526.100.10.19
- Date & Time:** Jan 1 00:45:57 1970 (UTC+0:00)
- System Up Time:** 0 days 0 hours 45 mins 57 secs
- Base MAC Address:** 08:BD:43:6B:A2:38
- Temp(C):** 46
- Temperature traps range:** 0 to 90 degrees (Celsius)

Below the System Information section, there are three tables:

Unit ID	Sensor	Description	Temp(C)	State	Max Temp (C)
1	1	Thermal Diode 2	46	Normal	46

Slot	FAN	Description	Type	Speed	Duty level(%)	State
1	1	FAN-1	Fixed	4671	28	Operational
1	2	FAN-2	Fixed	4720	28	Operational
1	3	FAN-3	Fixed	4753	28	Operational

Unit	Power supply	Description	Type	State
1	1	AC-1	Fixed	Operational

23. Go to System/Stacking/Advanced/Stack Configuration: in Stack Configuration, check the box for Unit ID 1 and enter "10" in Switch Priority for the stack master mode. This way, the second S3300 switch will be elected as the backup management unit (secondary stack master) when the first S3300 switch is the only switch with higher priority. Click **Apply**:

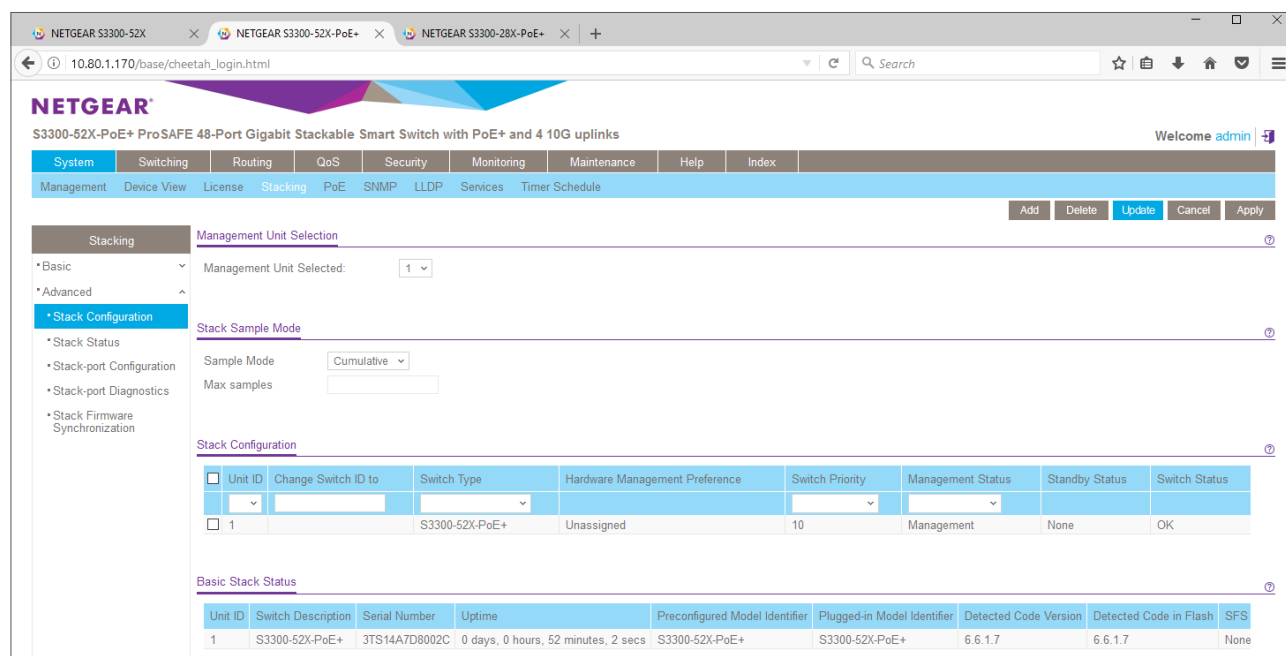
The screenshot shows the NETGEAR S3300-52X PoE+ web interface. The left sidebar shows the 'Stack Configuration' menu item selected. The main content area displays the following information:

- Management Unit Selection:** Management Unit Selected: 1
- Stack Sample Mode:** Sample Mode: Cumulative, Max samples: [Empty field]
- Stack Configuration:**

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1	[Empty field]	S3300-52X-PoE+	Unassigned	10	Management	None	OK
<input checked="" type="checkbox"/> 1		S3300-52X-PoE+	Unassigned	Unassigned	Management	None	OK
- Basic Stack Status:**

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS
1	S3300-52X-PoE+	3TS14A7D8002C	0 days, 0 hours, 51 minutes, 9 secs	S3300-52X-PoE+	S3300-52X-PoE+	6.6.1.7	6.6.1.7	None

24. Check if the Switch Priority was correctly updated:



NETGEAR S3300-52X PoE+ ProSAFE 48-Port Gigabit Stackable Smart Switch with PoE+ and 4 10G uplinks

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Management Device View License Stacking PoE SNMP LLDP Services Timer Schedule

Stacking Management Unit Selection

Management Unit Selected: 1

Stack Sample Mode

Sample Mode: Cumulative

Max samples:

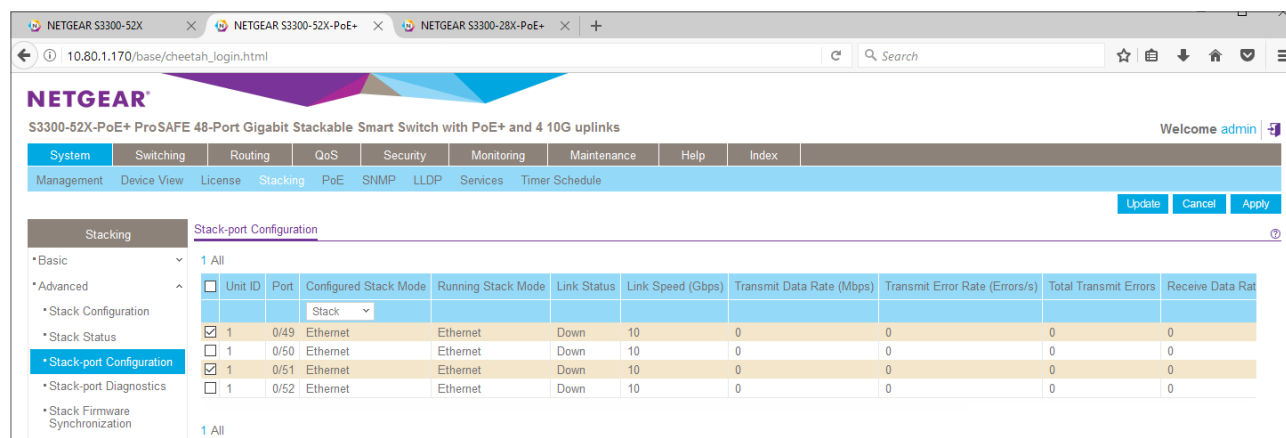
Stack Configuration

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1		S3300-52X-PoE+	Unassigned	10	Management	None	OK

Basic Stack Status

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS
1	S3300-52X-PoE+	3TS14A7D8002C	0 days, 0 hours, 52 minutes, 2 secs	S3300-52X-PoE+	S3300-52X-PoE+	6.6.1.7	6.6.1.7	None

25. Go to System/Stacking/Advanced/Stack-port Configuration for configuring stacking ports. Check the boxes in front of 0/49 and 0/51 and select "Stack" in Configured Stack Mode. Click **Apply**:



NETGEAR S3300-52X PoE+ ProSAFE 48-Port Gigabit Stackable Smart Switch with PoE+ and 4 10G uplinks

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Management Device View License Stacking PoE SNMP LLDP Services Timer Schedule

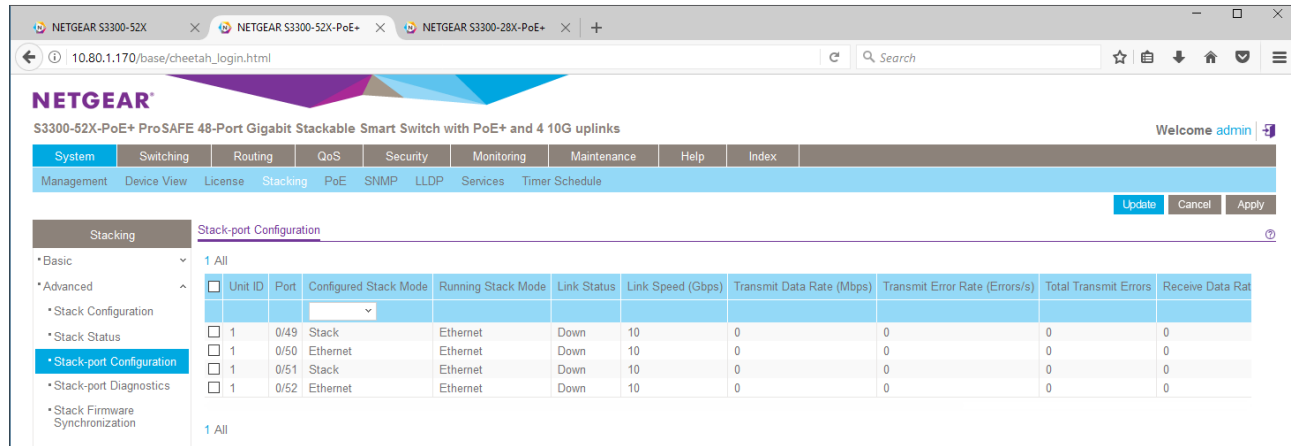
Stacking Stack-port Configuration

Stack

Unit ID	Port	Configured Stack Mode	Running Stack Mode	Link Status	Link Speed (Gbps)	Transmit Data Rate (Mbps)	Transmit Error Rate (Errors/s)	Total Transmit Errors	Receive Data Rate
1	0/49	Ethernet	Ethernet	Down	10	0	0	0	0
1	0/50	Ethernet	Ethernet	Down	10	0	0	0	0
1	0/51	Ethernet	Ethernet	Down	10	0	0	0	0
1	0/52	Ethernet	Ethernet	Down	10	0	0	0	0

1 All

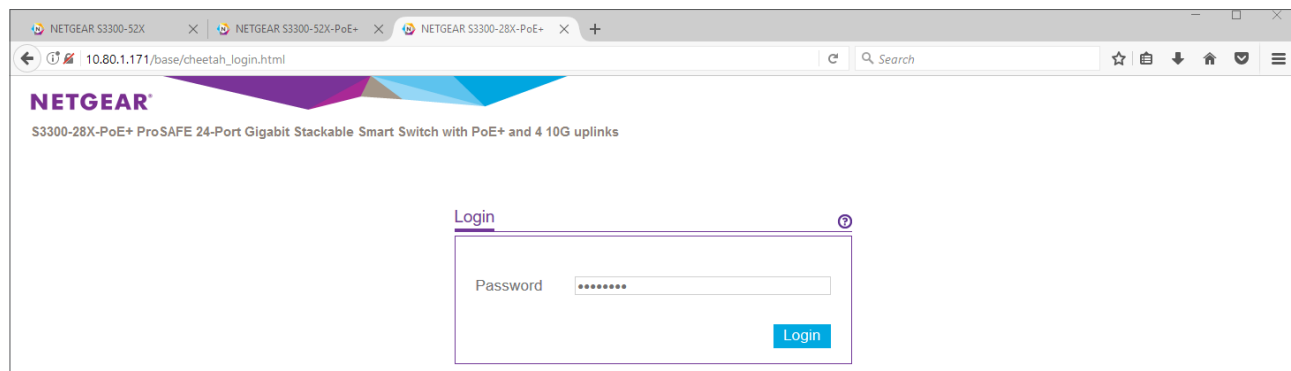
26. Check the Configured Stack Mode for ports 49 and 51. It is normal that the Running Stack Mode is still Ethernet, change of the running mode will require a reboot.



The screenshot shows the Netgear S3300-52X PoE+ web interface. The left sidebar shows the navigation menu with 'Stacking' selected. The main content area displays the 'Stack-port Configuration' table. The table has columns for Unit ID, Port, Configured Stack Mode, Running Stack Mode, Link Status, Link Speed (Gbps), Transmit Data Rate (Mbps), Transmit Error Rate (Errors/s), Total Transmit Errors, and Receive Data Rate. The table shows four rows of data for ports 49, 50, 51, and 52. Ports 49 and 51 are configured as 'Stack' mode, while ports 50 and 52 are configured as 'Ethernet' mode. The Running Stack Mode for all ports is 'Ethernet'.

Unit ID	Port	Configured Stack Mode	Running Stack Mode	Link Status	Link Speed (Gbps)	Transmit Data Rate (Mbps)	Transmit Error Rate (Errors/s)	Total Transmit Errors	Receive Data Rate
1	0/49	Stack	Ethernet	Down	10	0	0	0	0
1	0/50	Ethernet	Ethernet	Down	10	0	0	0	0
1	0/51	Stack	Ethernet	Down	10	0	0	0	0
1	0/52	Ethernet	Ethernet	Down	10	0	0	0	0

27. Log onto the third S3300 switch, default password is "password":



The screenshot shows the Netgear S3300-28X PoE+ web interface. The left sidebar shows the navigation menu with 'Stacking' selected. The main content area displays the 'Login' page. The page has a 'Password' input field and a 'Login' button.

28. Check the firmware version on first System/Management/System Information page:

NETGEAR S3300-28X-PoE+ ProSAFE 24-Port Gigabit Stackable Smart Switch with PoE+ and 4 10G uplinks

Welcome admin

System Information

Product Name: S3300-28X-PoE+ ProSAFE 24-Port Gigabit Stackable Smart Switch with PoE+ and 4 10G uplinks, 6.6.1.7, B1.0.0.10

System Name: [Empty]

System Location: [Empty]

System Contact: [Empty]

Serial Number: 3TM1487980002

System Object OID: 1.3.6.1.4.1.4526.100.10.17

Date & Time: Jan 1 00:47:22 1970 (UTC+0:00)

System Up Time: 0 days 0 hours 47 mins 22 secs

Base MAC Address: 08:BD:43:6B:62:70

Temp(C): 46

Temperature traps range: 0 to 90 degrees (Celsius)

Temperature Sensors

Unit ID	Sensor	Description	Temp(C)	State	Max Temp (C)
1	1	Thermal Diode 1	46	Normal	46

Fans

Slot	FAN	Description	Type	Speed	Duty level(%)	State
1	1	FAN-1	Fixed	4313	27	Operational
1	2	FAN-2	Fixed	4383	27	Operational

Power supplies

Unit	Power supply	Description	Type	State
1	1	AC-1	Fixed	Operational
1	2	RPS4000	Removable	Not powered

29. Go to System/Stacking/Advanced/Stack Configuration: in Stack Configuration, check the box for Unit ID 1 and enter "1" in Switch Priority for the stack master mode. This way, the third S3300 switch will be a simple stack member, when the first and second S3300 switches have higher priority for the stack master role and the backup management role. Click **Apply**:

NETGEAR S3300-28X-PoE+ ProSAFE 24-Port Gigabit Stackable Smart Switch with PoE+ and 4 10G uplinks

Welcome admin

Stacking

Management Unit Selection: 1

Stack Configuration

Stack Sample Mode

Sample Mode: Cumulative

Max samples: [Empty]

Stack Configuration

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1	[Empty]	S3300-28X-PoE+	Unassigned	1	Management	None	OK
1		S3300-28X-PoE+	Unassigned	Unassigned	Management	None	OK

Basic Stack Status

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS
1	S3300-28X-PoE+	3TM1487980002	0 days, 0 hours, 48 minutes, 40 secs	S3300-28X-PoE+	S3300-28X-PoE+	6.6.1.7	6.6.1.7	Non

30. Check if the Switch Priority was correctly updated:

NETGEAR S3300-28X-PoE+ ProSAFE 24-Port Gigabit Stackable Smart Switch with PoE+ and 4 10G uplinks

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Management Device View License Stacking PoE SNMP LLDP Services Timer Schedule

Stacking Management Unit Selection

Management Unit Selected: 1

Stack Configuration

Stack Sample Mode

Sample Mode Cumulative

Max samples

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1		S3300-28X-PoE+	Unassigned	1	Management	None	OK

Basic Stack Status

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS
1	S3300-28X-PoE+	3TM1487980002	0 days, 0 hours, 49 minutes, 38 secs	S3300-28X-PoE+	S3300-28X-PoE+	6.6.1.7	6.6.1.7	None

31. Go to System/Stacking/Advanced/Stack-port Configuration for configuring stacking ports. Check the boxes in front of 0/25 and 0/27 and select "Stack" in Configured Stack Mode. Click **Apply**:

NETGEAR S3300-28X-PoE+ ProSAFE 24-Port Gigabit Stackable Smart Switch with PoE+ and 4 10G uplinks

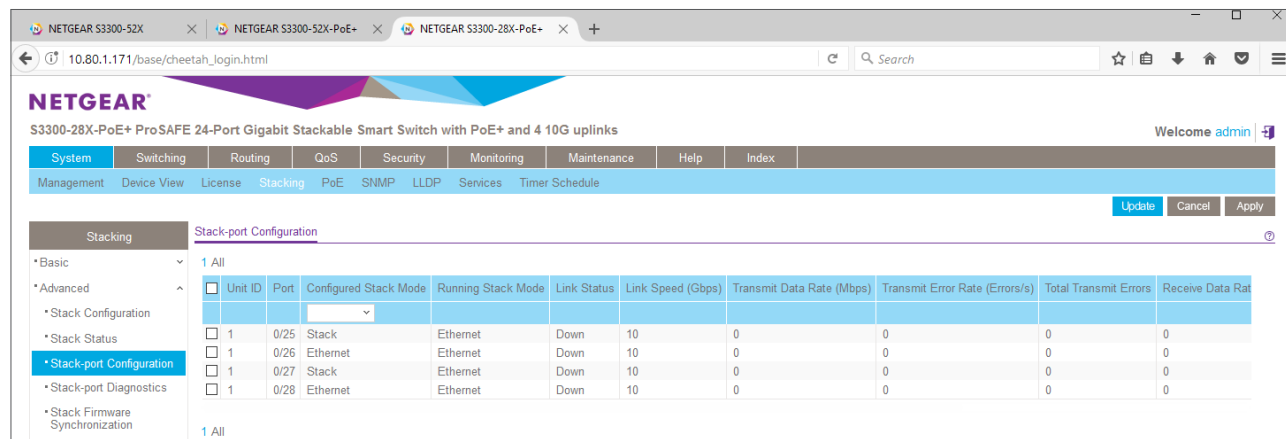
System Switching Routing QoS Security Monitoring Maintenance Help Index

Management Device View License Stacking PoE SNMP LLDP Services Timer Schedule

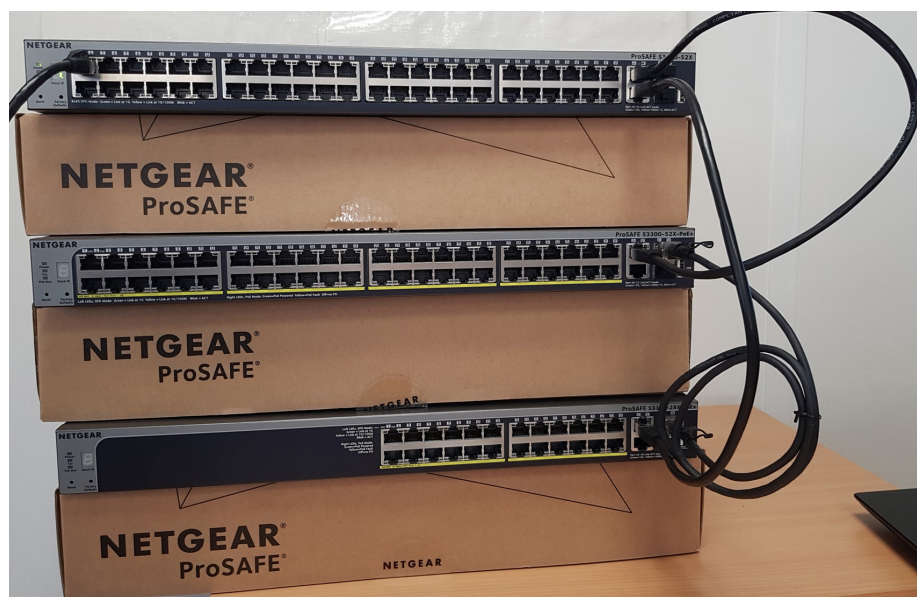
Stacking Stack-port Configuration

Unit ID	Port	Configured Stack Mode	Running Stack Mode	Link Status	Link Speed (Gbps)	Transmit Data Rate (Mbps)	Transmit Error Rate (Errors/s)	Total Transmit Errors	Receive Data Rate
1	0/25	Stack	Ethernet	Down	10	0	0	0	0
1	0/26		Ethernet	Down	10	0	0	0	0
1	0/27	Stack	Ethernet	Down	10	0	0	0	0
1	0/28		Ethernet	Down	10	0	0	0	0

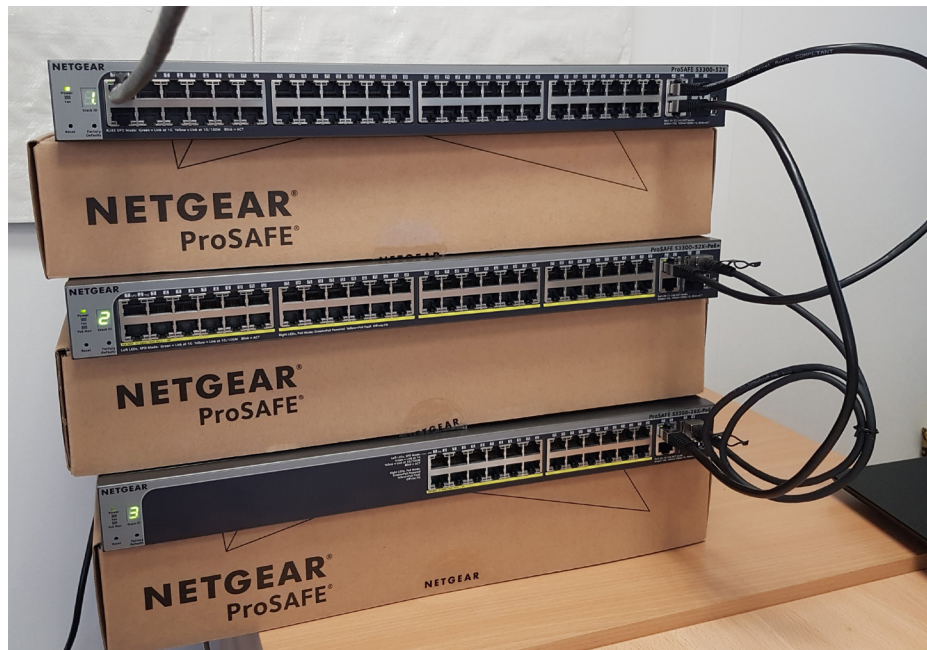
32. Check the Configured Stack Mode for ports 25 and 27. It is normal that the Running Stack Mode is still Ethernet, change of the running mode will require a reboot.



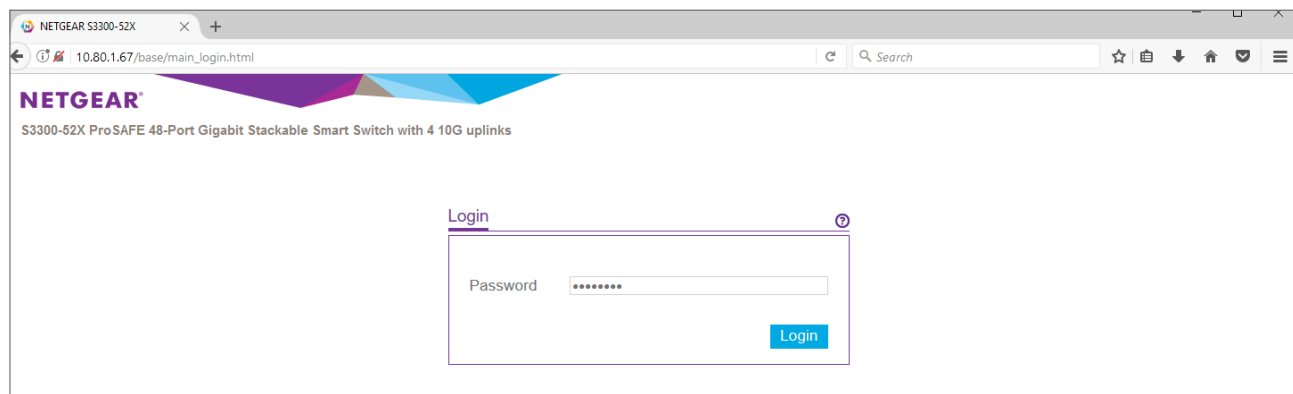
33. Power down the second and third S3300 switches. We can let the first S3300 switch powered on, since it was rebooted during step 20 with correct management priority and stacking ports configuration / running mode. Disconnect previous daisy chain ports between switch 1, switch 2 and switch 3. Connect the stacking ports (switch 1 to switch 2; switch 2 to switch 3; switch 3 to switch 1) as follows:



34. Power on the second S3300 switch. You can wait for 10 seconds or so, before powering on the third S3300 switch. After the boot, they will join the stack in second and third positions. The first S3300 switch shows "1" as Stack ID and the Dot LED located at the bottom right of the Stack ID is solid green: it means the first S3300 switch kept his role as Stack Master for the entire new stack:



35. Log onto the stack: basically, we are logging into the first S3300 switch which acts as the manager for the entire stack. Default password is "password":



36. On first System/Management/System Information page, the stack master shows three units and behaves as a single, “virtual switch”:

NETGEAR S3300-52X

10.80.1.67/base/cheetah_login.html

NETGEAR

S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

Welcome admin

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Management

- System Information
- System CPU Status
- USB Device Information
- Slot Information
- IP Configuration
- IPv6 Network Configuration
- IPv6 Network Neighbor
- Time
- Denial of Service
- DNS
- Green Ethernet

System Information

S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks, 6.6.1.7, B1.0.0.10

Product Name	S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks, 6.6.1.7, B1.0.0.10
System Name	
System Location	
System Contact	
Serial Number	3TU14B7B8069F
System Object OID	1.3.6.1.4.1.4526.100.10.18
Date & Time	Jan 1 01:00:06 1970 (UTC+0:00)
System Up Time	0 days 1 hours 0 mins 6 secs
Base MAC Address	08:BD:43:6B:9E:64
Temp(C)	51
Temperature traps range	0 to 90 degrees (Celsius)

Temperature Sensors

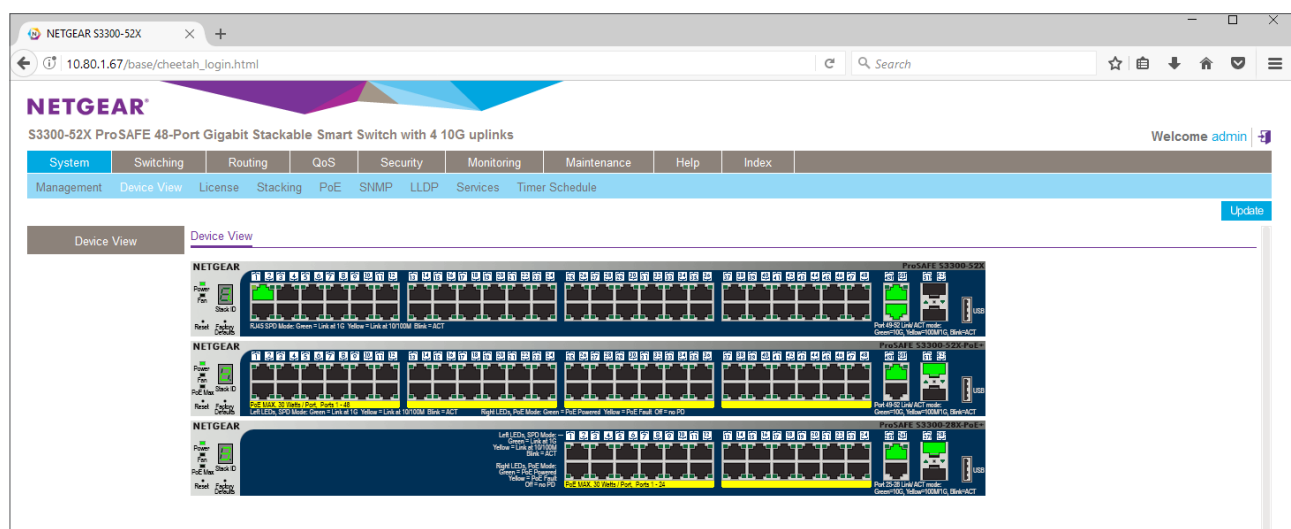
Unit ID	Sensor	Description	Temp(C)	State	Max Temp (C)
1	1	Thermal Diode 2	51	Normal	51
2	1	Thermal Diode 2	44	Normal	44
3	1	Thermal Diode 1	41	Normal	41

Fans

Slot	FAN	Description	Type	Speed	Duty level(%)	State
1	1	FAN-1	Fixed	5037	28	Operational
1	2	FAN-2	Fixed	5018	28	Operational
2	1	FAN-1	Fixed	4787	28	Operational
2	2	FAN-2	Fixed	4821	28	Operational
2	3	FAN-3	Fixed	4927	28	Operational
3	1	FAN-1	Fixed	4364	27	Operational

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37. Go to System/Device View and check the stack topology:



38. Go to System/Stacking/Advanced/Stack Configuration and check Switch Priorities, Management Status, Standby Status (backup stack master) and overall Stack Status:

NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

Welcome admin

Stacking Management Unit Selection

Management Unit Selected: 1

Stack Configuration

Sample Mode: Cumulative

Max samples:

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1		S3300-52X	Unassigned	15	Management	None	OK
2		S3300-52X-PoE+	Unassigned	10	StackMember	Opr Standby	OK
3		S3300-28X-PoE+	Unassigned	1	StackMember	None	OK

Basic Stack Status

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS
1	S3300-52X	3TU14B7B8069F	0 days, 1 hours, 11 minutes, 58 secs	S3300-52X	S3300-52X	6.6.1.7	6.6.1.7	Non
2	S3300-52X-PoE+	3TS14A7D8002C	0 days, 0 hours, 16 minutes, 58 secs	S3300-52X-PoE+	S3300-52X-PoE+	6.6.1.7	6.6.1.7	Non
3	S3300-28X-PoE+	3TM14B7980002	0 days, 0 hours, 15 minutes, 33 secs	S3300-28X-PoE+	S3300-28X-PoE+	6.6.1.7	6.6.1.7	Non

39. Go to System/Stacking/Advanced/Stack-port Configuration: control the stacking ports status on all switches:

NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

Welcome admin

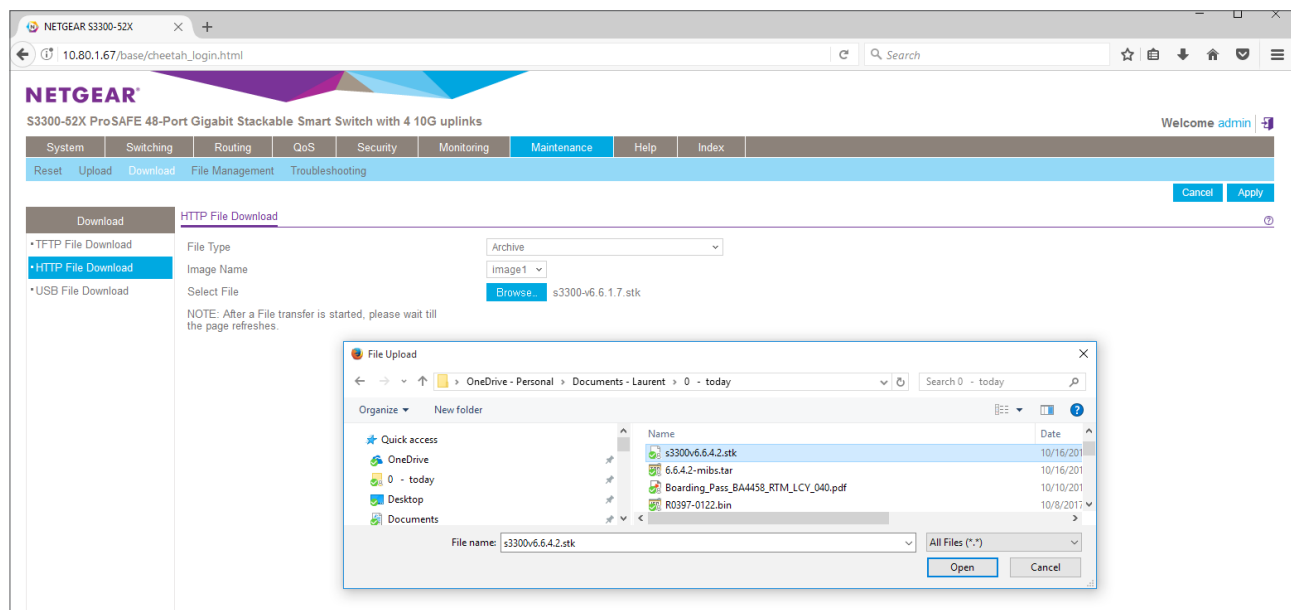
Stacking Stack-port Configuration

1 2 3 All

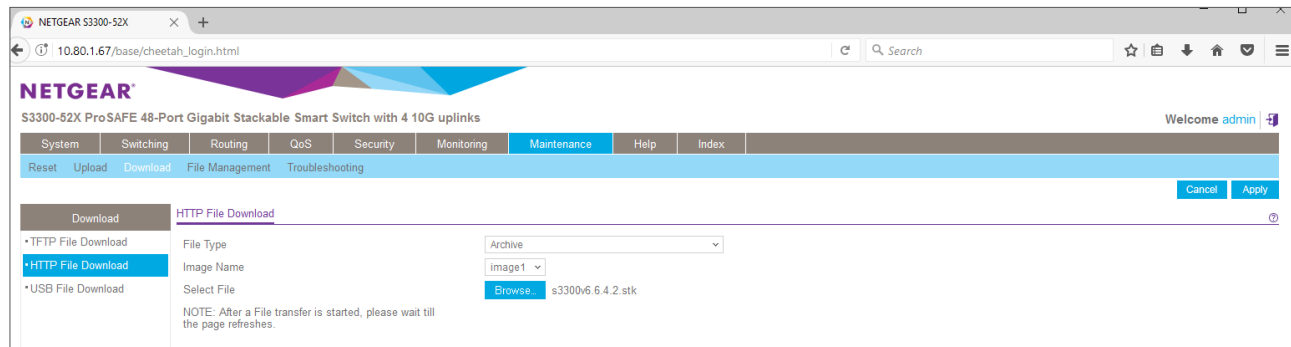
Unit ID	Port	Configured Stack Mode	Running Stack Mode	Link Status	Link Speed (Gbps)	Transmit Data Rate (Mbps)	Transmit Error Rate (Errors/s)	Total Transmit Errors	Receive Data Rate
1	0/49	Stack	Stack	Up	10	0	0	0	0
1	0/50	Stack	Stack	Up	10	0	0	0	0
1	0/51	Ethernet	Ethernet	Down	10	0	0	0	0
1	0/52	Ethernet	Ethernet	Down	10	0	0	0	0
2	0/49	Stack	Stack	Up	10	0	0	0	0
2	0/50	Ethernet	Ethernet	Down	10	0	0	0	0
2	0/51	Stack	Stack	Up	10	0	0	0	0
2	0/52	Ethernet	Ethernet	Down	10	0	0	0	0
3	0/25	Stack	Stack	Up	10	0	0	0	0
3	0/26	Ethernet	Ethernet	Down	10	0	0	0	0
3	0/27	Stack	Stack	Up	10	0	0	0	0
3	0/28	Ethernet	Ethernet	Down	10	0	0	0	0

1 2 3 All

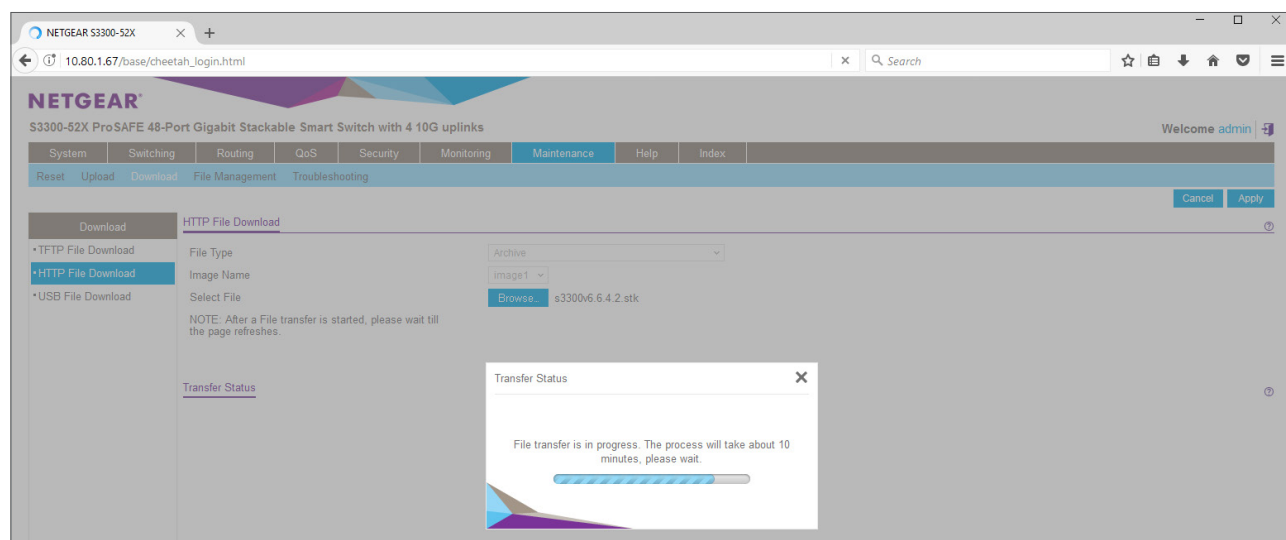
40. We have a stack of three S3300 switches, running 6.6.1.7 version firmware. We now want to prepare this stack for mixed stacking with M4300. The S3300 switches need to be upgraded to 6.6.4.x image before they can accept M4300 switches in their stack. Please download S3300-6.6.4.2 firmware image (or any 6.6.4.x newer image) from the S3300 models support page, for instance here: [https://www.netgear.com/support/product/S3300-52X%20\(GS752TX\).aspx#download](https://www.netgear.com/support/product/S3300-52X%20(GS752TX).aspx#download). To upgrade the stack, go to Maintenance/Download/HTTP File Download, click Browse, find the image that you previously downloaded, select it and click **Open**:



41. Click **Apply**:



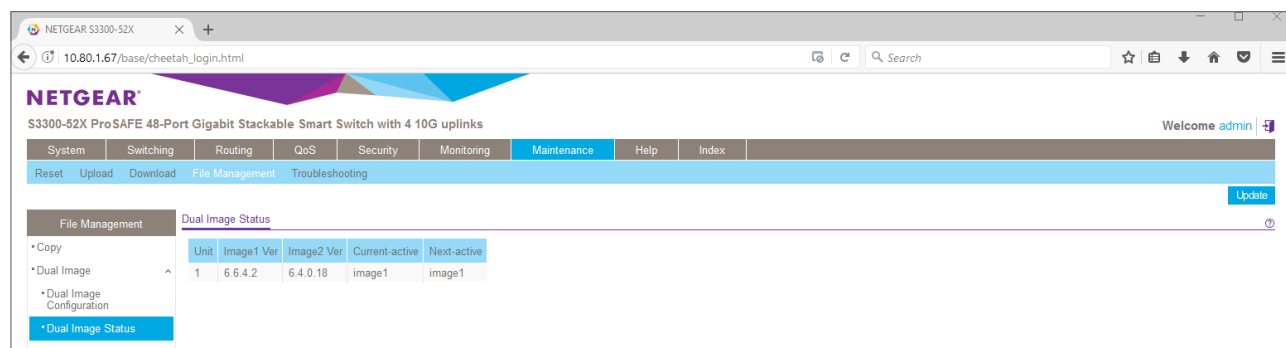
42. The following screen will show during the file transfer:



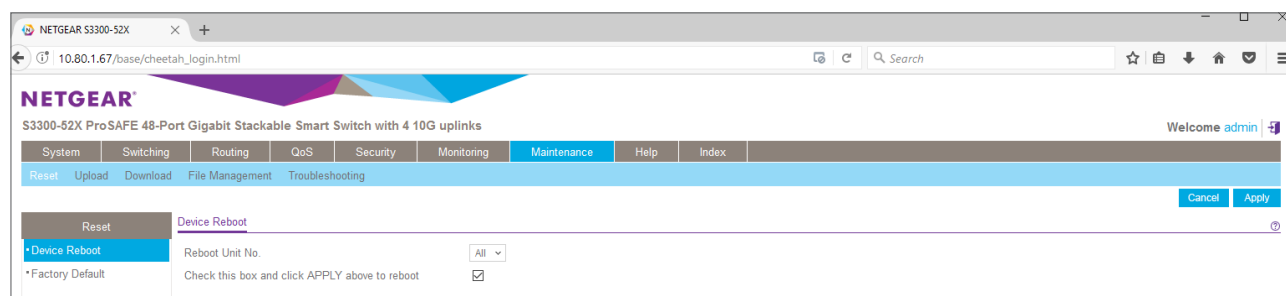
43. The following message is indicating when the file transfer was completed:



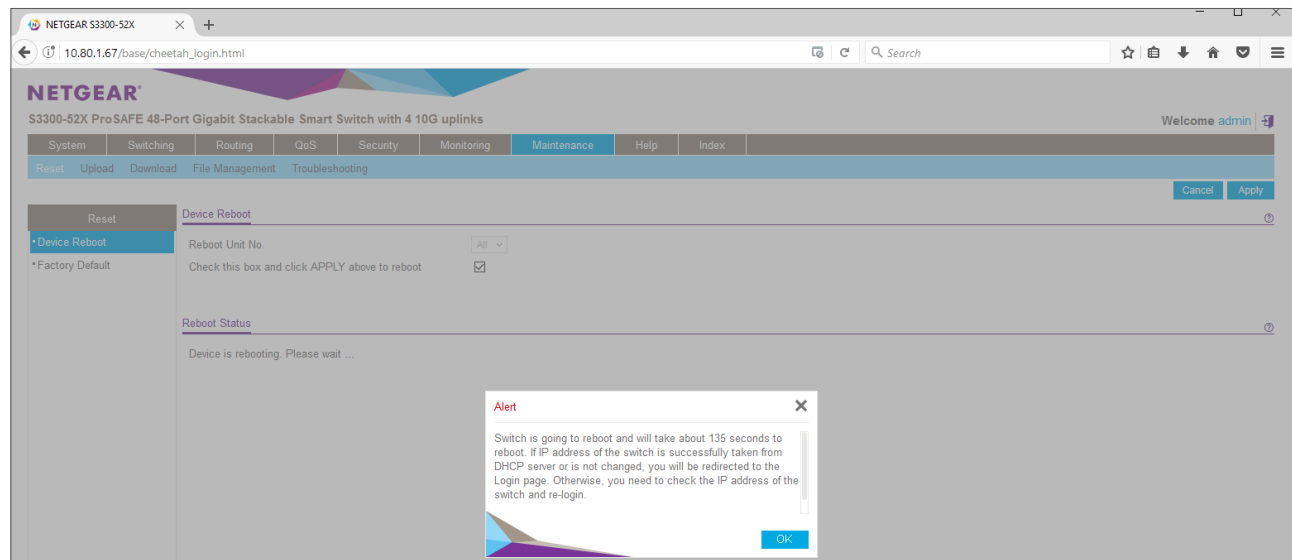
44. Go to Maintenance/File Management/Dual Image/Dual Image Status and check if 6.6.4.2 is set to be the Next-Active image:



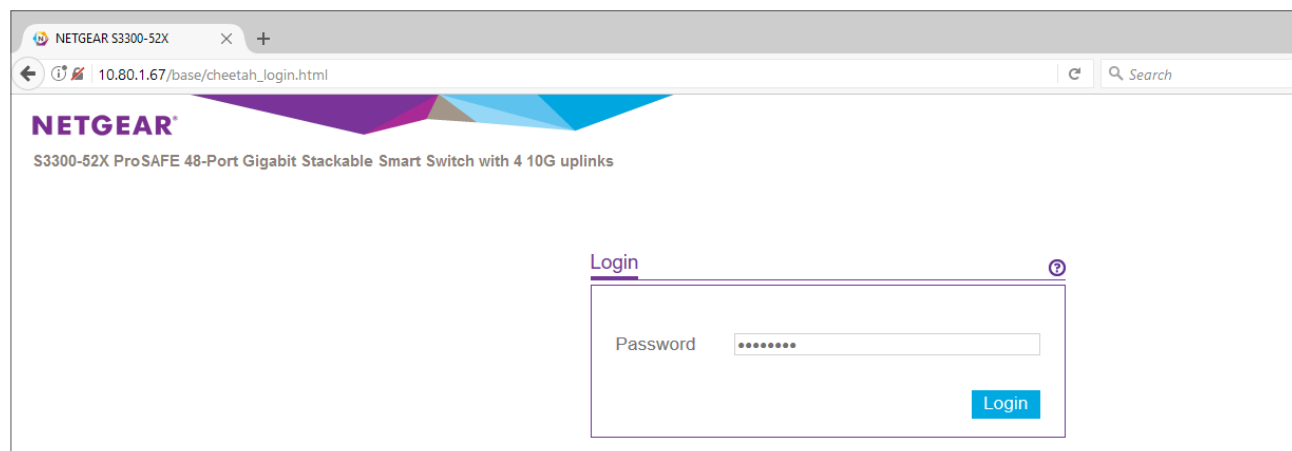
45. We need to reboot the entire stack to trigger the firmware upgrade all at once. Go to Maintenance/Reset/Device Reboot, select All units, check the box and click **Apply**:



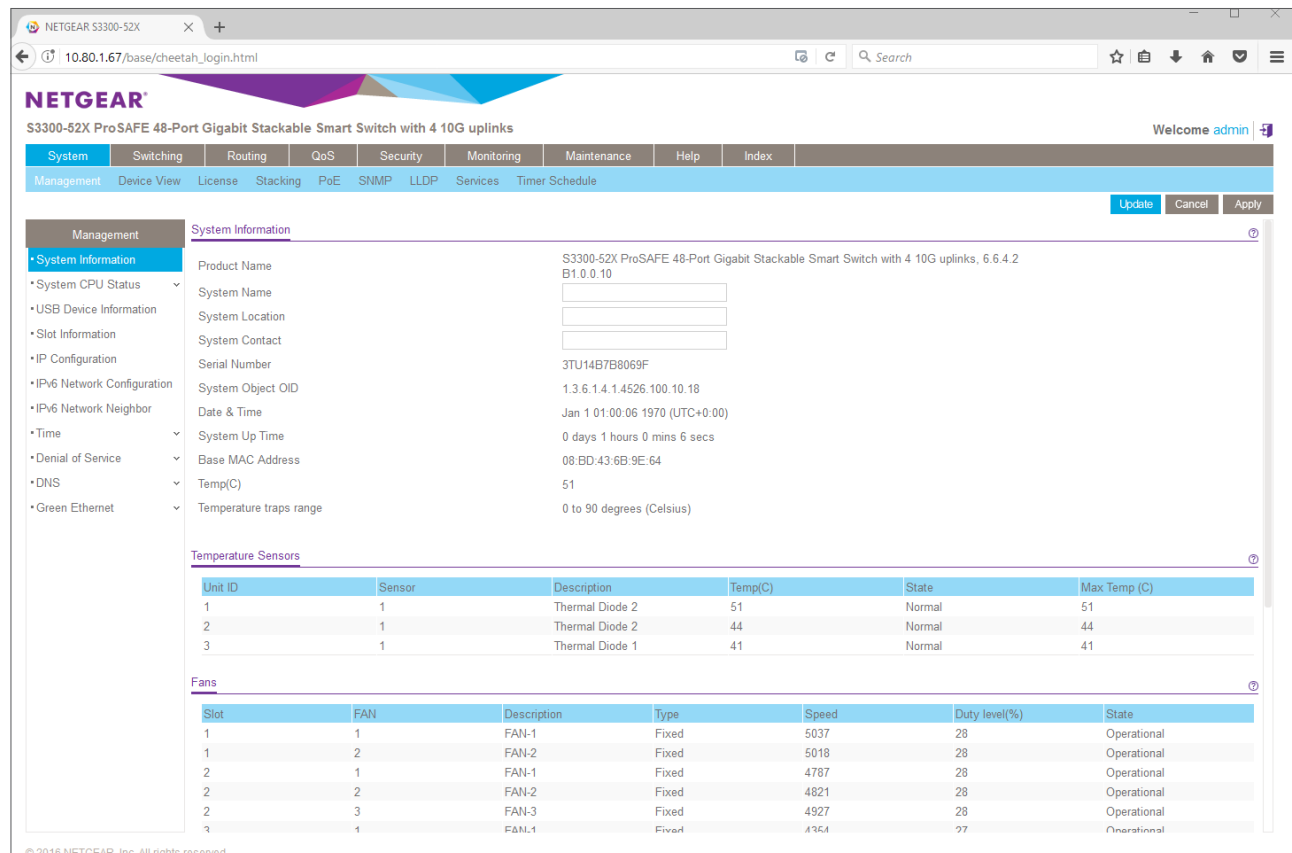
46. Click **OK**:



47. Wait until the stack is up and running again. Log into the stack (default password is "password"):



48. Check the 6.6.4.2 firmware on first System/Management/System Information page:



NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

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Update | Cancel | Apply

Management

- System Information
- System CPU Status
- USB Device Information
- Slot Information
- IP Configuration
- IPv6 Network Configuration
- IPv6 Network Neighbor
- Time
- Denial of Service
- DNS
- Green Ethernet

System Information

Product Name: S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks, 6.6.4.2
 B1.0.0.10

System Name:

System Location:

System Contact:

Serial Number: 3TU14B7B8069F

System Object OID: 1.3.6.1.4.1.4526.100.10.18

Date & Time: Jan 1 01:00:06 1970 (UTC+0:00)

System Up Time: 0 days 1 hours 0 mins 6 secs

Base MAC Address: 08:BD:43:6B:9E:64

Temp(C): 51

Temperature traps range: 0 to 90 degrees (Celsius)

Temperature Sensors

Unit ID	Sensor	Description	Temp(C)	State	Max Temp (C)
1	1	Thermal Diode 2	51	Normal	51
2	1	Thermal Diode 2	44	Normal	44
3	1	Thermal Diode 1	41	Normal	41

Fans

Slot	FAN	Description	Type	Speed	Duty level(%)	State
1	1	FAN-1	Fixed	5037	28	Operational
1	2	FAN-2	Fixed	5018	28	Operational
2	1	FAN-1	Fixed	4787	28	Operational
2	2	FAN-2	Fixed	4821	28	Operational
2	3	FAN-3	Fixed	4927	28	Operational
3	1	FAN-1	Fixed	4764	27	Operational

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49. Insert a M4300 switch in the topology: daisy chain it with the first S3300 and power it on:



50. Log back onto the S3300 stack. We are going to use the LLDP table to learn the M4300 switch (DHCP Client) IP address. Go to System/LLDP/Advanced/Neighbors Information: click on the MSAP entry showing the M4300 switch:

The screenshot shows the NETGEAR S3300-52X web interface. The left sidebar has a menu with 'LLDP' expanded, showing 'Neighbors Information' selected. The main content area displays a table of LLDP neighbors. A modal window is open, showing details for the neighbor with Chassis ID 08:BD:43:71:6D:C5 and Port ID 1/0/13.

MSAP Entry	Local Port	Chassis ID Subtype	Chassis ID	Port ID Subtype	Port ID	System Name
5	1/g1	MAC Address	00:E0:95:13:52:45	Local	1/0/19	
8	1/g11	MAC Address	08:BD:43:71:6D:C5	Local	1/0/13	

Chassis ID	08:BD:43:71:6D:C5		
Port ID SubType	Local		
Port ID	1/0/13		
Port Description	1/0/13		
System Name			
System Description	M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+, 12.0.2.15, 1.0.0.8		
System Capabilities	bridge, router		
Managed Address			
Address SubType	Address	Interface SubType	Interface Number
IPv4	10.80.1.76	ifIndex	417
MAC/PHY Details			

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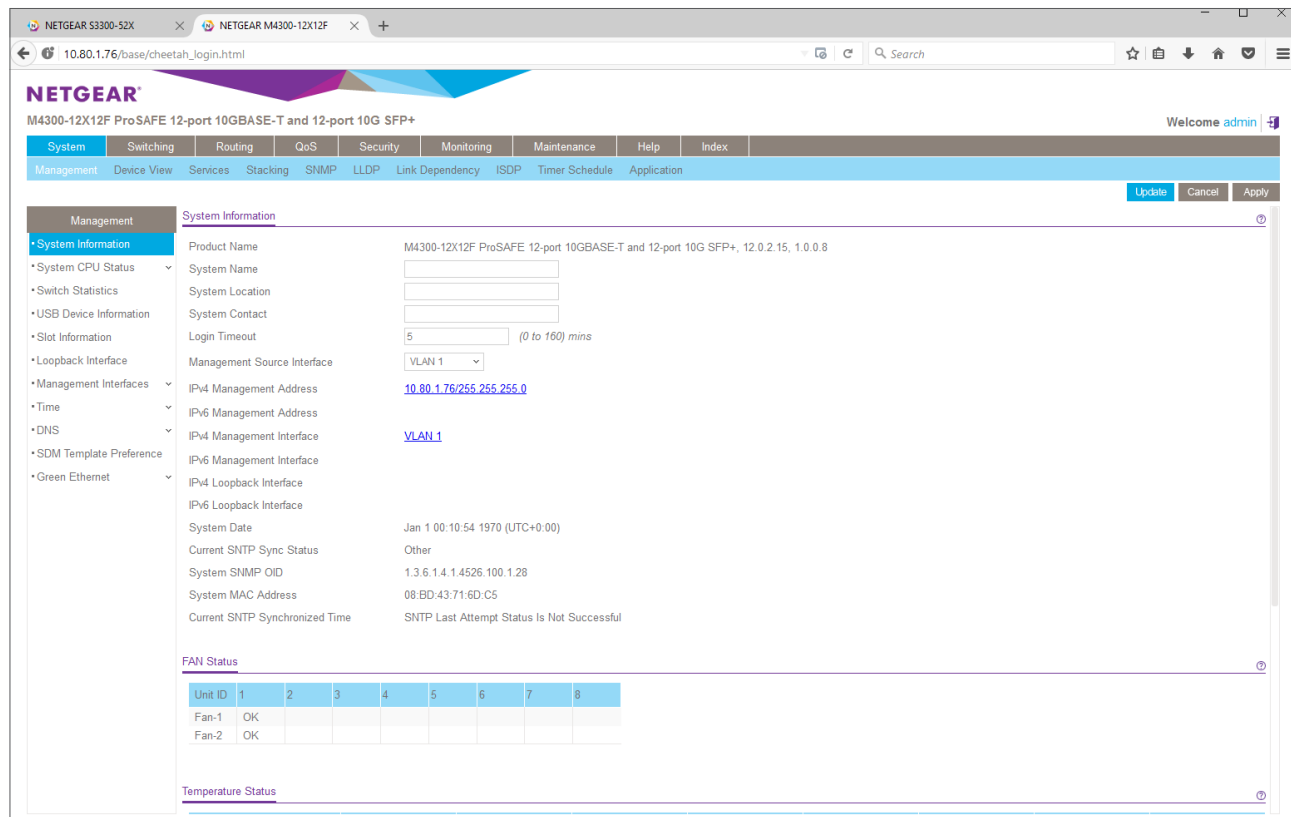
51. Log onto the M4300 switch. Default Username is "admin" and default password remains empty:

The screenshot shows the NETGEAR M4300-12X12F web interface. The page title is 'M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+'. The main content area displays a 'Login' form with the following fields:

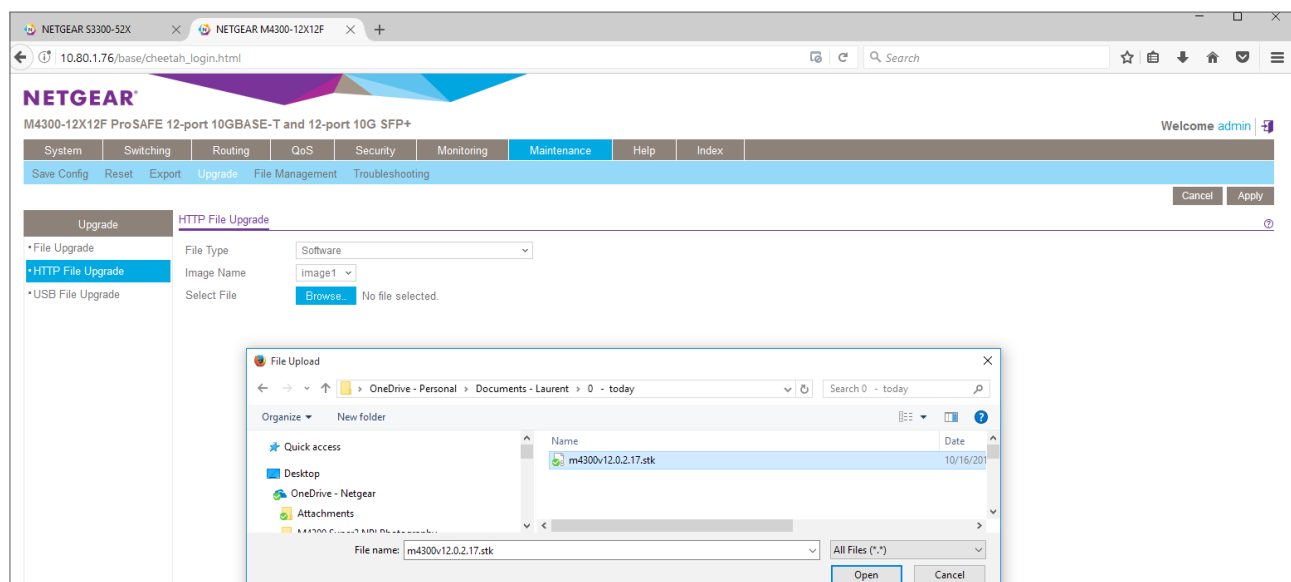
- Username*: admin
- Password: (empty)

A 'Login' button is located at the bottom right of the form.

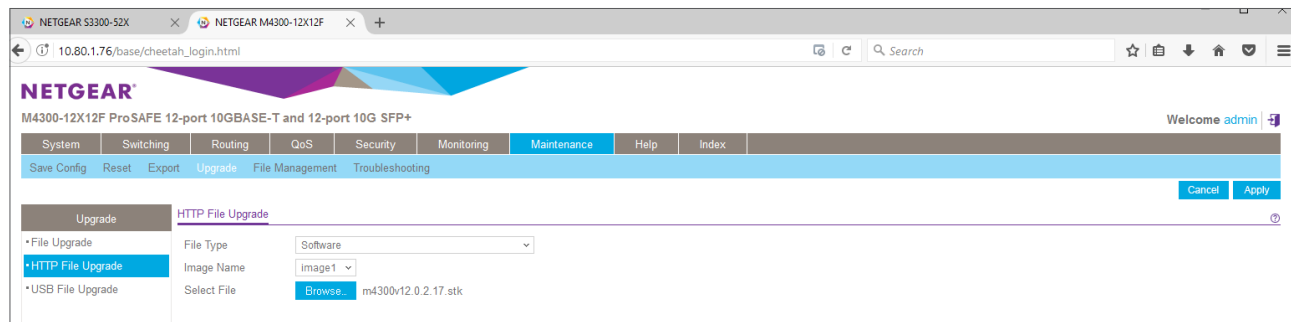
52. Check the firmware version on first System/Management/System Information page:



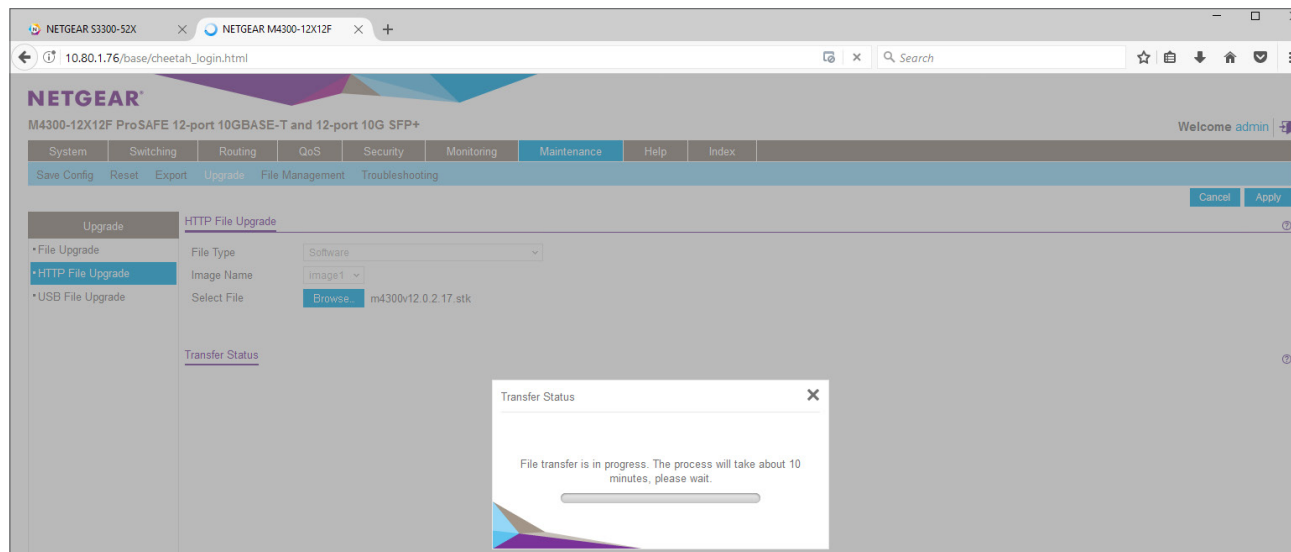
53. We have a M4300 switch, running 12.0.2.15 version firmware. We want to prepare this switch for mixed stacking with S3300 and it requires "M4300-6.6.4.2" respective image. First, the M4300 needs to be upgraded to 12.0.2.17 image (or newer) before it can accept 6.6.4x image. Please download 12.0.2.17 firmware image (or any 12.x newer image) from the M4300 models support page, for instance here: <https://www.netgear.com/support/product/M4300-12X12F.aspx#download>. To upgrade the M4300, go to Maintenance/Upgrade/HTTP File Upgrade, click **Browse**, find the image that you previously downloaded, select it and click **Open**:



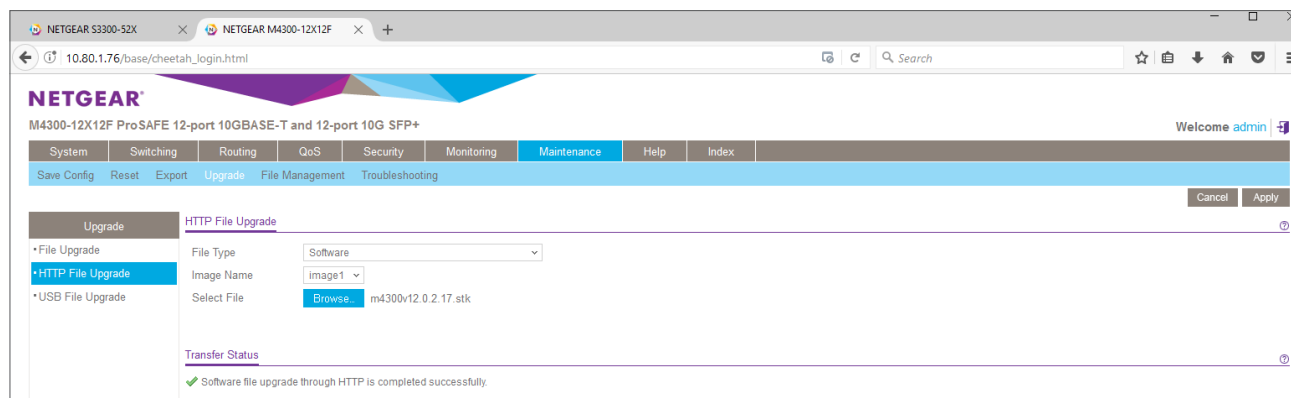
54. Click **Apply**:



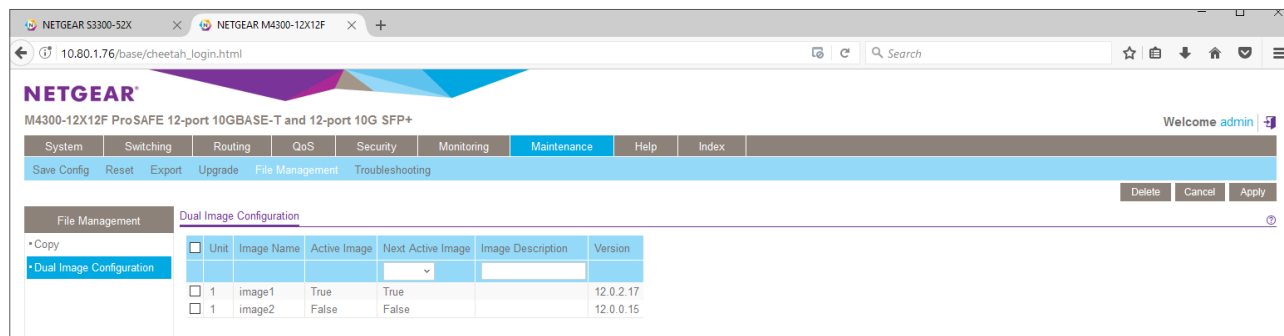
55. The following screen will show during the file transfer:



56. The following message is indicating when the file transfer was completed:



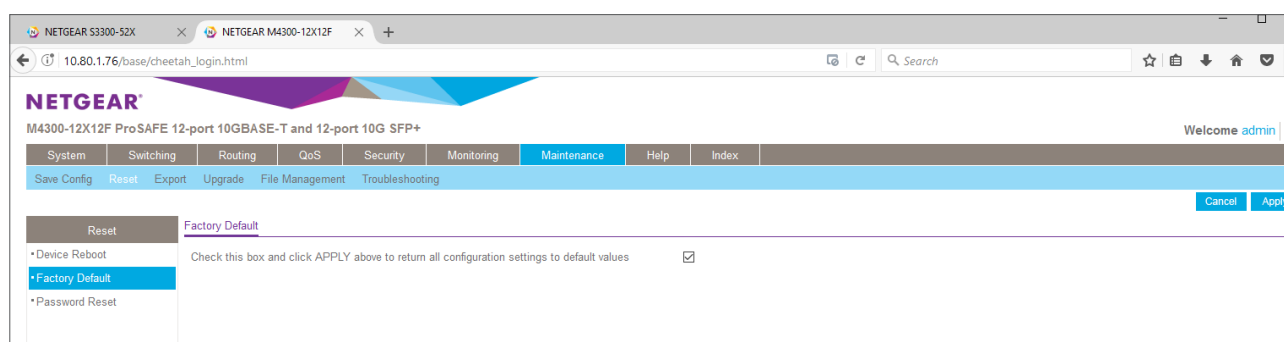
57. Go to Maintenance/File Management/Dual Image Configuration and check if 12.0.2.17 is set to become the Next Active Image after reboot:



The screenshot shows the 'Dual Image Configuration' page. On the left, under 'File Management', the 'Dual Image Configuration' option is selected. The main area contains a table with columns: Unit, Image Name, Active Image, Next Active Image, Image Description, and Version.

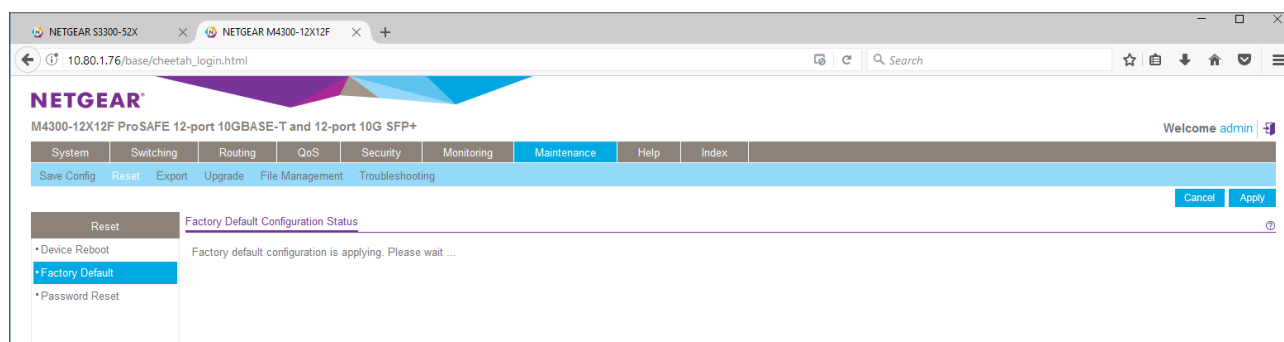
Unit	Image Name	Active Image	Next Active Image	Image Description	Version
<input type="checkbox"/> 1	image1	True	True		12.0.2.17
<input type="checkbox"/> 1	image2	False	False		12.0.0.15

58. Go to Maintenance/Reset/Factory Default, check the box and click **Apply**:



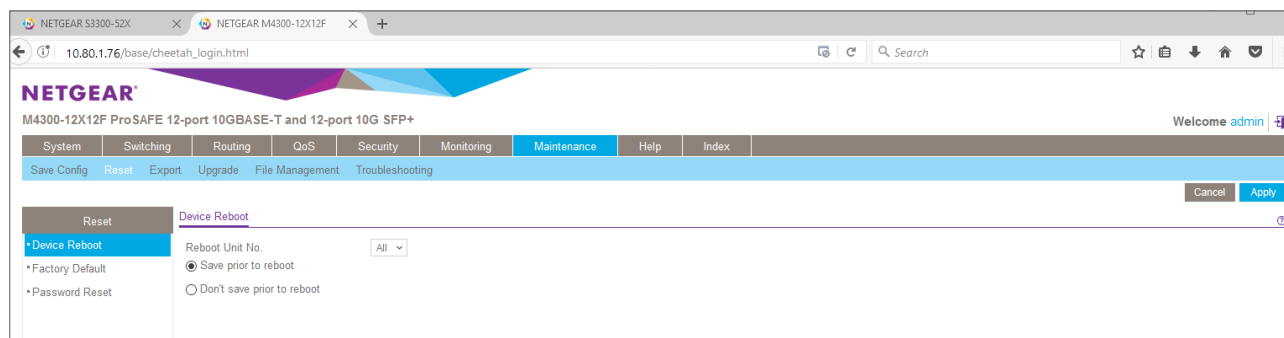
The screenshot shows the 'Factory Default' page. On the left, under 'Reset', the 'Factory Default' option is selected. The main area has a checkbox labeled 'Check this box and click APPLY above to return all configuration settings to default values', which is checked. 'Cancel' and 'Apply' buttons are at the top right.

59. The following screen will show during the configuration reload:



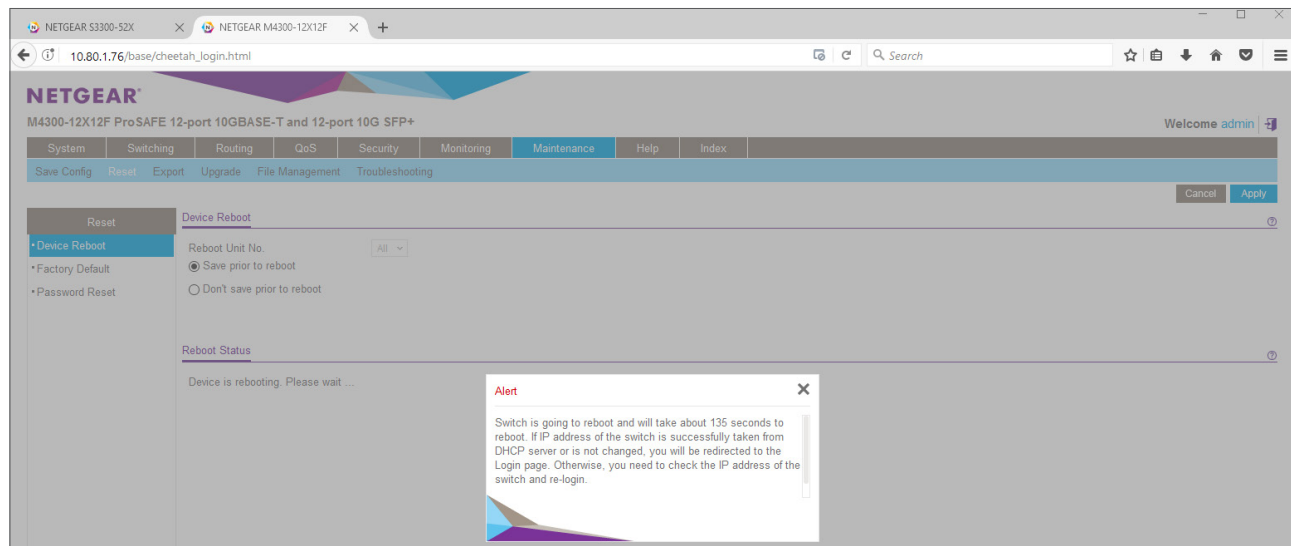
The screenshot shows the 'Factory Default Configuration Status' page. On the left, under 'Reset', the 'Factory Default' option is selected. The main area displays the message: 'Factory default configuration is applying. Please wait ...'. 'Cancel' and 'Apply' buttons are at the top right.

60. Go to Maintenance/Reset/Device Reboot and click **Apply**:

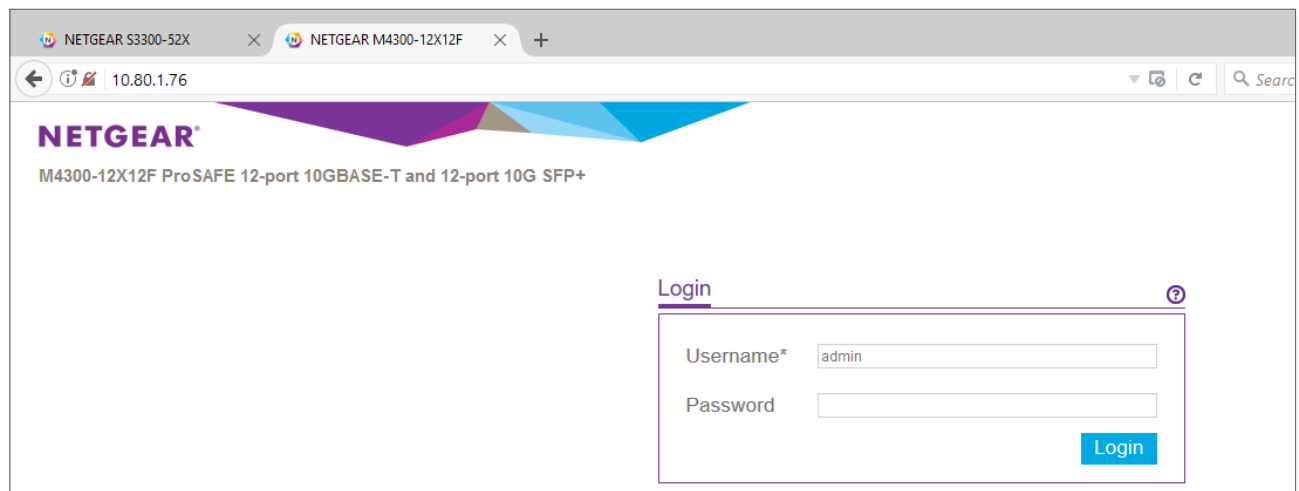


The screenshot shows the 'Device Reboot' page. On the left, under 'Reset', the 'Device Reboot' option is selected. The main area has a 'Reboot Unit No.' dropdown set to 'All' and two radio buttons: 'Save prior to reboot' (selected) and 'Don't save prior to reboot'. 'Cancel' and 'Apply' buttons are at the top right.

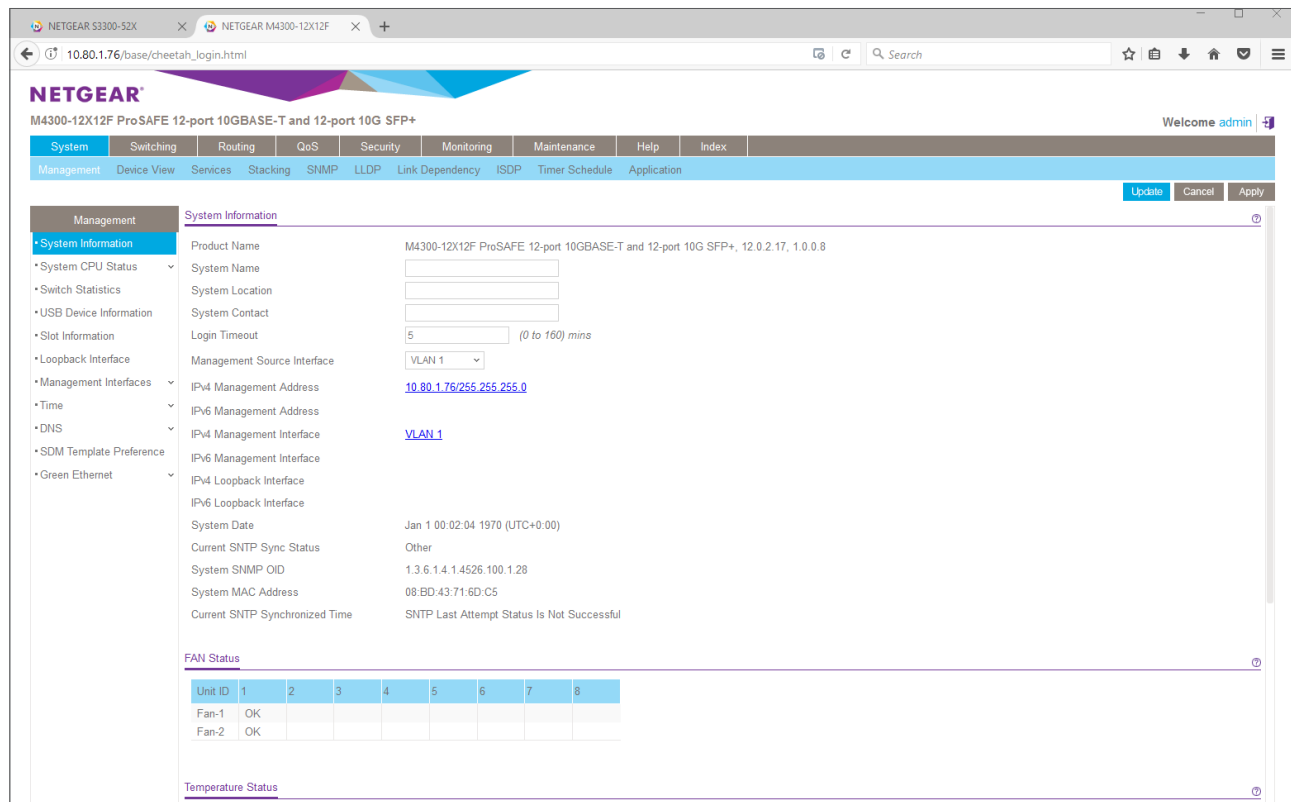
61. Wait until the M4300 is up and running again:



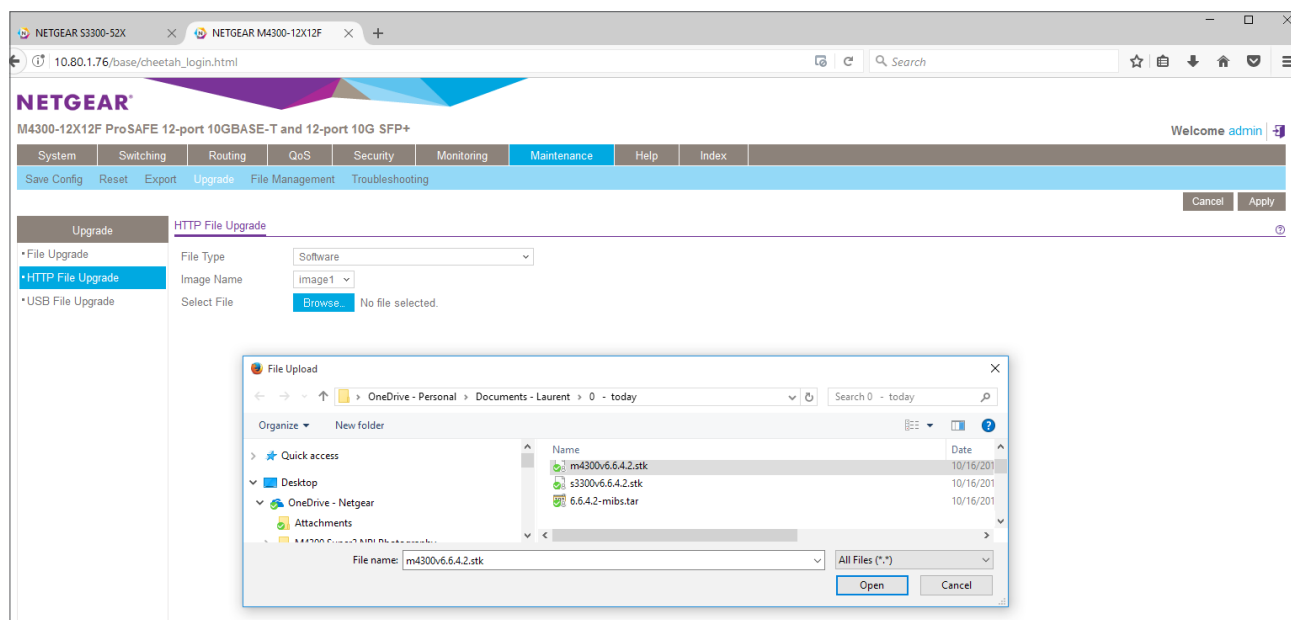
62. Relog onto the M4300 switch. Default Username is "admin" and default password remains empty:



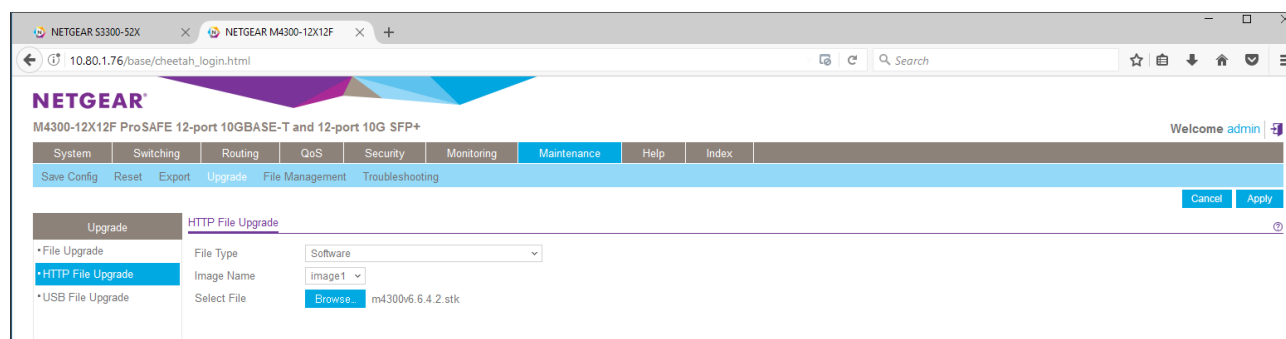
63. Check the firmware version on first System/Management/System Information page:



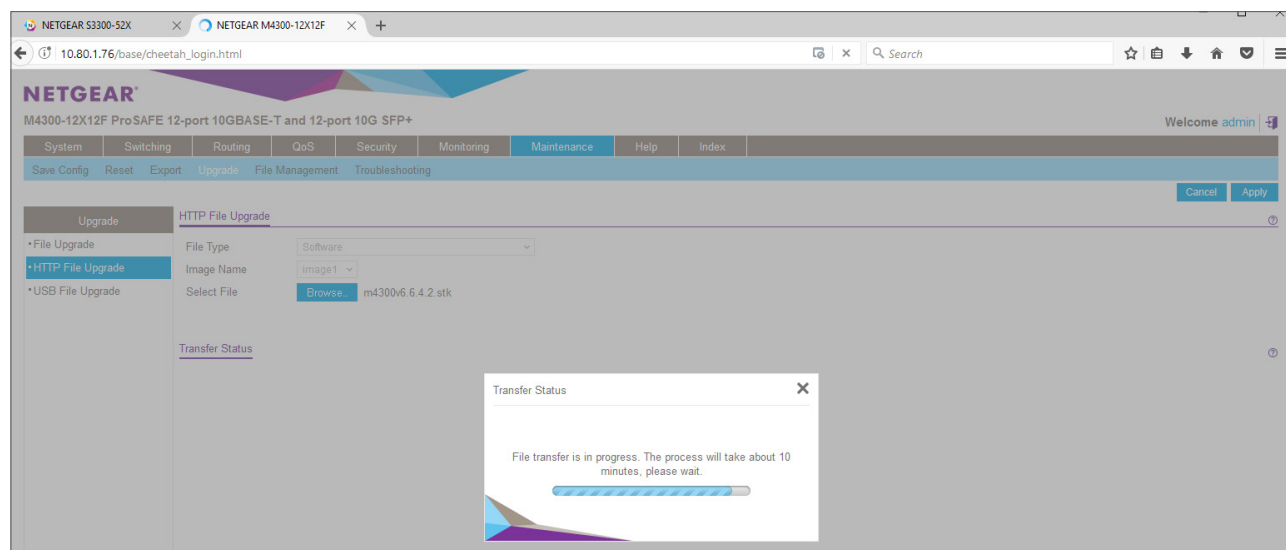
64. We have a M4300 switch running minimum 12.0.2.17 image. We can upgrade this switch to its respective 6.6.4.x image before it can join a S3300 stack. Please download M4300-6.6.4.2 firmware image (or any 6.6.4.x newer image, it must be consistent with the S3300 stack running image) from the S3300 models support page, for instance here: [https://www.netgear.com/support/product/S3300-52X%20\(GS752TX\).aspx#download](https://www.netgear.com/support/product/S3300-52X%20(GS752TX).aspx#download). To upgrade the M4300, go to Maintenance/Upgrade/HTTP File Upgrade, click Browse, find the image that you previously downloaded, select it and click **Open**:



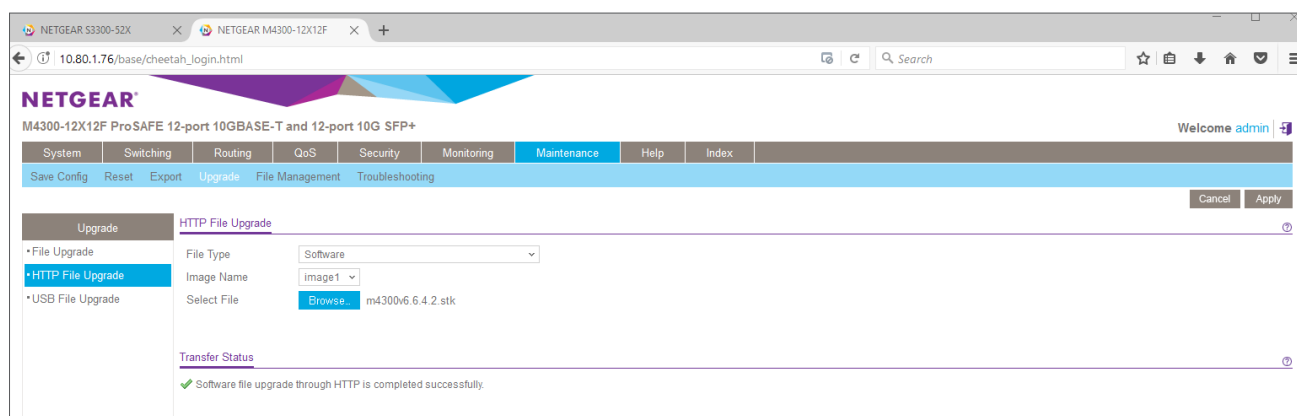
65. Click **Apply**:



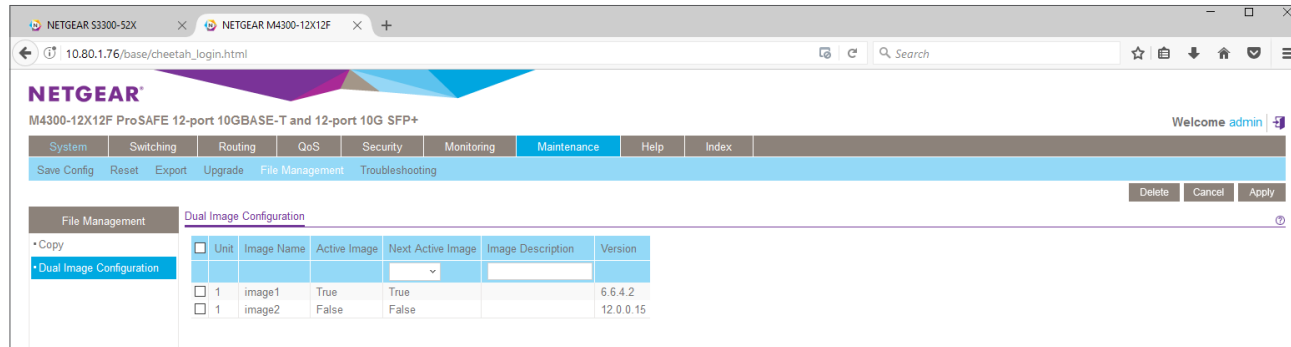
66. The following screen will show during the file transfer:



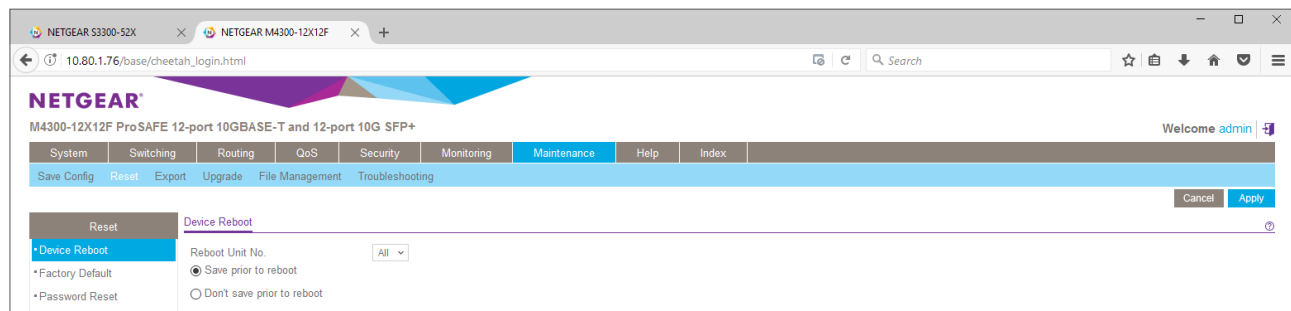
67. The following message is indicating when the file transfer was completed:



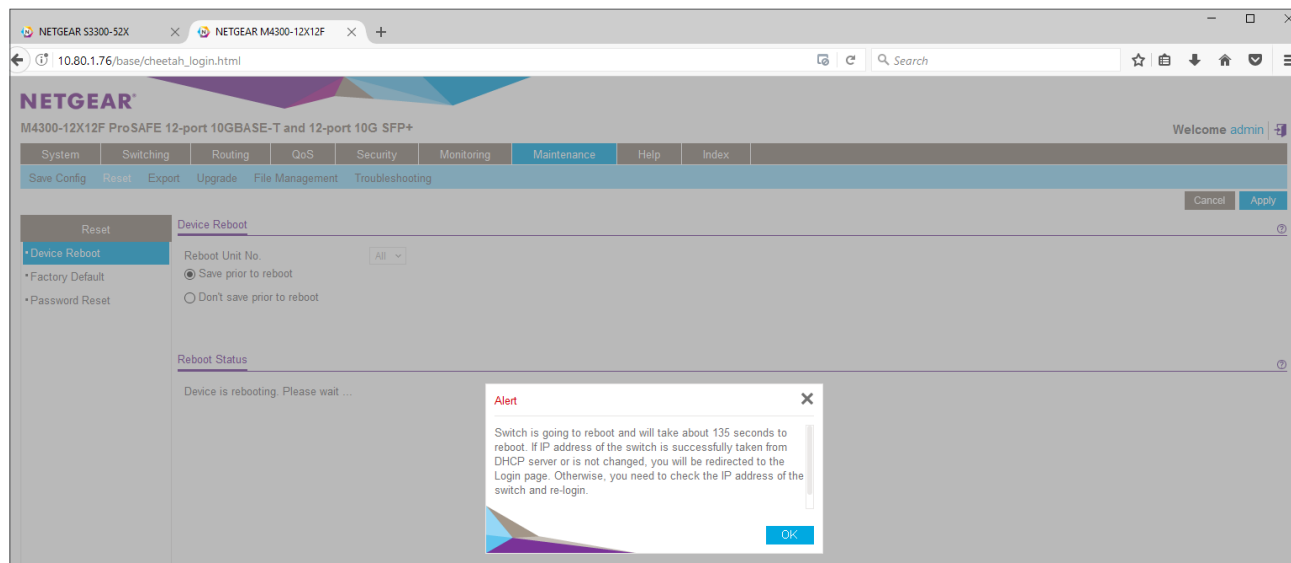
68. Go to Maintenance/File Management/Dual Image Configuration and check if 6.6.4.2 is set to become the Next Active Image after reboot:



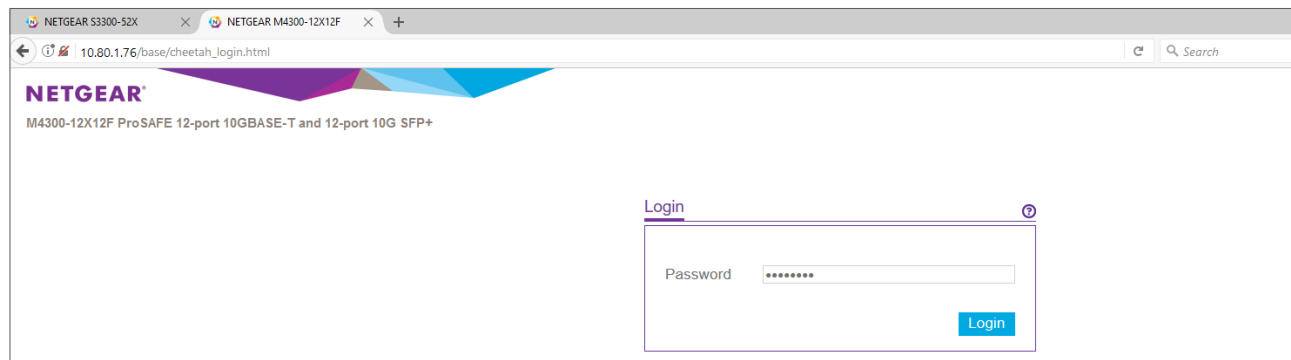
69. Go to Maintenance/Reset/Device Reboot and click **Apply**:



70. Wait until the M4300 is up and running again:



71. Relog onto the M4300 switch. Default Username is “admin” and default password remains empty:



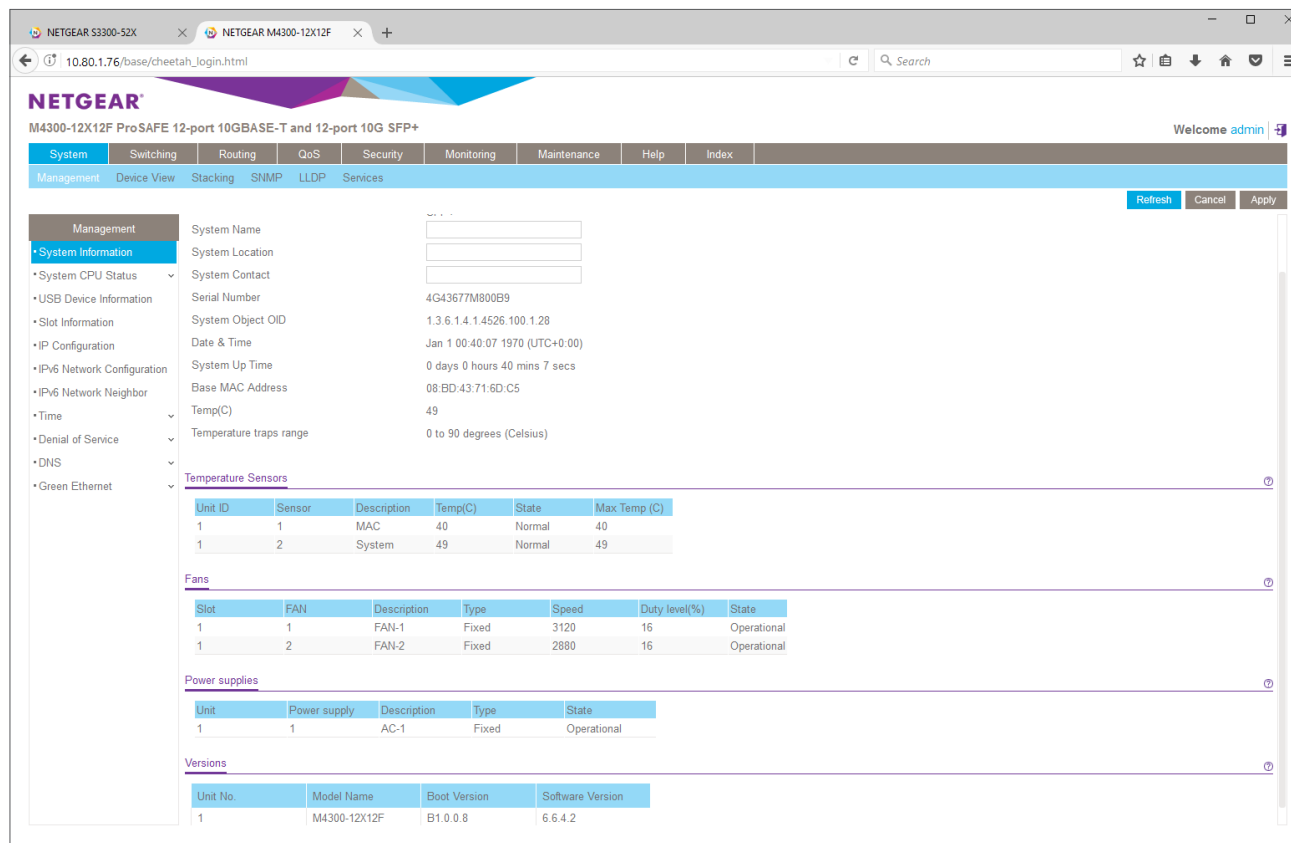
NETGEAR M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+

Login

Password

Login

72. Check the firmware version on first System/Management/System Information page:



NETGEAR M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+

Welcome admin

System Switching Routing QoS Security Monitoring Maintenance Help Index

Management Device View Stacking SNMP LLDP Services

Refresh Cancel Apply

Management

- System Information
- System CPU Status
- USB Device Information
- Slot Information
- IP Configuration
- IPv6 Network Configuration
- IPv6 Network Neighbor
- Time
- Denial of Service
- DNS
- Green Ethernet

System Name

System Location

System Contact

Serial Number 4G43677M800B9

System Object OID 1.3.6.1.4.1.4526.100.1.28

Date & Time Jan 1 00:40:07 1970 (UTC+0:00)

System Up Time 0 days 0 hours 40 mins 7 secs

Base MAC Address 08:BD:43:71:6D:C5

Temp(C) 49

Temperature traps range 0 to 90 degrees (Celsius)

Temperature Sensors

Unit ID	Sensor	Description	Temp(C)	State	Max Temp (C)
1	1	MAC	40	Normal	40
1	2	System	49	Normal	49

Fans

Slot	FAN	Description	Type	Speed	Duty level(%)	State
1	1	FAN-1	Fixed	3120	16	Operational
1	2	FAN-2	Fixed	2880	16	Operational

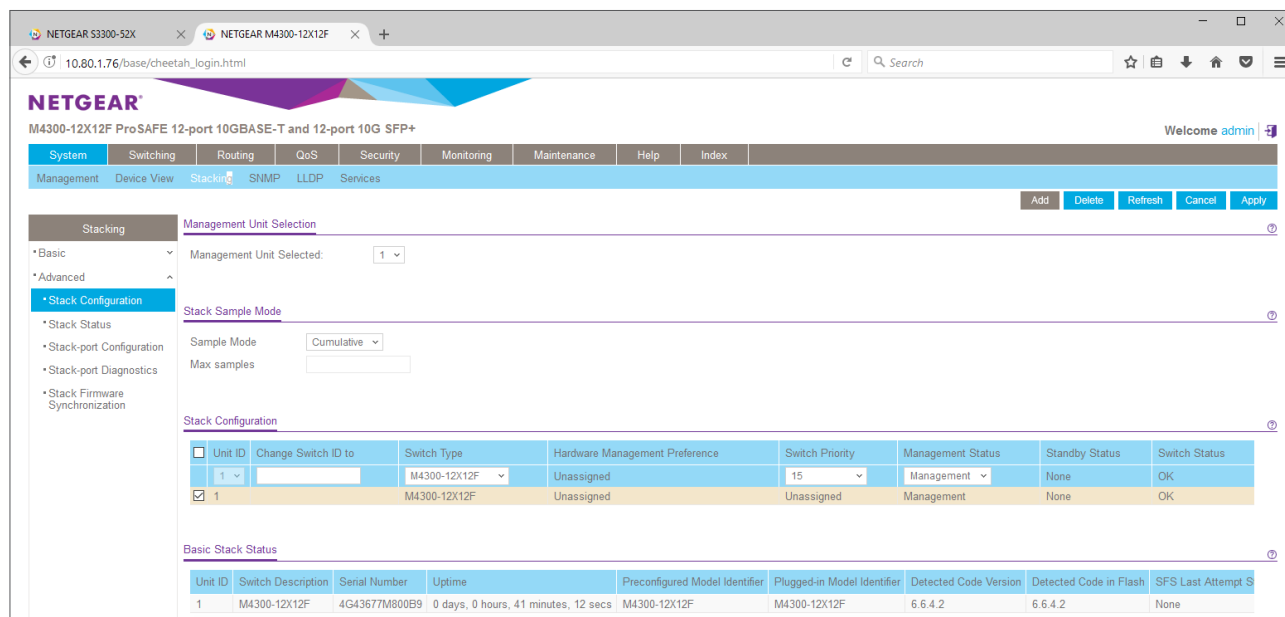
Power supplies

Unit	Power supply	Description	Type	State
1	1	AC-1	Fixed	Operational

Versions

Unit No.	Model Name	Boot Version	Software Version
1	M4300-12X12F	B1.0.0.8	6.6.4.2

73. Go to System/Stacking/Advanced/Stack Configuration: in Stack Configuration, check the box for Unit ID 1 and enter "15" in Switch Priority for the stack master mode. This way, the M4300 switch will be the Stack Master during each master reelection, and the first S3300 switch will have the second highest priority for the backup management role. Click **Apply**:



NETGEAR M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+

System Switching Routing QoS Security Monitoring Maintenance Help Index

Management Device View Stacking SNMP LLDP Services

Stacking Management Unit Selection

Management Unit Selected: 1

Stack Sample Mode

Sample Mode: Cumulative

Max samples:

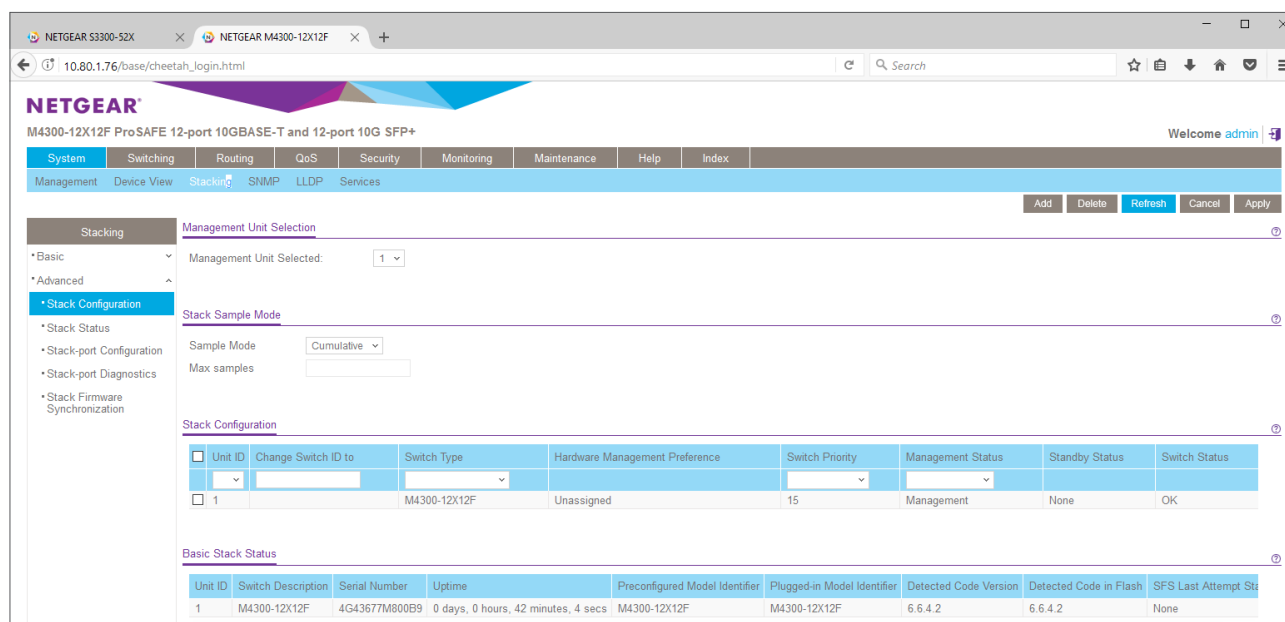
Stack Configuration

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1		M4300-12X12F	Unassigned	15	Management	None	OK

Basic Stack Status

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS Last Attempt S
1	M4300-12X12F	4G43677M800B9	0 days, 0 hours, 41 minutes, 12 secs	M4300-12X12F	M4300-12X12F	6.6.4.2	6.6.4.2	None

74. Check if the switch priority was correctly updated:



NETGEAR M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+

System Switching Routing QoS Security Monitoring Maintenance Help Index

Management Device View Stacking SNMP LLDP Services

Stacking Management Unit Selection

Management Unit Selected: 1

Stack Sample Mode

Sample Mode: Cumulative

Max samples:

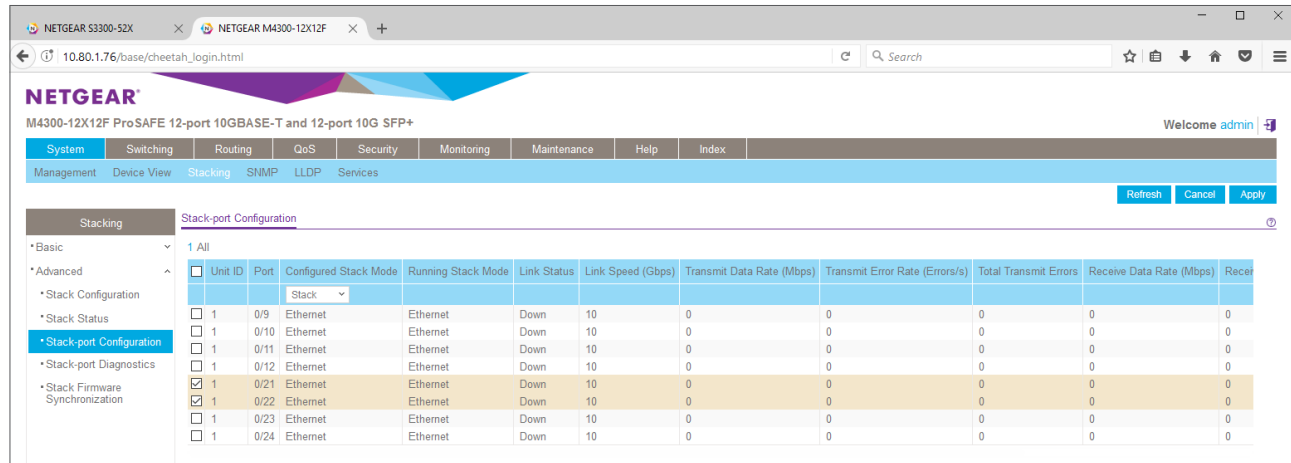
Stack Configuration

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1		M4300-12X12F	Unassigned	15	Management	None	OK

Basic Stack Status

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS Last Attempt S
1	M4300-12X12F	4G43677M800B9	0 days, 0 hours, 42 minutes, 4 secs	M4300-12X12F	M4300-12X12F	6.6.4.2	6.6.4.2	None

75. Go to System/Stacking/Advanced/Stack-port Configuration for configuring stacking ports. Check the boxes in front of 0/21 and 0/22 and select “Stack” in Configured Stack Mode. Click **Apply**:

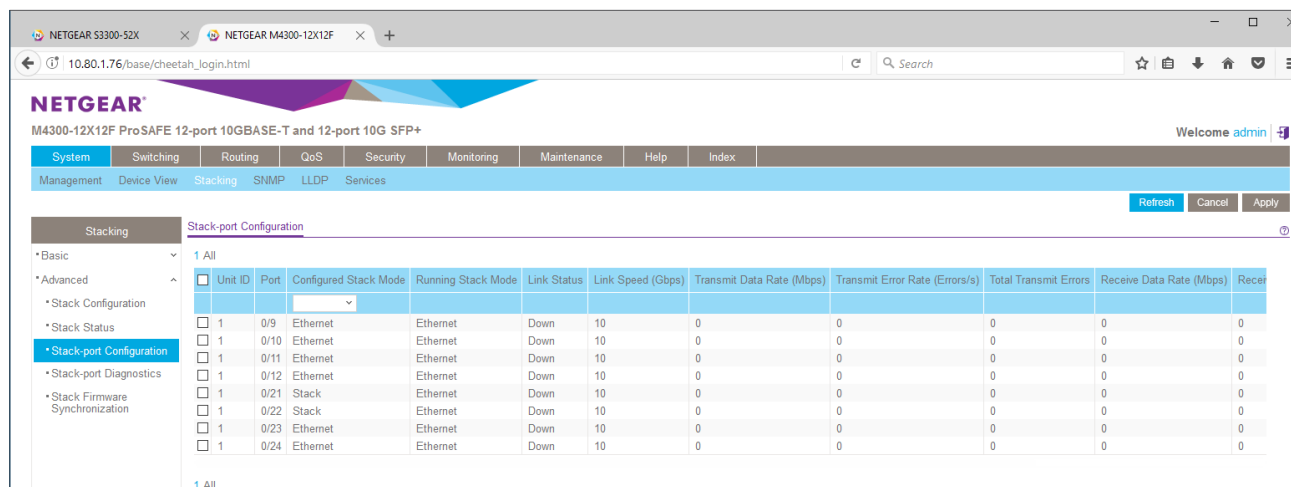


NETGEAR M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+

Stacking: Stack-port Configuration

Unit ID	Port	Configured Stack Mode	Running Stack Mode	Link Status	Link Speed (Gbps)	Transmit Data Rate (Mbps)	Transmit Error Rate (Errors/s)	Total Transmit Errors	Receive Data Rate (Mbps)	Receive Error Rate (Errors/s)	Total Receive Errors
<input type="checkbox"/>	0/9	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/10	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/11	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/12	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input checked="" type="checkbox"/>	0/21	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input checked="" type="checkbox"/>	0/22	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/23	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/24	Ethernet	Ethernet	Down	10	0	0	0	0	0	0

76. Check the Configured Stack Mode for ports 21 and 22. It is normal that the Running Stack Mode is still Ethernet, change of the running mode will require a reboot:

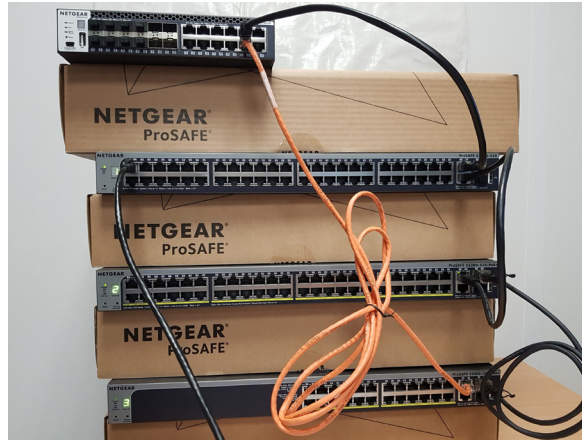


NETGEAR M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+

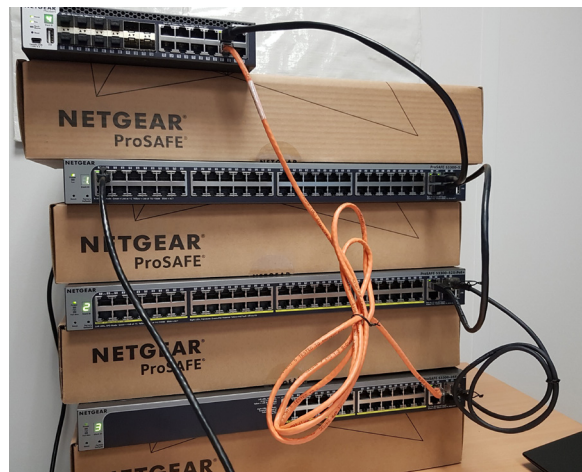
Stacking: Stack-port Configuration

Unit ID	Port	Configured Stack Mode	Running Stack Mode	Link Status	Link Speed (Gbps)	Transmit Data Rate (Mbps)	Transmit Error Rate (Errors/s)	Total Transmit Errors	Receive Data Rate (Mbps)	Receive Error Rate (Errors/s)	Total Receive Errors
<input type="checkbox"/>	0/9	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/10	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/11	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/12	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/21	Stack	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/22	Stack	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/23	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
<input type="checkbox"/>	0/24	Ethernet	Ethernet	Down	10	0	0	0	0	0	0

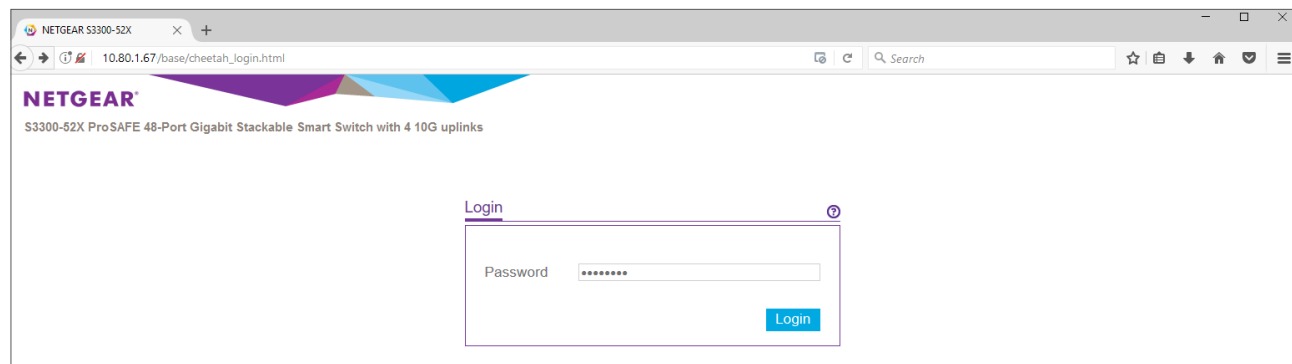
77. Running Smart Switch code, the M4300 saves all configuration changes automatically (when running their original code, Fully Managed Switches require Maintenance/Save Config action to write the running-config into the start-up-config and survive a reboot). You can now safely power off the M4300 switch, disconnect the daisy chain link, and connect the stacking links. In our example, we disconnect the previous stacking link between first and third S3300, and we connect the M4300 to the first and third S3300, in a ring:



78. Power on the M4300 switch. After the boot, the M4300 shows "4" as Stack ID. As expected, the first S3300 switch still shows ON the Dot LED located at the bottom right of its "1" Stack ID. It means the first S3300 switch kept his role as Stack Master for the entire stack, as no reelection was triggered. The M4300 Stack Master LED is OFF:



79. Relog into the stack (default password is password):



80. On first System/Management/System Information page, the stack master S3300-52X still hosts the Web GUI interface. It now shows four units, and behaves as a single, “virtual switch”:

NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

Welcome admin

System | Switching | Routing | QoS | Security | Monitoring | Maintenance | Help | Index

Management | Device View | License | Stacking | PoE | SNMP | LLDP | Services | Timer Schedule

Update | Cancel | Apply

System Information

Product Name: S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks, 6.6.1.7, B1.0.0.10

System Name:

System Location:

System Contact:

Serial Number: 3TU14B7B8069F

System Object OID: 1.3.6.1.4.1.4526.100.10.18

Date & Time: Jan 1 00:10:11 1970 (UTC+0:00)

System Up Time: 0 days 0 hours 10 mins 11 secs

Base MAC Address: 08:BD:43:6B:9E:64

Temp(C): 49

Temperature traps range: 0 to 90 degrees (Celsius)

Temperature Sensors

Unit ID	Sensor	Description	Temp(C)	State	Max Temp (C)
1	1	Thermal Diode 2	49	Normal	49
2	1	Thermal Diode 2	44	Normal	44
3	1	Thermal Diode 1	42	Normal	42
4	1	MAC	38	Normal	38
4	2	System	47	Normal	47

Fans

Slot	FAN	Description	Type	Speed	Duty level(%)	State
1	1	FAN-1	Fixed	5037	28	Operational
1	2	FAN-2	Fixed	5056	28	Operational
2	1	FAN-1	Fixed	4909	28	Operational
2	2	FAN-2	Fixed	4821	28	Operational
2	3	FAN-3	Fixed	4909	28	Operational
3	1	FAN-1	Fixed	4383	27	Operational
3	2	FAN-2	Fixed	4515	27	Operational
4	1	FAN-1	Fixed	3240	16	Operational
4	2	FAN-2	Fixed	2880	16	Operational

81. Go to System/Device View and check the stack topology:

NETGEAR S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

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Refresh

Device View

The diagram shows a stack of four NETGEAR S3300-52X switches. Each switch is represented by a detailed image showing its front panel with ports and status indicators. The switches are connected in a stack topology, with the top switch being the master and the others being slaves. The diagram also shows the physical connections between the switches, including the 10G uplinks and the stack ports.

82. Go to System/Stacking/Advanced/Stack Configuration and check Switch Priorities, Management Status, Standby Status (backup stack master) and overall Stack Status. First and second S3300 still handle Management (stack master) and Opr Standby (backup master) roles:

NETGEAR S3300-52X

10.80.1.67/base/cheetah_login.html

System Switching Routing QoS Security Monitoring Maintenance Help Index

Management Device View License Stacking PoE SNMP LLDP Services Timer Schedule

Welcome admin

Stacking Management Unit Selection

Management Unit Selected: 1

Stack Sample Mode

Sample Mode: Cumulative

Max samples: 1

Stack Configuration

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1		S3300-52X	Unassigned	12	Management	None	OK
2		S3300-52X-PoE+	Unassigned	10	StackMember	Opr Standby	OK
3		S3300-28X-PoE+	Unassigned	1	StackMember	None	OK
4		M4300-12X12F	Unassigned	15	StackMember	None	OK

Basic Stack Status

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS Last Attempt S
1	S3300-52X	3TU14B7B9069F	0 days, 0 hours, 36 minutes, 28 secs	S3300-52X	S3300-52X	6.6.4.2	6.6.4.2	None
2	S3300-52X-PoE+	3TS14A7D8002C	0 days, 0 hours, 36 minutes, 29 secs	S3300-52X-PoE+	S3300-52X-PoE+	6.6.4.2	6.6.4.2	None
3	S3300-28X-PoE+	3TM1487980002	0 days, 0 hours, 15 minutes, 21 secs	S3300-28X-PoE+	S3300-28X-PoE+	6.6.4.2	6.6.4.2	None
4	M4300-12X12F	4G43677M800B9	0 days, 0 hours, 11 minutes, 22 secs	M4300-12X12F	M4300-12X12F	6.6.4.2	6.6.4.2	None

83. Go to System/Stacking/Advanced/Stack-port Configuration: control the stacking ports status on all switches:

NETGEAR S3300-52X

10.80.1.67/base/cheetah_login.html

System Switching Routing QoS Security Monitoring Maintenance Help Index

Management Device View License Stacking PoE SNMP LLDP Services Timer Schedule

Welcome admin

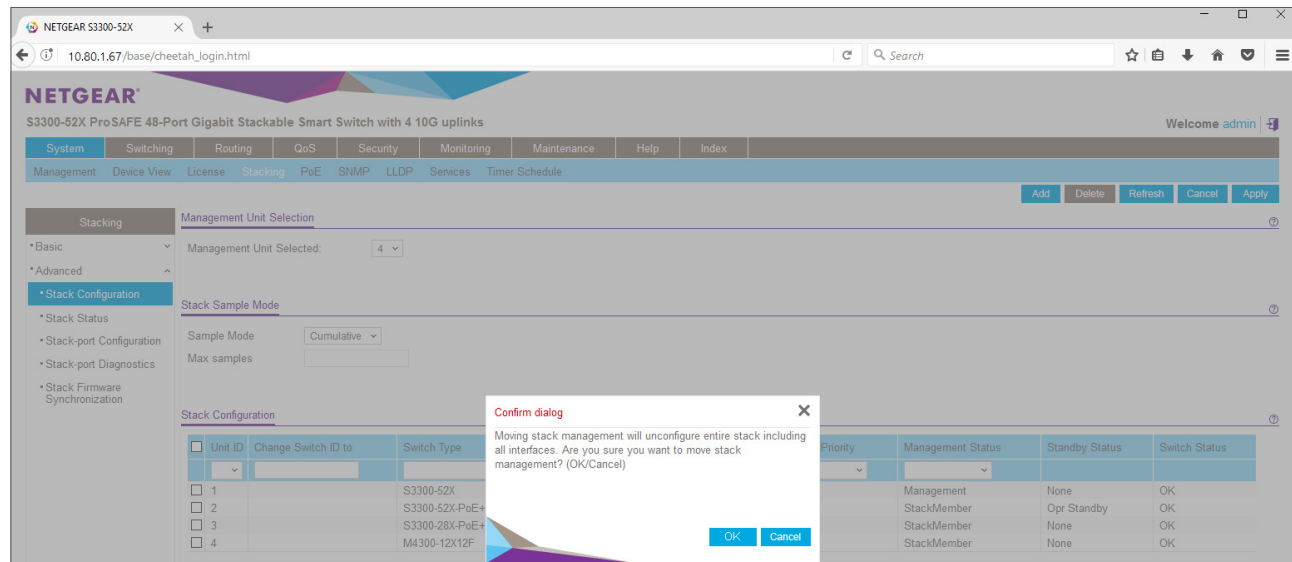
Stacking Stack-port Configuration

1 2 3 4 All

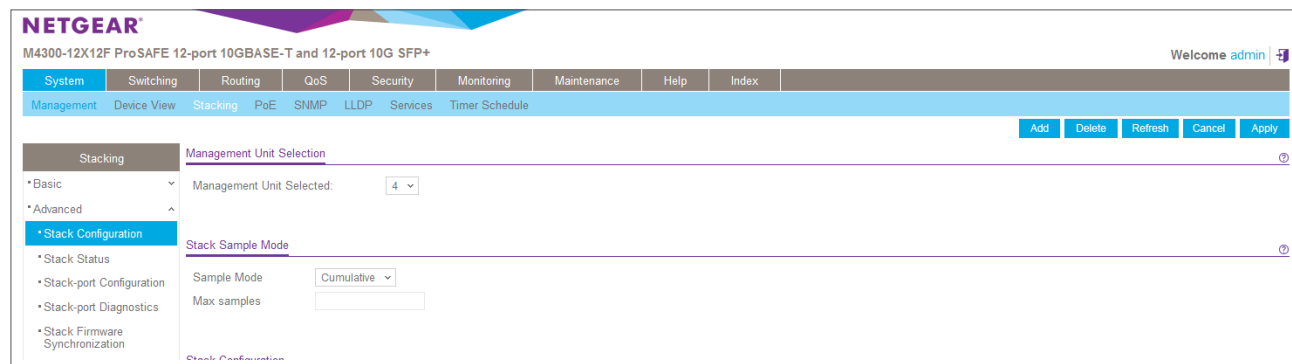
Unit ID	Port	Configured Stack Mode	Running Stack Mode	Link Status	Link Speed (Gbps)	Transmit Data Rate (Mbps)	Transmit Error Rate (Errors/s)	Total Transmit Errors	Receive Data Rate (Mbps)	Receive Error Rate (Errors/s)	Total Receive Errors
1	0/49	Stack	Stack	Up	10	0	0	0	0	0	0
1	0/50	Stack	Stack	Up	10	0	0	0	0	0	0
1	0/51	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
1	0/52	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
2	0/49	Stack	Stack	Up	10	0	0	0	0	0	0
2	0/50	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
2	0/51	Stack	Stack	Up	10	0	0	0	0	0	0
2	0/52	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
3	0/25	Stack	Stack	Up	10	0	0	0	0	0	0
3	0/26	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
3	0/27	Stack	Stack	Up	10	0	0	0	0	0	0
3	0/28	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
4	0/9	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
4	0/10	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
4	0/11	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
4	0/12	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
4	0/21	Stack	Stack	Up	10	0	0	0	0	0	0
4	0/22	Stack	Stack	Up	10	0	0	0	0	0	0
4	0/23	Ethernet	Ethernet	Down	10	0	0	0	0	0	0
4	0/24	Ethernet	Ethernet	Down	10	0	0	0	0	0	0

1 2 3 4 All

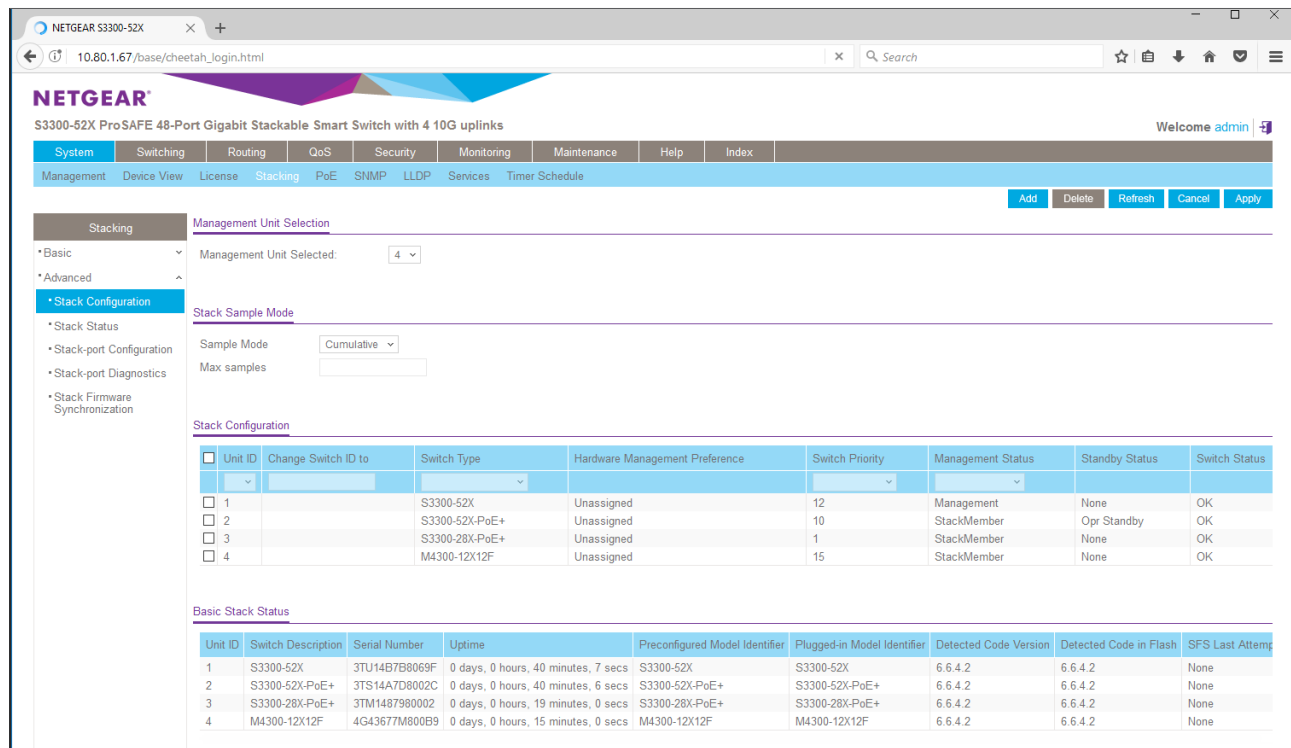
84. We want to move the Management role (stack master) to the M4300 switch. Go to System/Stacking/Advanced/Stack Configuration and select "4" in Management Unit Selected dropdown list. The following message is showing up:



85. Click OK, then **Apply**:



86. A re-election is triggered. The page will hold until the stack reloads:



NETGEAR S3300-52X

S3300-52X ProSAFE 48-Port Gigabit Stackable Smart Switch with 4 10G uplinks

Welcome admin

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Management Device View License Stacking PoE SNMP LLDP Services Timer Schedule

Add Delete Refresh Cancel Apply

Stacking

Management Unit Selection

Management Unit Selected: 4

Stack Sample Mode

Sample Mode: Cumulative

Max samples:

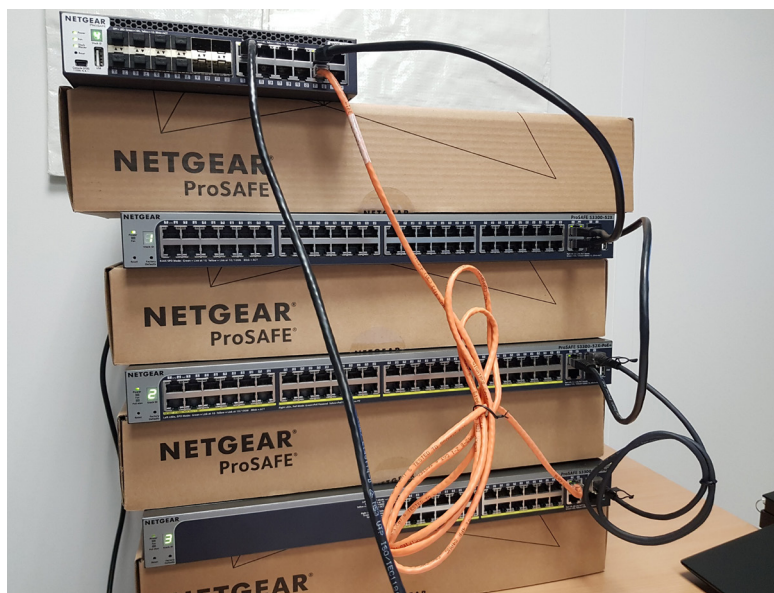
Stack Configuration

Unit ID	Change Switch ID to	Switch Type	Hardware Management Preference	Switch Priority	Management Status	Standby Status	Switch Status
1		S3300-52X	Unassigned	12	Management	None	OK
2		S3300-52X-PoE+	Unassigned	10	StackMember	Opr Standby	OK
3		S3300-28X-PoE+	Unassigned	1	StackMember	None	OK
4		M4300-12X12F	Unassigned	15	StackMember	None	OK

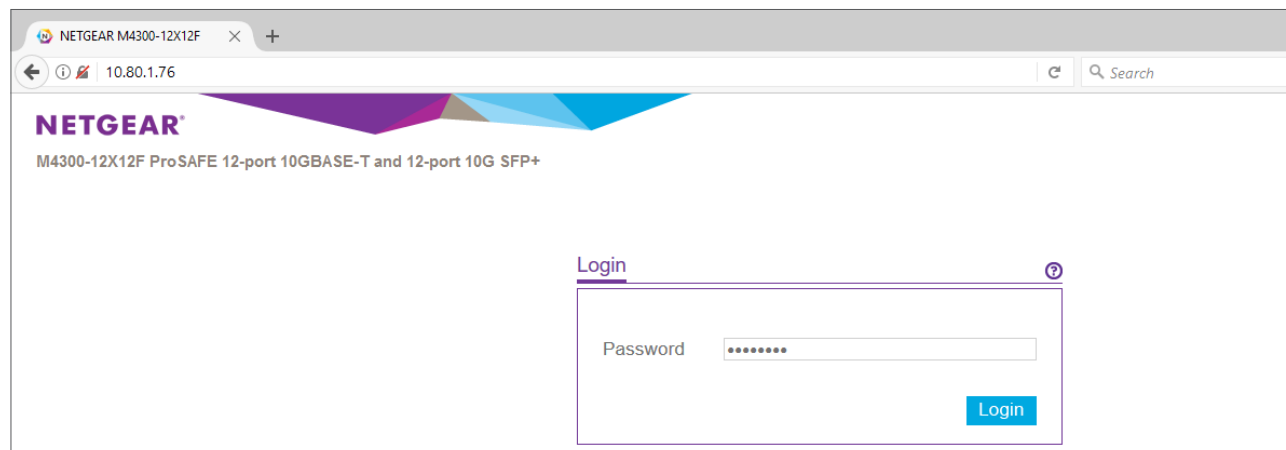
Basic Stack Status

Unit ID	Switch Description	Serial Number	Uptime	Preconfigured Model Identifier	Plugged-in Model Identifier	Detected Code Version	Detected Code in Flash	SFS Last Attempt
1	S3300-52X	3TU14B7B8069F	0 days, 0 hours, 40 minutes, 7 secs	S3300-52X	S3300-52X	6.6.4.2	6.6.4.2	None
2	S3300-52X-PoE+	3TS14A7D8002C	0 days, 0 hours, 40 minutes, 6 secs	S3300-52X-PoE+	S3300-52X-PoE+	6.6.4.2	6.6.4.2	None
3	S3300-28X-PoE+	3TM1487980002	0 days, 0 hours, 19 minutes, 0 secs	S3300-28X-PoE+	S3300-28X-PoE+	6.6.4.2	6.6.4.2	None
4	M4300-12X12F	4G43677M800B9	0 days, 0 hours, 15 minutes, 0 secs	M4300-12X12F	M4300-12X12F	6.6.4.2	6.6.4.2	None

87. After the reload (reboot), the M4300 switch now is the Stack Master. Its Stack Master LED is ON and there is no more Dot LED at the bottom right of first S3300 "1" Stack ID:



88. Relog onto the stack. Its management IP address now is the previous M4300 IP address, since our DHCP server recognized the M4300 MAC address when responding to the DHCP request. Default password is “password”:



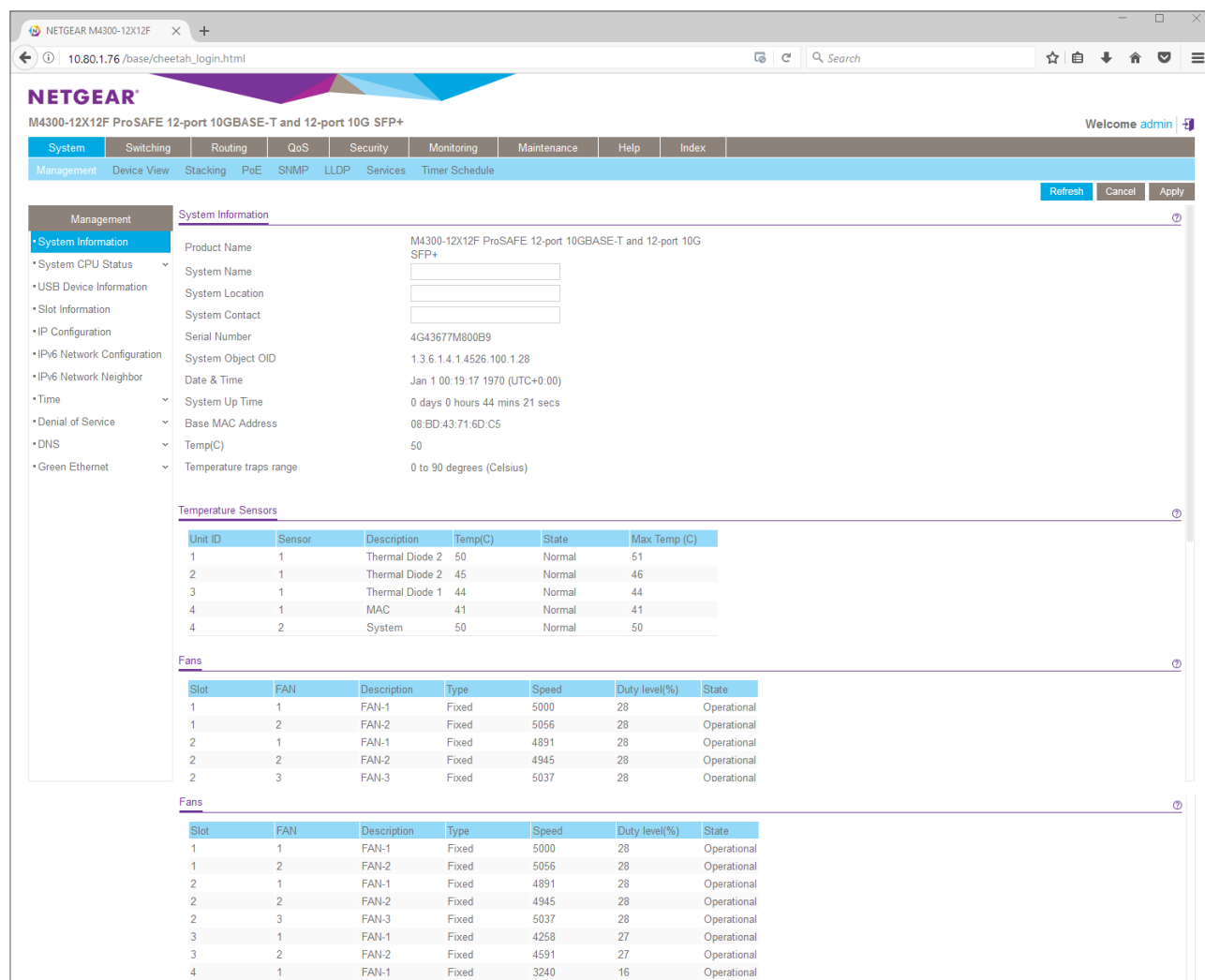
NETGEAR M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+

Login

Password: [masked]

Login

89. Check the System/Management/System Information page, the M4300 now holds the master role and hosts the Web GUI interface:



NETGEAR M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+

Welcome admin

System Information

Product Name: M4300-12X12F ProSAFE 12-port 10GBASE-T and 12-port 10G SFP+

System Name: [input field]

System Location: [input field]

System Contact: [input field]

Serial Number: 4G43677M800B9

System Object OID: 1.3.6.1.4.1.4526.100.1.28

Date & Time: Jan 1 00:19:17 1970 (UTC+0:00)

System Up Time: 0 days 0 hours 44 mins 21 secs

Base MAC Address: 08:BD:43:71:6D:C5

Temp(C): 50

Temperature traps range: 0 to 90 degrees (Celsius)

Temperature Sensors

Unit ID	Sensor	Description	Temp(C)	State	Max Temp (C)
1	1	Thermal Diode 2	50	Normal	51
2	1	Thermal Diode 2	45	Normal	46
3	1	Thermal Diode 1	44	Normal	44
4	1	MAC	41	Normal	41
4	2	System	50	Normal	50

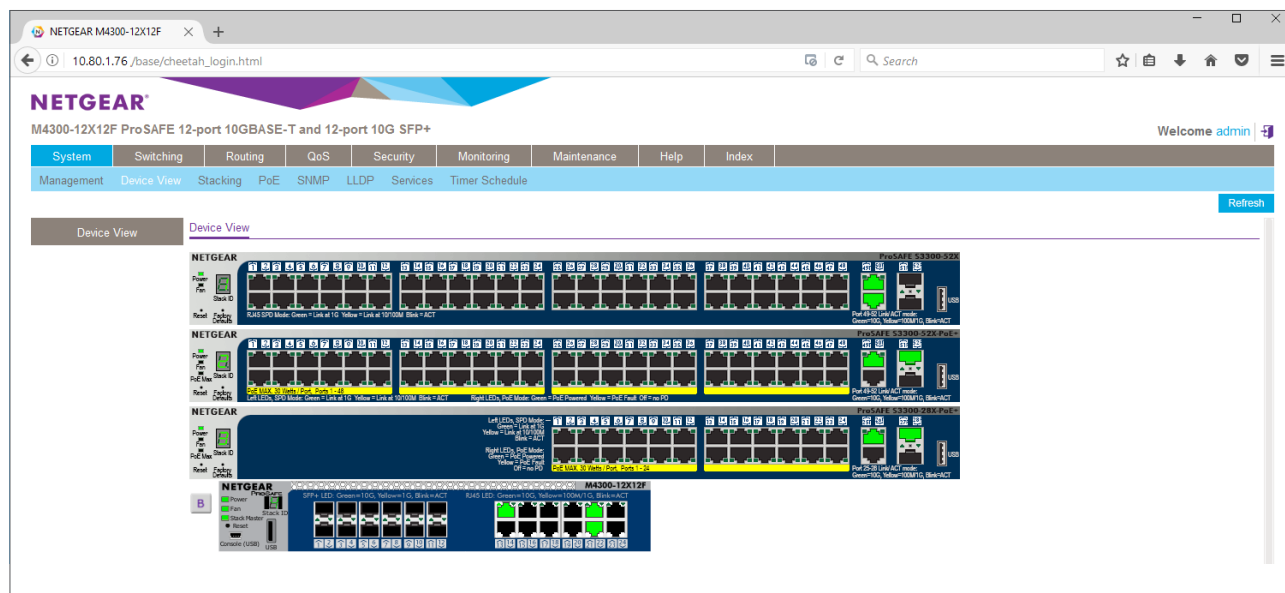
Fans

Slot	FAN	Description	Type	Speed	Duty level(%)	State
1	1	FAN-1	Fixed	5000	28	Operational
1	2	FAN-2	Fixed	5056	28	Operational
2	1	FAN-1	Fixed	4891	28	Operational
2	2	FAN-2	Fixed	4945	28	Operational
2	3	FAN-3	Fixed	5037	28	Operational

Fans

Slot	FAN	Description	Type	Speed	Duty level(%)	State
1	1	FAN-1	Fixed	5000	28	Operational
1	2	FAN-2	Fixed	5056	28	Operational
2	1	FAN-1	Fixed	4891	28	Operational
2	2	FAN-2	Fixed	4945	28	Operational
2	3	FAN-3	Fixed	5037	28	Operational
3	1	FAN-1	Fixed	4258	27	Operational
3	2	FAN-2	Fixed	4591	27	Operational
4	1	FAN-1	Fixed	3240	16	Operational

90. Go to System/Device View and check the stack topology. The M4300 Stack Master LED now is ON:



91. Go to System/Stacking/Advanced/Stack Configuration. The M4300 (ID=4) now handles the Management (stack master) role. The first S3300 switch (ID=1) handles the Opr Standby (backup master) role. With their respective highest priorities, the stack master and backup master topology will hold, even after a reboot:

