SNR

SNR. CLI (Command Line Interface) WEB-.

:

- Serial- Console , ;
- (Putty, Minicom, HyperTerminal) :
  - Serial- ;
  - 9600;
  - : 8 , 1 , ;
  - .
- .

> **!**
>
> S2995G S3850G 115200 .

WEB-

IP- 192.168.1.1. WEB-, IP- (192.168.1.2), Ethernet- 192.168.1.1. admin/admin.

CLI

, :

- , '>' . . , 'enable';
- , . '#';
- , 'config'. - '(config)#';
- 'exit';
- , 'write' 'copy running-config startup-config' ;
- TAB, ;
- " " .

, 1.2 SNR

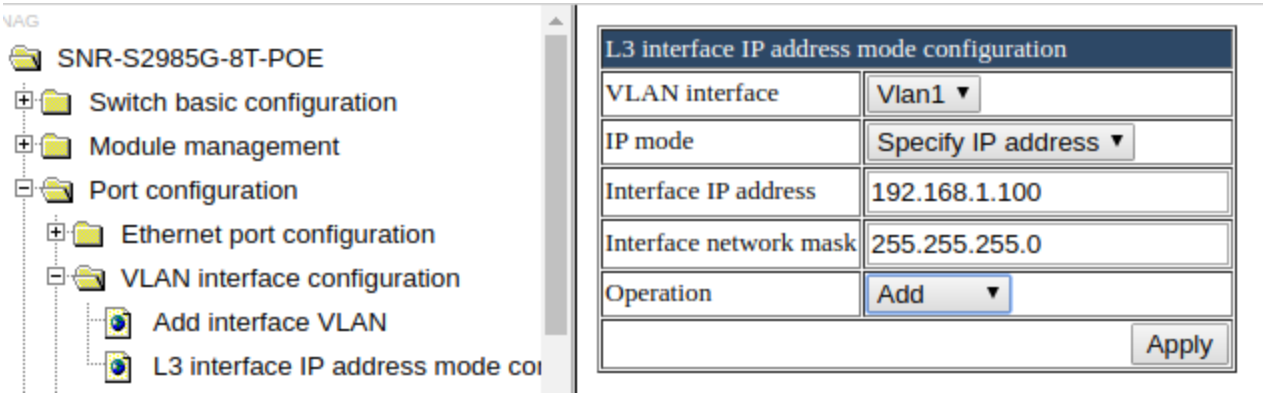
IP-

VLAN 1, . IP- :

```
switch#conf
switch(config)#int vlan1
switch(config-if-vlan1)#ip add 192.168.1.100 255.255.255.0
```

WEB- (WEB-)

- Port configuration -> VLAN interface configuration -> L3 interface IP address mode configuration



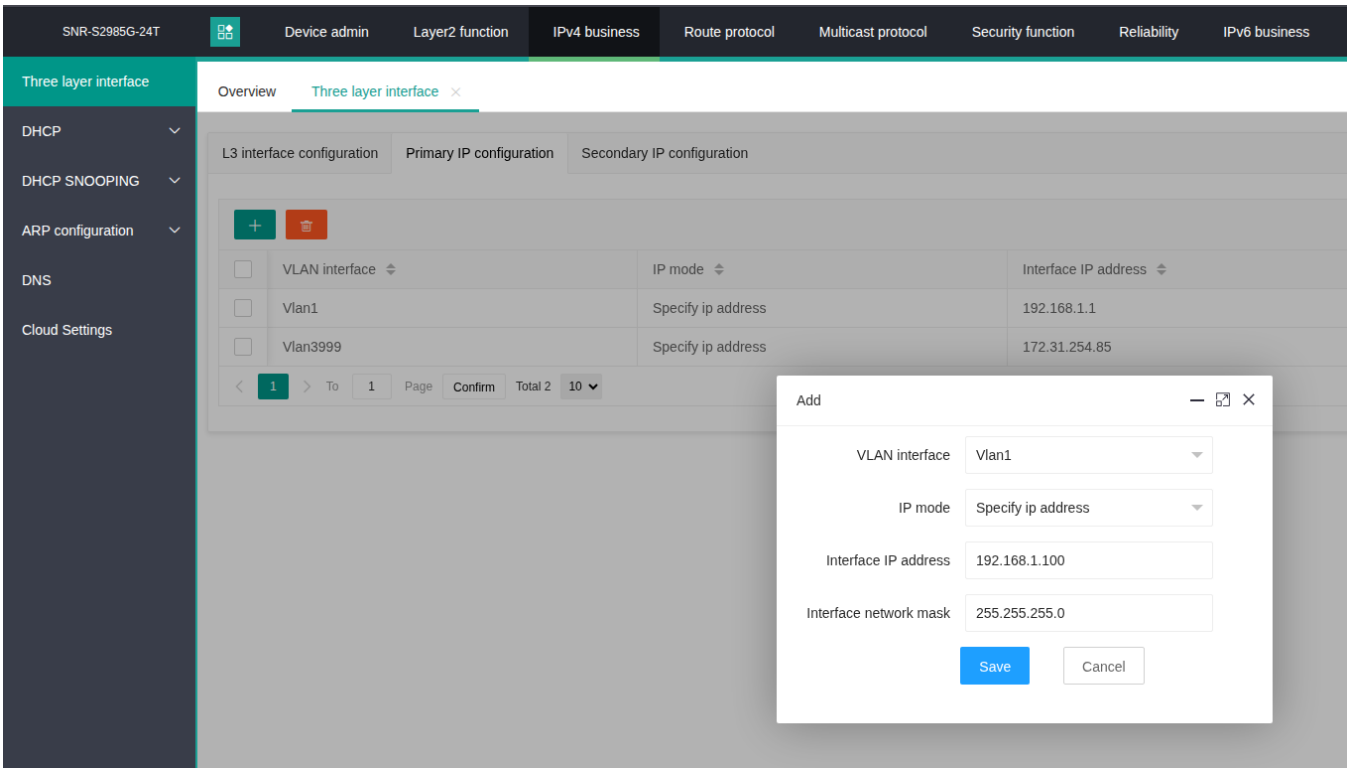
!

WEB 'Save and Exit', .

WEB- (WEB-)

- IPv4 business Three layer interface Primary IP configuration

"+" , "Save"

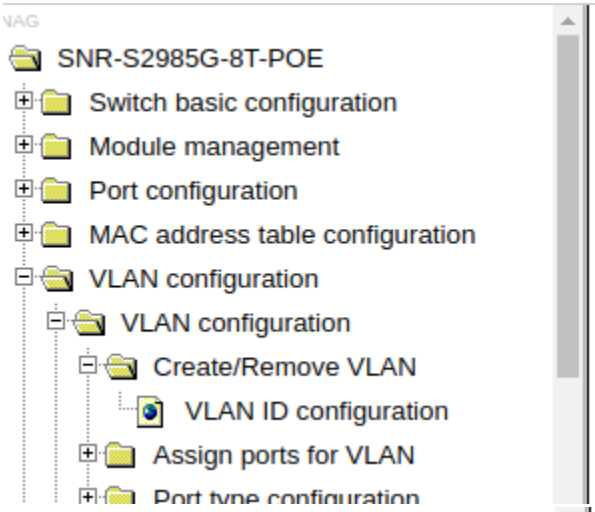


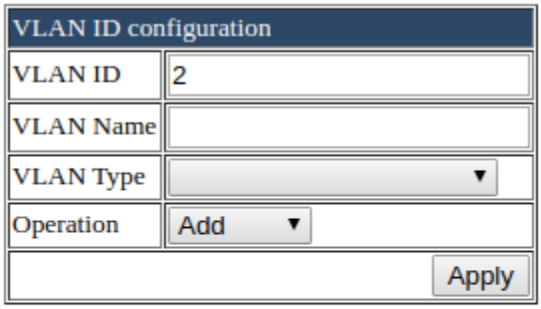
VLAN, L3- VLAN

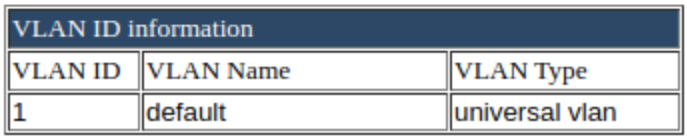
```
switch(config)#vlan 2
switch(config-vlan2)#switchport interface e1/0/2
switch(config-vlan2)#exit
switch(config)#int vlan2
switch(config-if-vlan2)#ip add 192.168.2.100 255.255.255.0
```

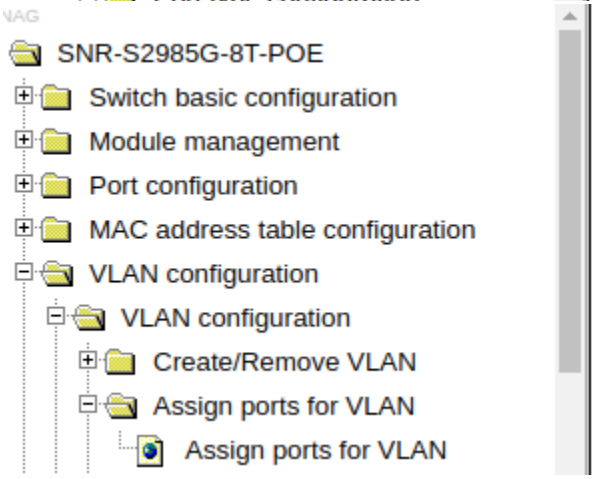
WEB- (WEB-)

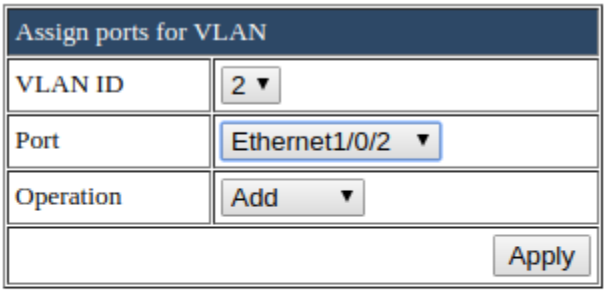
- VLAN: VLAN configuration -> VLAN configuration -> Create/Remove VLAN -> VLAN ID configuration;
- : VLAN configuration -> VLAN configuration -> Assign ports for VLAN -> Assign ports for VLAN;
- L3-: Port configuration -> VLAN interface configuration -> Add interface VLAN;
- IP-: Port configuration -> VLAN interface configuration -> L3 interface IP address mode configuration.

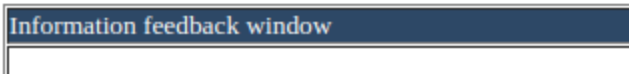


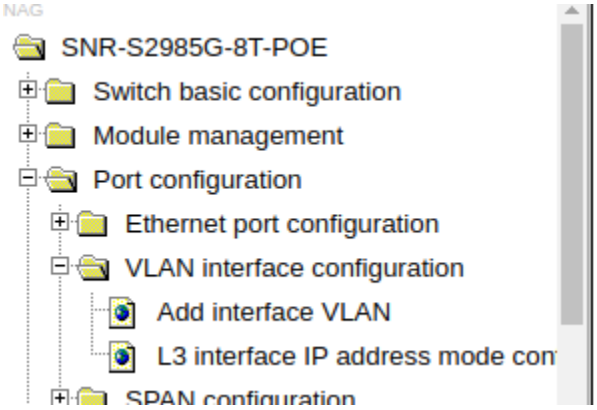


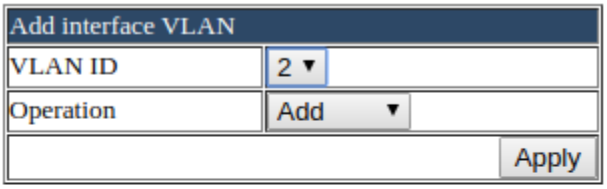


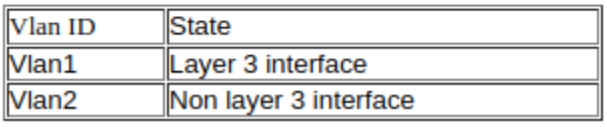


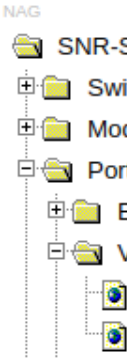






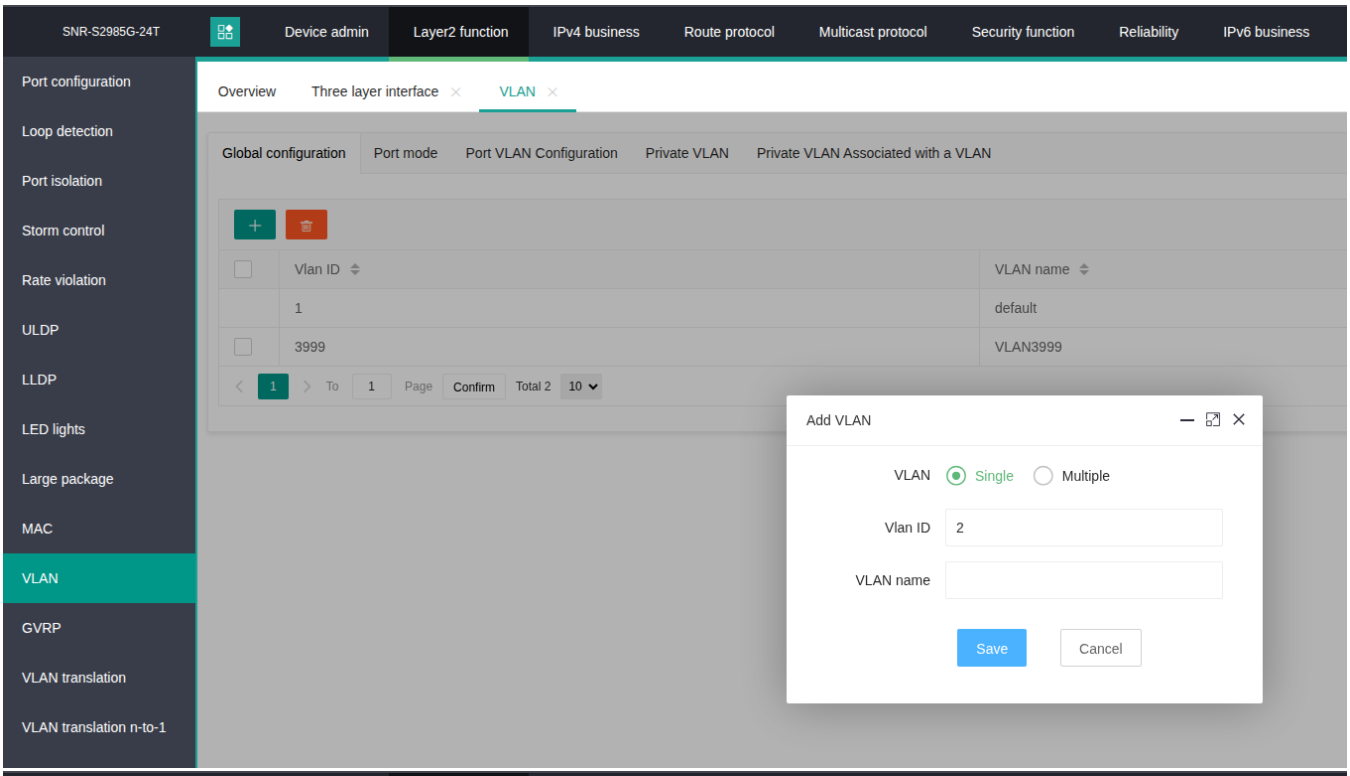


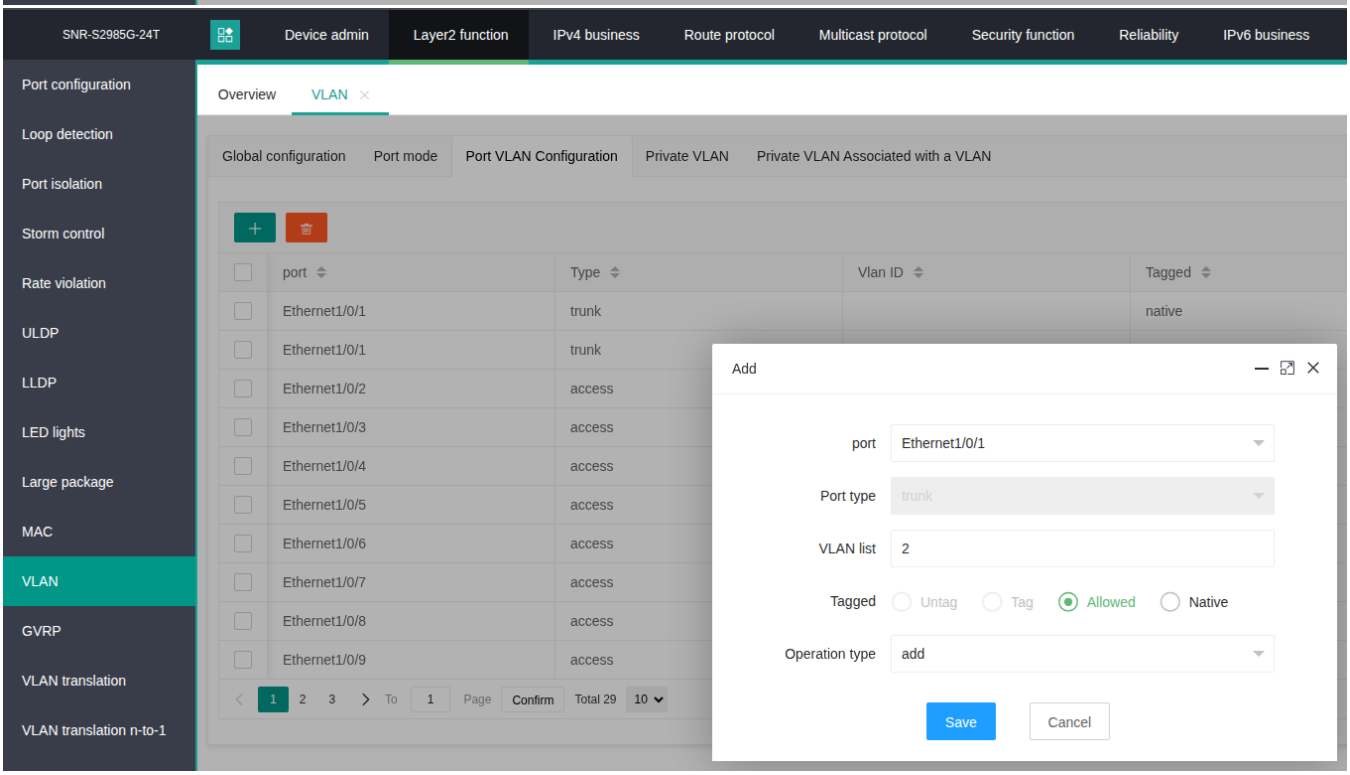




WEB- (WEB-)

- VLAN: Layer2 function -> VLAN -> Global configuration -> "+" ;
- : Layer2 function -> VLAN -> Port VLAN Configuration -> "+" ;
- L3-: IPv4 business -> Three layer interface -> L3 interface configuration -> Interface configuration -> "Save";
- IP-: IPv4 business -> Three layer interface -> Primary IP configuration -> "+" .


SNR-S2985G-24T
Device admin
Layer2 function
IPv4 business
Route protocol
Multicast protocol
Security function
Reliability
IPv6 business
Port configuration
Loop detection
Port isolation
Storm control
Rate violation
ULDP
LLDP
LED lights
Large package
MAC
VLAN
GVRP
VLAN translation
VLAN translation n-to-1
Overview
Three layer interface
VLAN
Global configuration
Port mode
Port VLAN Configuration
Private VLAN
Private VLAN Associated with a VLAN
Vlan ID
VLAN name
1
default
3999
VLAN3999
Add VLAN
VLAN
Single
Multiple
Vlan ID
2
VLAN name
Save
Cancel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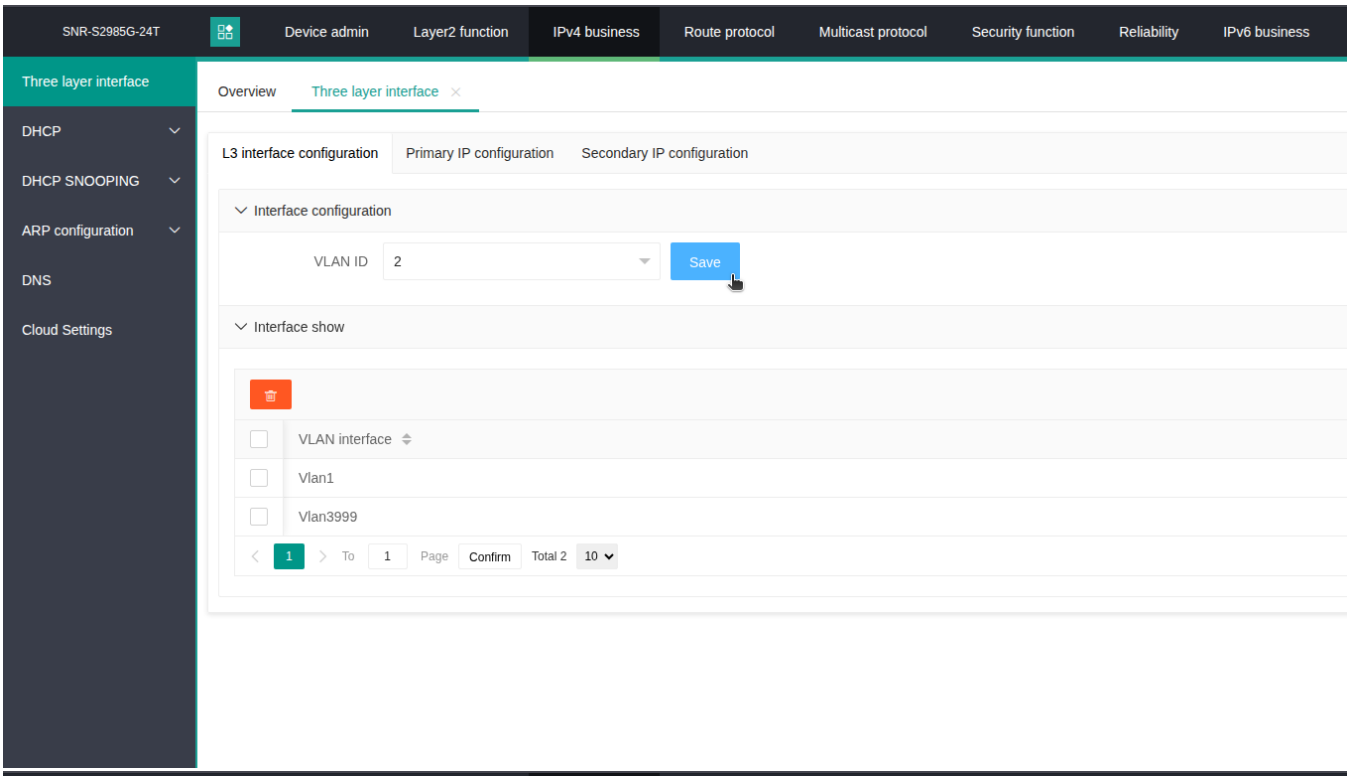
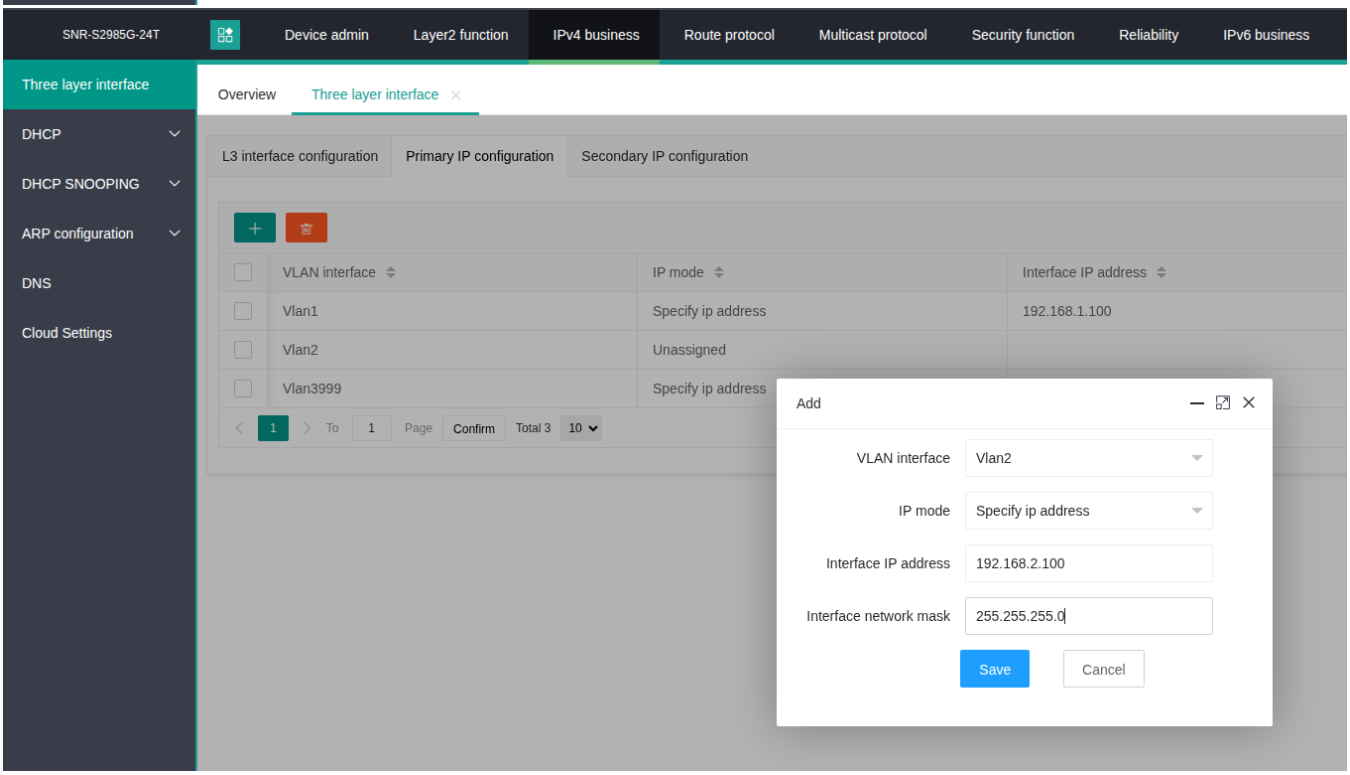
port
Type
Vlan ID
Tagged
Ethernet1/0/1
trunk
native
Ethernet1/0/2
access
Add
port
Ethernet1/0/1
Port type
trunk
VLAN list
2
Tagged
Untag
Tag
Allowed
Native
Operation type
add
Save
Cancel



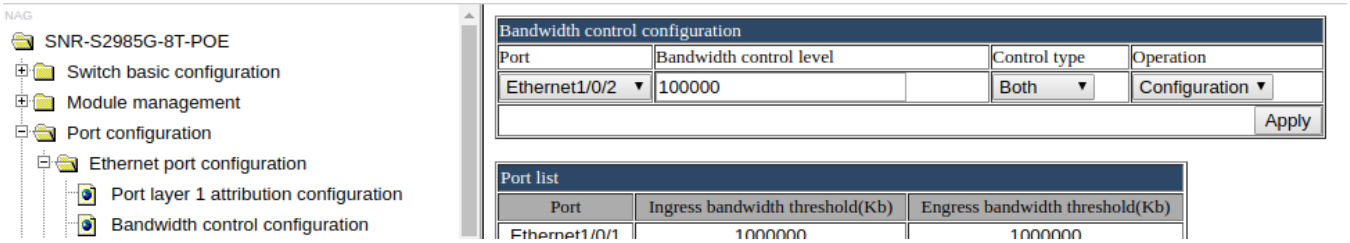


2 100 /:

```
switch(config)#int e1/0/2
switch(config-if-ethernet1/0/2)#bandwidth control 100000 both
```

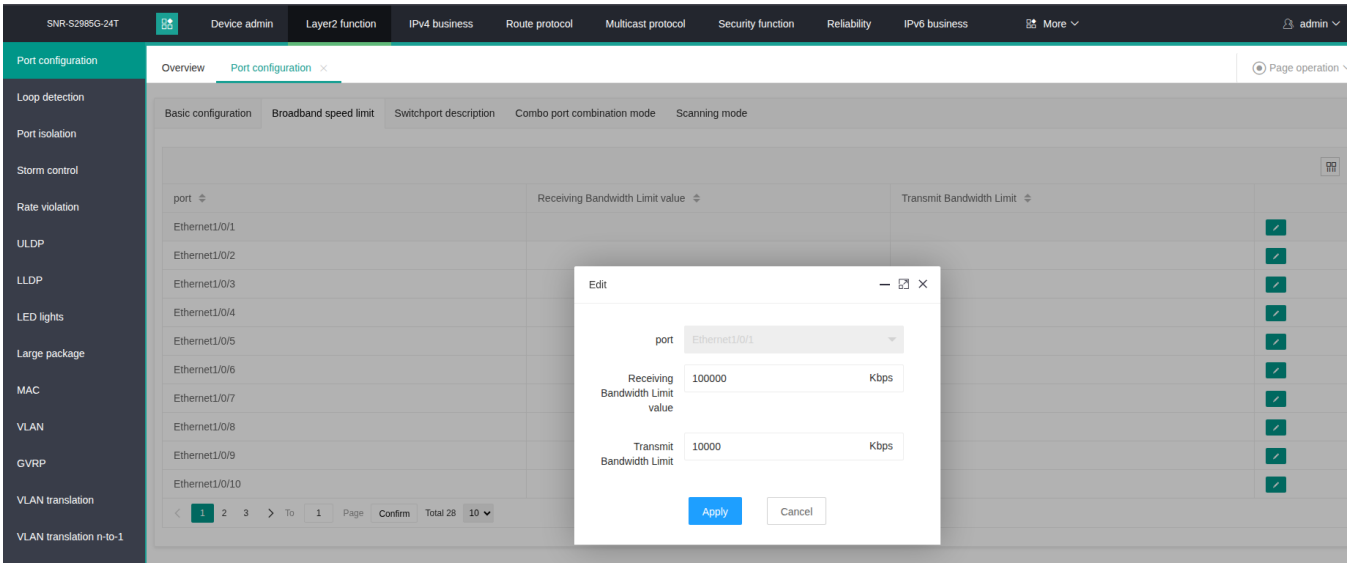
WEB- (WEB-)

- Port configuration -> Ethernet port configuration -> Bandwidth control configuration



WEB- (WEB-)

- Layer2 function -> Port configuration -> Broadband speed limit -> ""



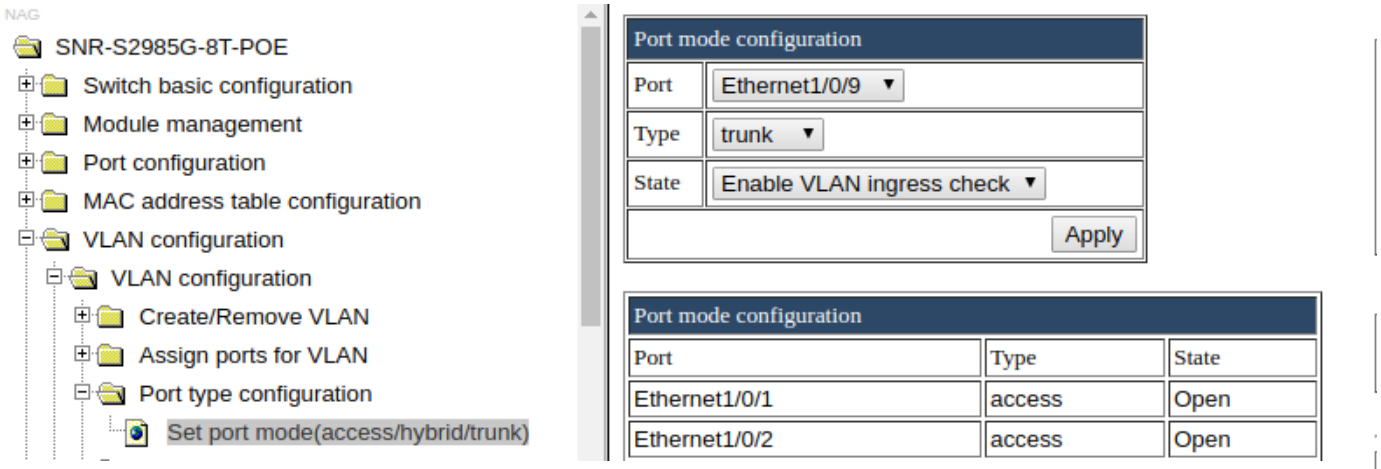
Uplink-

, 9, VLAN 2:

```
switch(config-if-ethernet1/0/9)#switchport mode trunk
switch(config-if-ethernet1/0/9)#switchport trunk allowed vlan 2
```

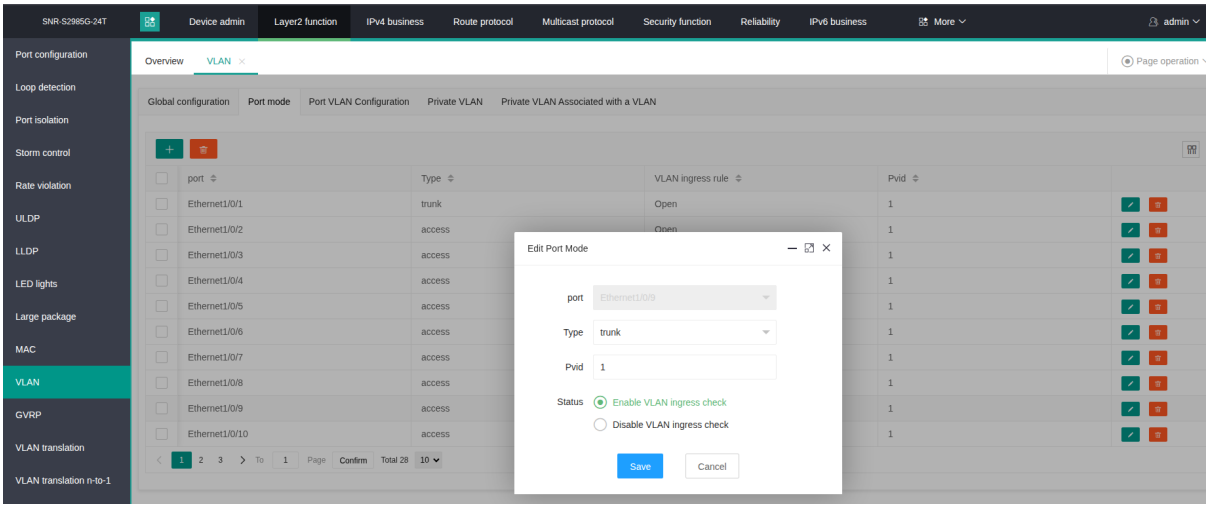
WEB- (WEB-)

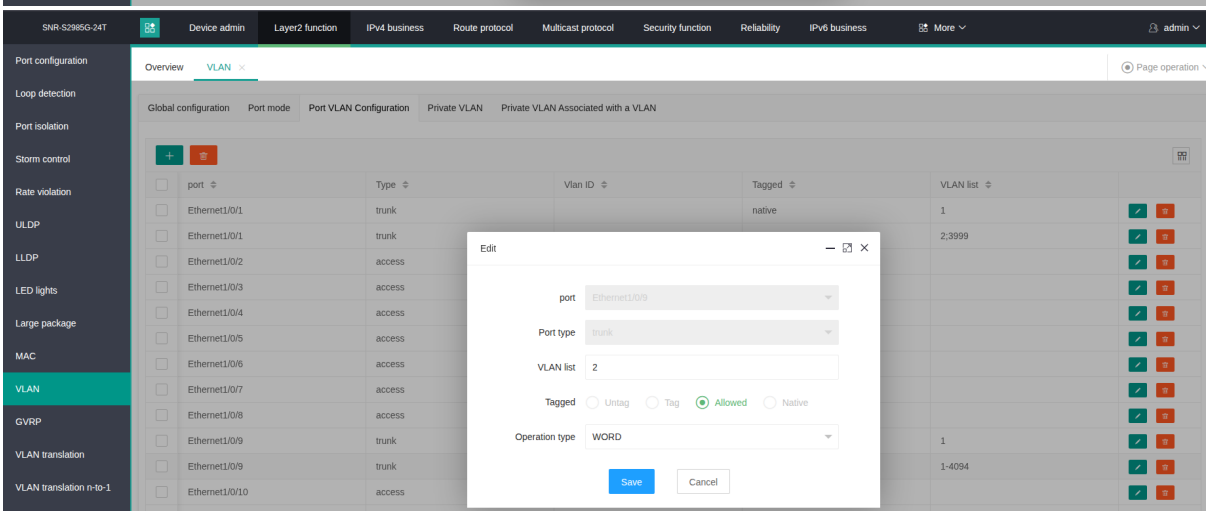
- : VLAN configuration -> VLAN configuration -> Port type configuration -> Set port mode(access/hybrid/trunk)
- VLAN: VLAN configuration -> VLAN configuration -> Trunk port configuration -> VLAN setting for trunk port



WEB- (WEB-)

- : Layer2 function -> VLAN -> Port mode -> "" ->
- VLAN: Layer2 function -> VLAN -> Port VLAN Configuration -> "" , "+"





, Trunk Hybrid Access (1):

- Trunk – 2 :
  - Allowed – VLAN , VLAN
  - Native – VLAN, , VLAN
- Hybrid – 3 :
  - Tag – VLAN , VLAN
  - Untag – VLAN , VLAN
  - Native – VLAN , VLAN

, Hybrid VLAN, "+" ""

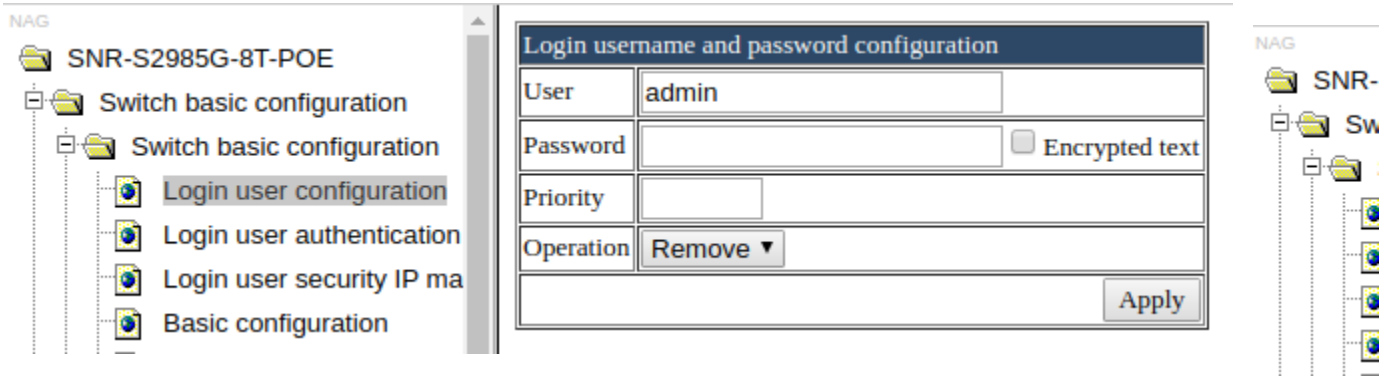
, ,

'admin', . 'nag', 'admin' :

```
(config)#username nag privilege 15 password nag
(config)#no username admin
(config)#username nag password nagnag
```

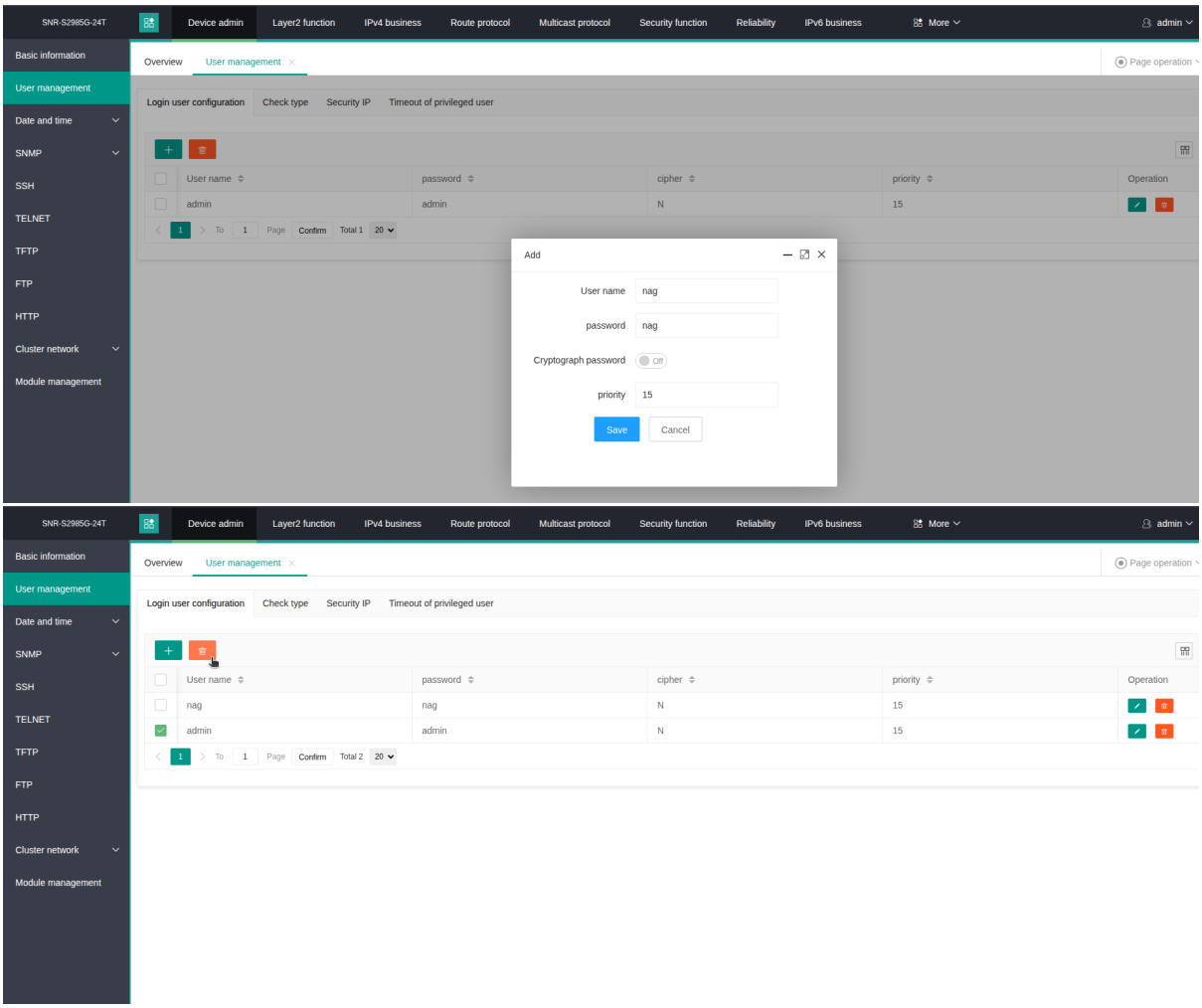
WEB- (WEB-)

- Switch basic configuration -> Switch basic configuration -> Login user configuration



WEB- (WEB-)

- : Device admin -> User management -> Login user configuration -> "+"
- : Device admin -> User management -> Login user configuration -> ""
- : Device admin -> User management -> Login user configuration -> ""

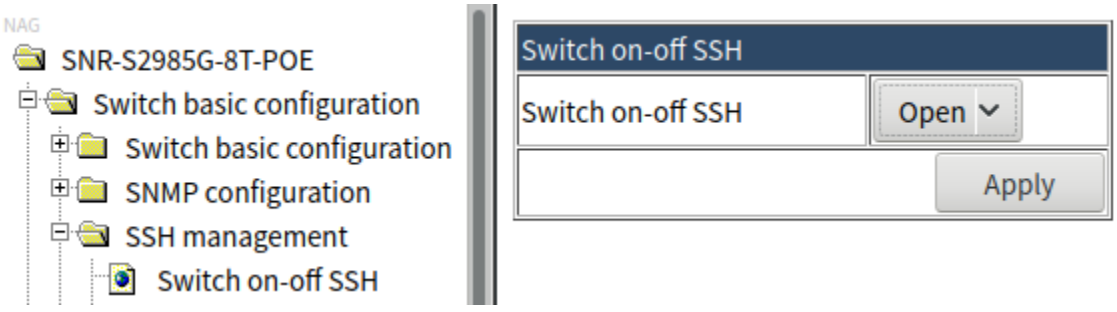


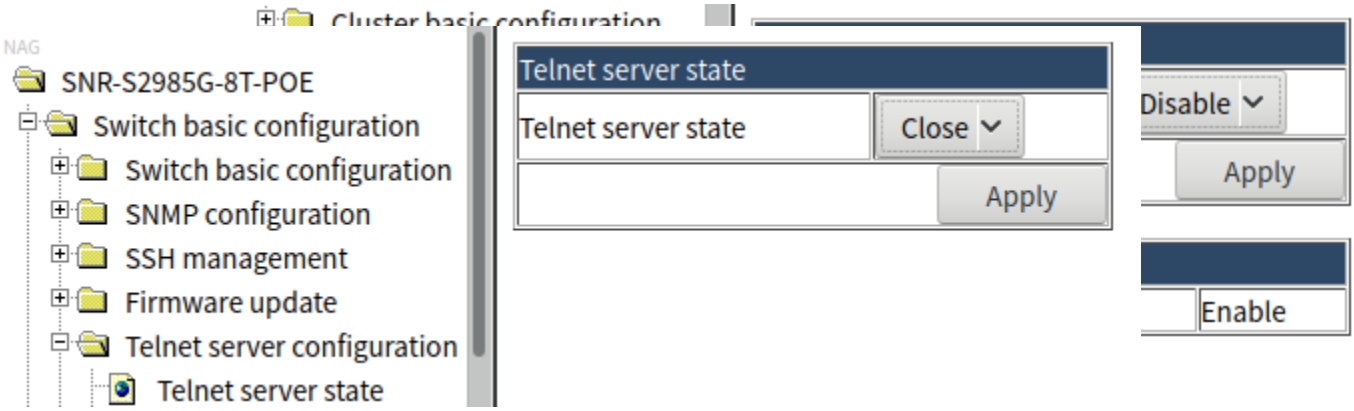
SNR Telnet HTTP . SSH Telnet, .. . HTTP:

```
(config)#ssh-server enable
(config)#no telnet-server enable
(config)#no ip http server
```

WEB- (WEB-)

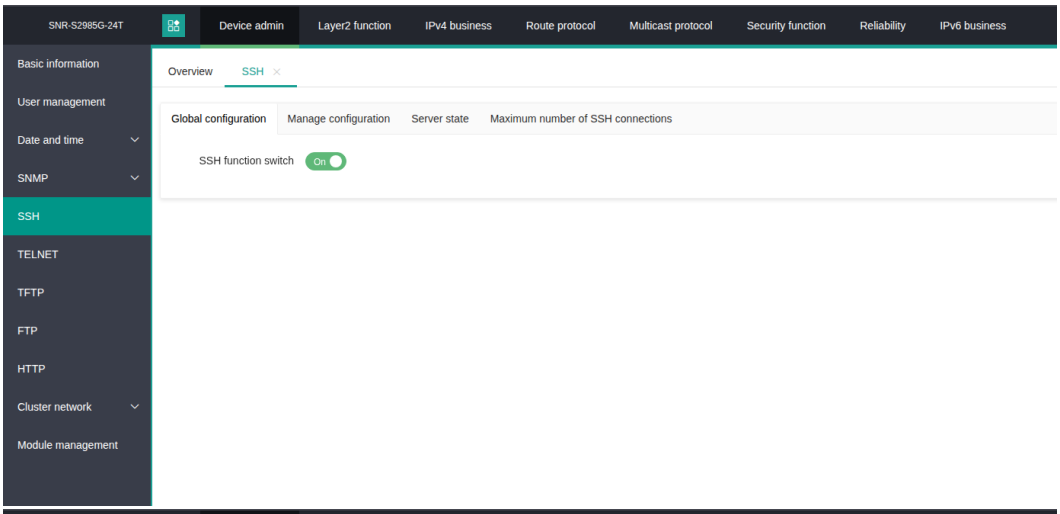
- Switch basic configuration -> SSH management -> Switch on-off SSH
- Switch basic configuration -> Telnet server configuration -> Telnet server state
- SSL config -> IP HTTP server configuration

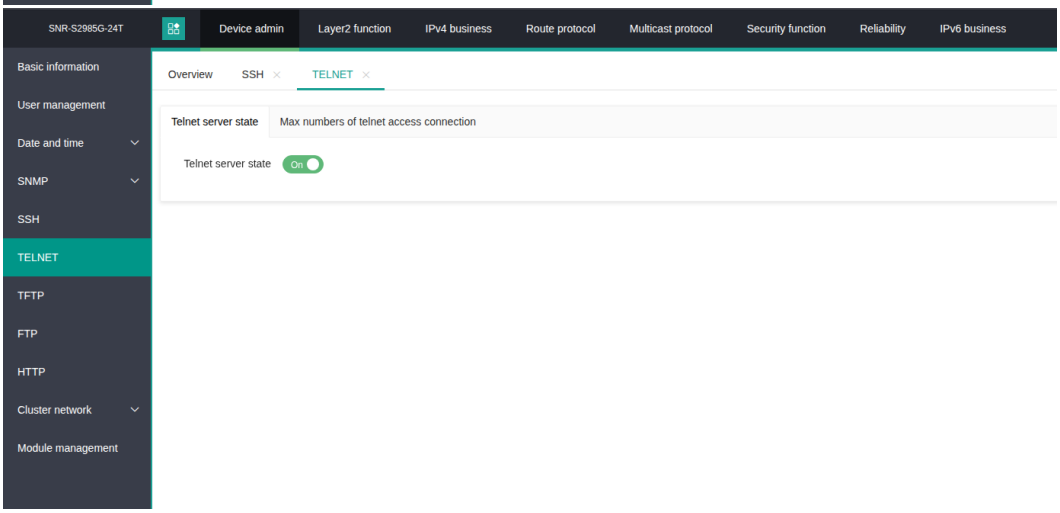


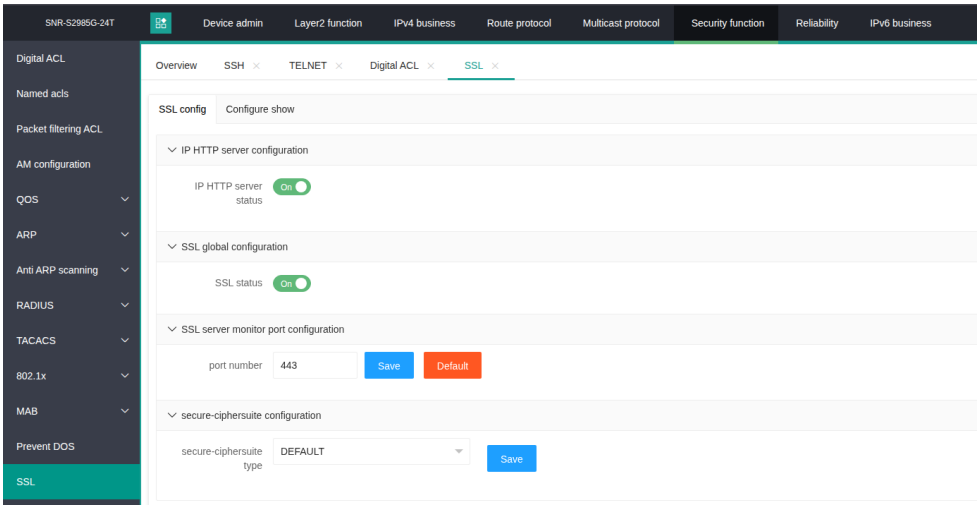


WEB- (WEB-)

- Device admin -> SSH -> Global configuration
- Device admin -> TELNET -> Telnet server state
- Security function -> SSL -> SSL config -> SSL global configuration







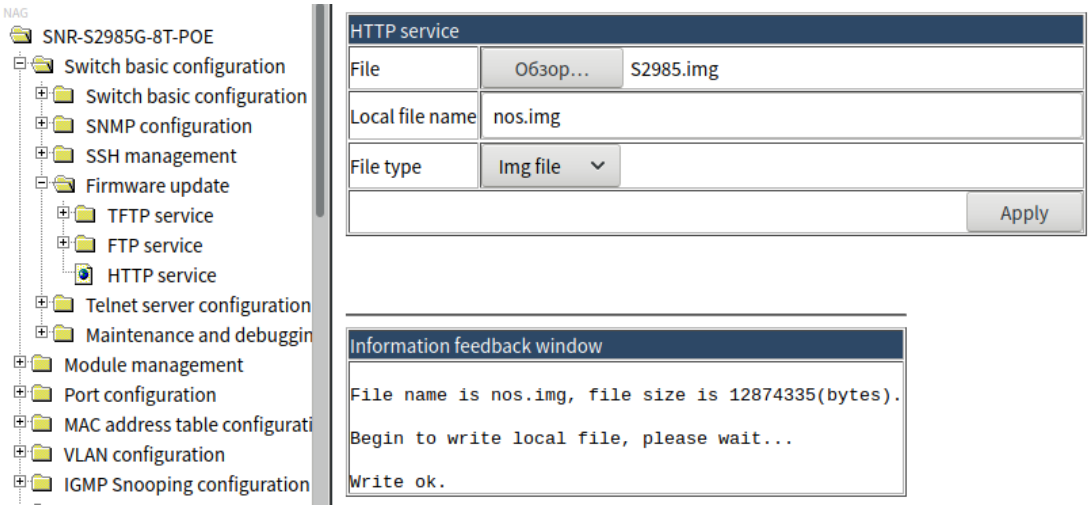
HTTP

SNR .

WEB-

NOS - , TFTP/FTP-. Boot- . .

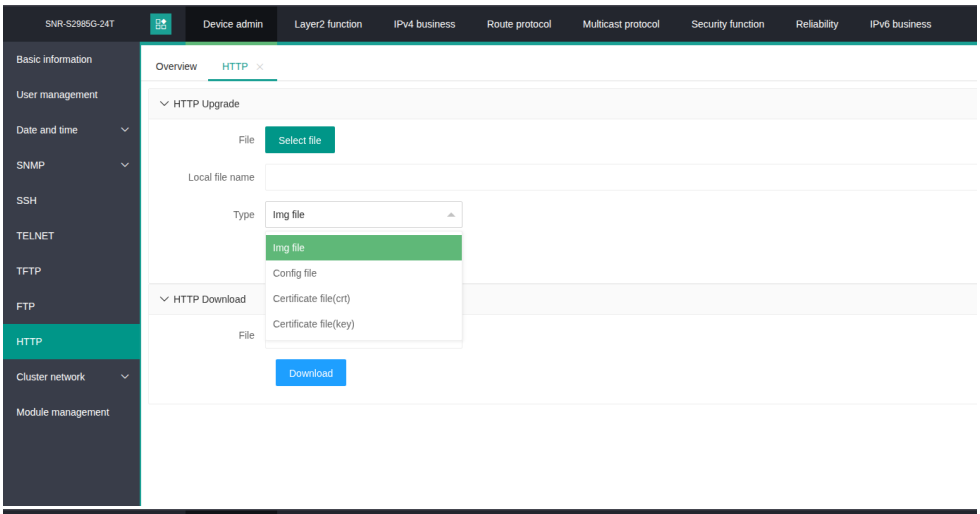
- Switch basic configuration -> Firmware update -> HTTP service
- Switch basic configuration -> Switch basic configuration -> Save current running-configuration

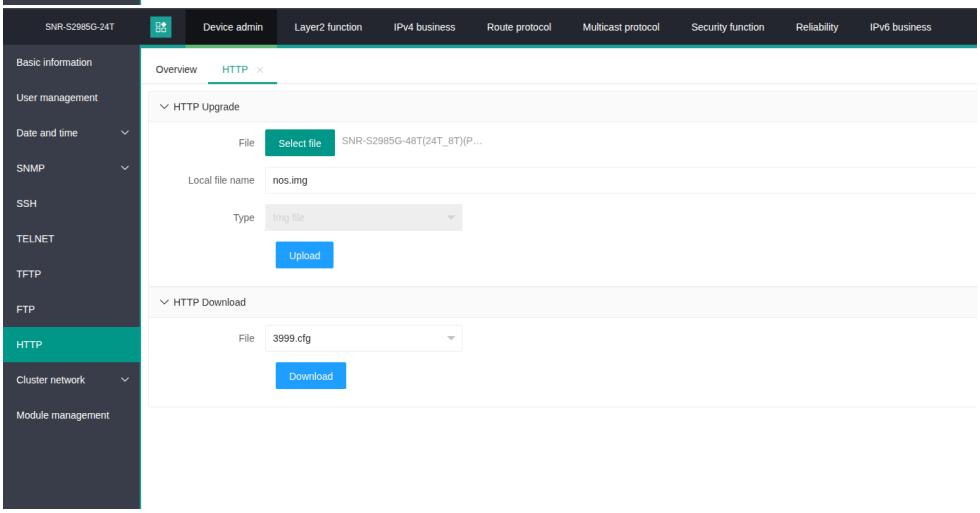


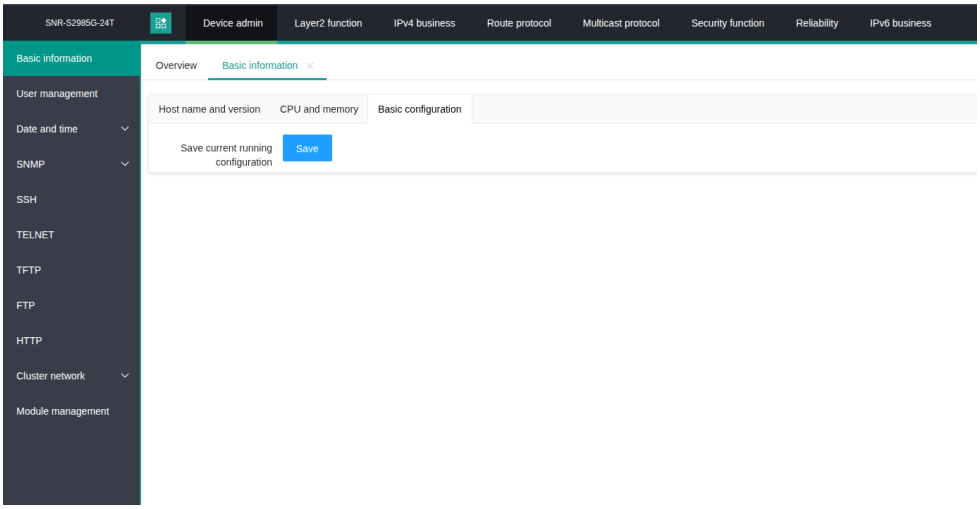
WEB-

NOS, , SSL- , TFTP/FTP-. Boot- . .

- Device admin -> HTTP -> HTTP Upgrade
- Device admin -> Basic information -> Basic configuration







SSL- WEB-

SSL- WEB-!
, WEB-, , .

Flash :

1. "https_cert.crt" – SSL-

2. "https_key.key" –

WEB-

CLI

1. SSL HTTPS :

```
Switch(config)# ip http secure-server
```

2. Flash "https_cert.crt" "https_key.key". , TFTP:

```
Switch# copy tftp://<TFTP-Server>/test.crt https_cert.crt
Switch# copy tftp://<TFTP-Server>/test.key https_key.key
```

3. :

```
Switch# write
Confirm to overwrite current startup-config configuration [Y/N]:y
Write running-config to current startup-config successful
```

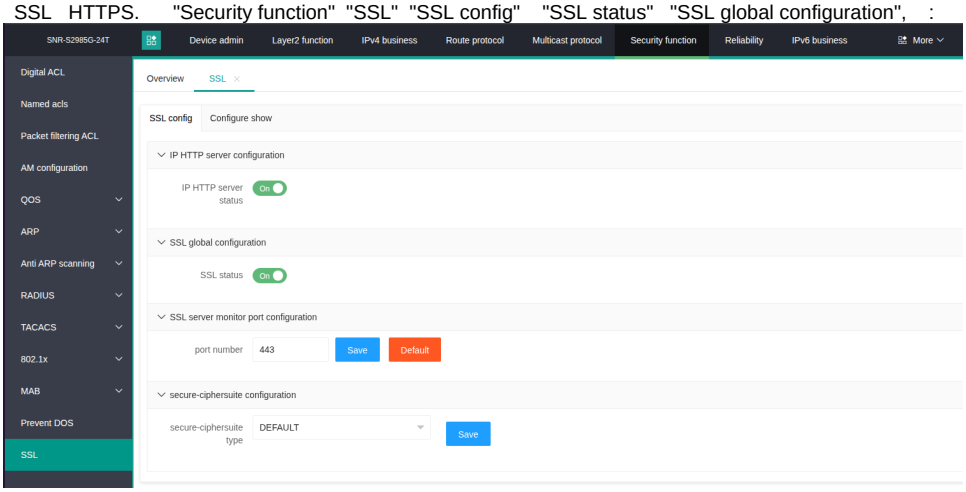
4. :

```
Switch# reload
Process with reboot? [Y/N] y
Switch reboot, close telnet connection!
Connection closed by foreign host.
```

5. ! SSL- WEB- HTTPS

WEB- (WEB-)

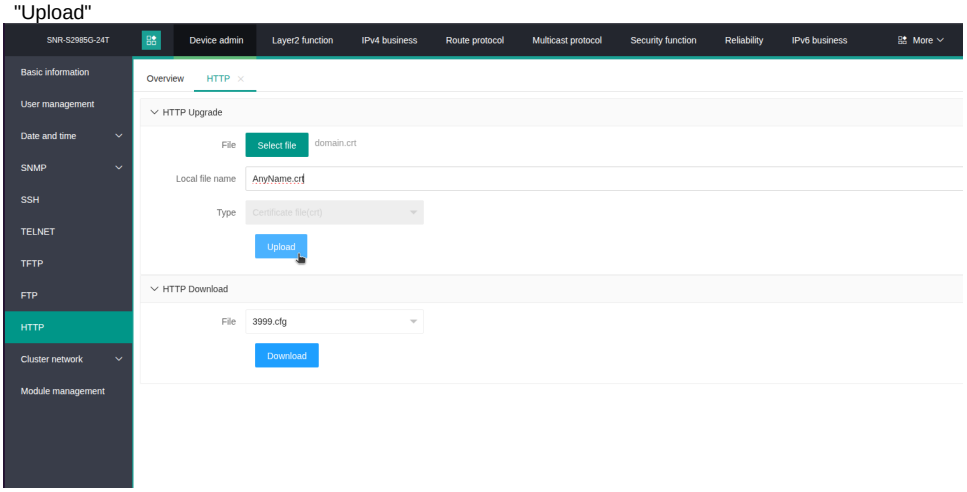
1. SSL HTTPS. "Security function" "SSL" "SSL config" "SSL status" "SSL global configuration", :



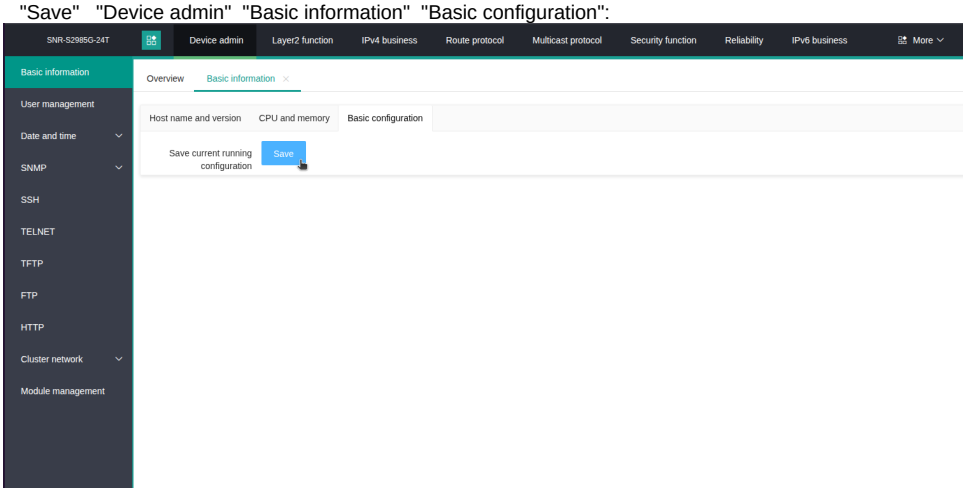
: "Security function" "HTTP/HTTPS" "SSL Configuration", "HTTPS Configuration", "IP HTTPS Server Status"

2. WEB-. "Device admin" "HTTP".
"HTTP Upgrade":
   a. "File"
   b. "Local file name" ".crt". – "https_cert.crt"
   c. "Type" , .. . , "Certificate file(crt)"

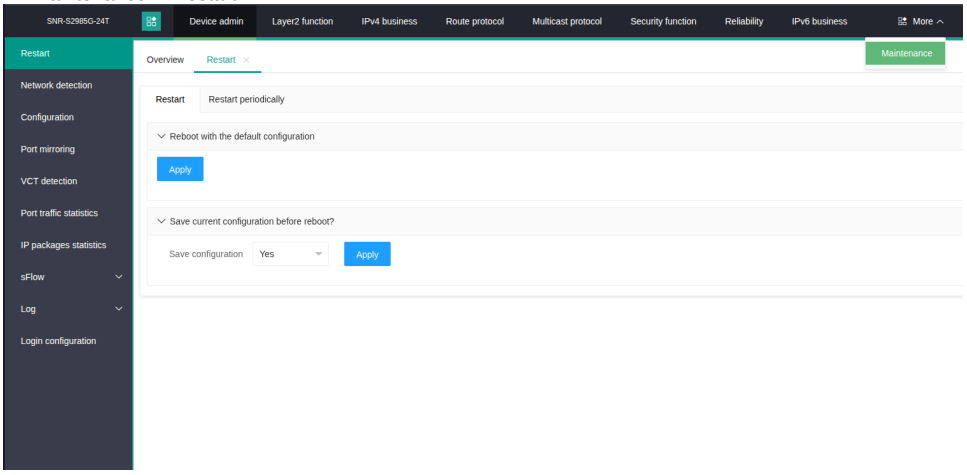
d. "Upload"



3. "Device admin" "HTTP" "HTTP Upgrade":
   a. "File"
   b. "Local file name" ".key". – "https_key.key"
   c. "Type" , .. . , "Certificate file(key)"
   d. "Upload"
4. "Save" "Device admin" "Basic information" "Basic configuration":



5. "Maintenance" "Restart":



6. ! SSL- WEB- HTTPS