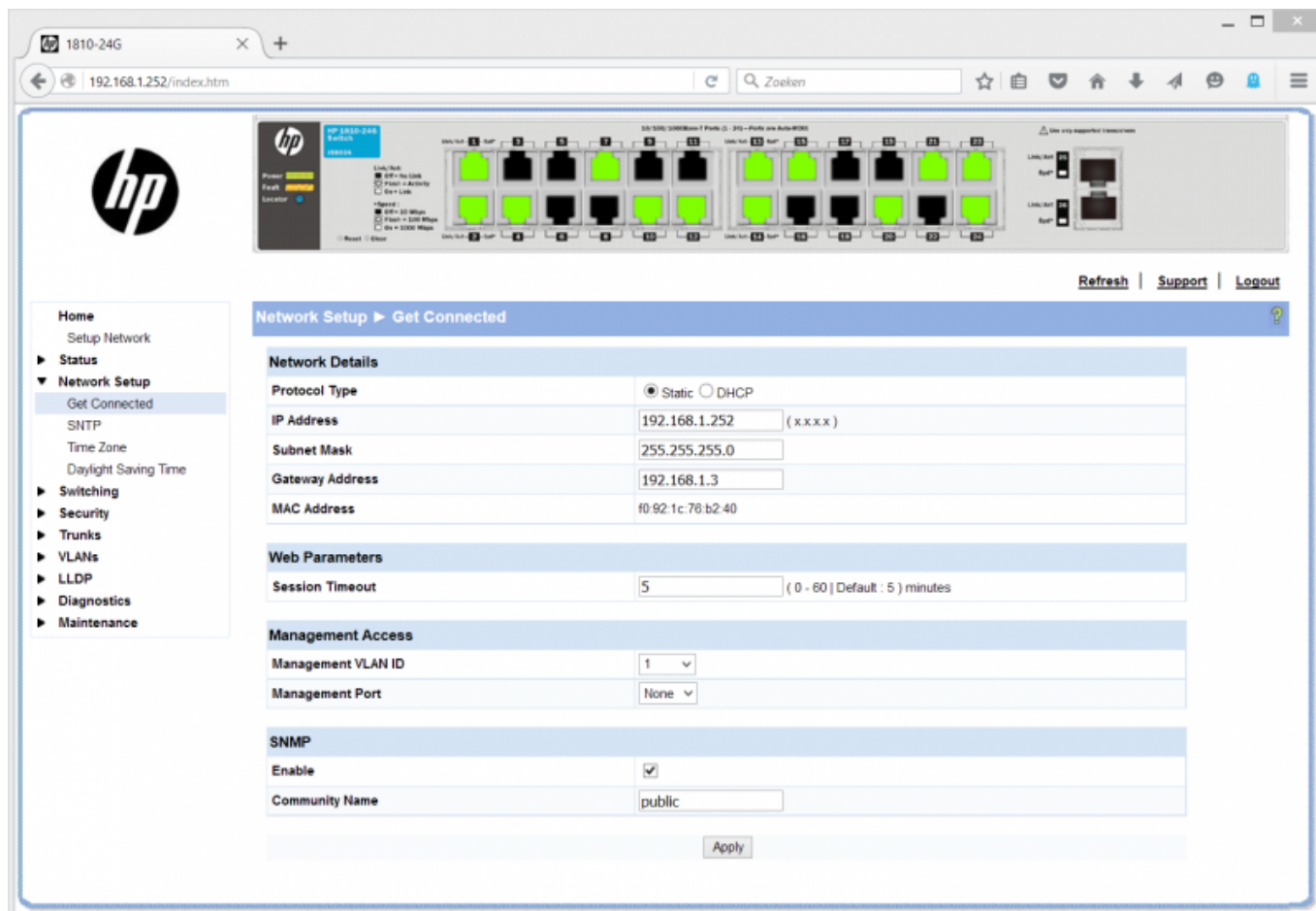


HP1810-24g switch monitoren met SNMP

We gaan SNMP gebruiken om deze switch met Cacti en Nagios te monitoren.

log in op de webinterface van de switch en navigeer in het menu links naar **Network Setup - Get Connected**



The screenshot shows the HP 1810-24G switch web interface. The browser address bar displays '192.168.1.252/index.htm'. The interface includes a top navigation bar with 'Refresh', 'Support', and 'Logout' links. A left sidebar contains a menu with 'Home', 'Setup Network', 'Status', 'Network Setup' (selected), and 'Maintenance'. The 'Network Setup' menu is expanded, showing 'Get Connected' as the active option. The main content area is titled 'Network Setup ► Get Connected' and contains several sections: 'Network Details' with fields for Protocol Type (Static selected), IP Address (192.168.1.252), Subnet Mask (255.255.255.0), Gateway Address (192.168.1.3), and MAC Address (f0:92:1c:7b:b2:40); 'Web Parameters' with a Session Timeout field set to 5 minutes; 'Management Access' with Management VLAN ID set to 1 and Management Port set to None; and 'SNMP' with the 'Enable' checkbox checked and the Community Name set to 'public'. An 'Apply' button is located at the bottom of the form.

zet bij **SNMP** het vinkje **Enable** aan en laat de community name op public staan. Druk op Apply
zorg dat je SNMP settings goed staan:

The screenshot shows the HP 1810-24G switch web interface. The browser address bar shows the URL 192.168.1.252/index.htm. The interface includes a navigation menu on the left with options like Home, Setup Network, Status, Network Setup, and SNTP. The main content area is titled 'Network Setup > SNTP' and contains the 'SNTP Configuration' section. This section includes fields for 'Enable SNTP' (checked), 'SNTP/NTP Server' (131.155.3.3), 'Server Port' (123), 'Time Format' (24 Hour), 'Last Update' (Jan 27 21:45:26 2016), 'Attempts' (266625), 'Last Update Status' (Success), and 'Failures' (1947). An 'Apply' button is at the bottom.

SNTP Configuration	
Enable SNTP	☒
SNTP/NTP Server	131.155.3.3 (x.x.x.x)
Server Port	123 (1 - 65535 Default : 123)
Time Format	24 Hour
Last Update	Jan 27 21:45:26 2016
Attempts	266625
Last Update Status	Success
Failures	1947

en de timezone (GMT+01:00)Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna.

Blijkbaar doet de switch geen automatische zomer/wintertijd switch en moet je die zelf instellen. Voor Nederland geldt:

The screenshot shows the HP 1810-24G switch web interface. The browser address bar shows the URL 192.168.1.252/index.htm. The interface includes a navigation menu on the left with options like Home, Setup Network, Status, Network Setup, and Daylight Saving Time. The main content area is titled 'Network Setup > Daylight Saving Time' and contains the 'Daylight Saving Time Configuration' section. This section includes a dropdown for 'Daylight Saving Time' (set to Recurring), 'Start Time settings' (Week: 5, Day: Sun, Month: Mar, Hours: 2, Minutes: 0), 'End Time settings' (Week: 5, Day: Sun, Month: Oct, Hours: 3, Minutes: 0), and 'Offset settings' (Offset: 60 minutes). An 'Apply' button is at the bottom.

Daylight Saving Time Configuration	
Daylight Saving Time	Recurring
Start Time settings	
Week	5
Day	Sun
Month	Mar
Hours	2
Minutes	0
End Time settings	
Week	5
Day	Sun
Month	Oct
Hours	3
Minutes	0
Offset settings	
Offset	60 (1 - 1440) minutes

Nagios

Monitor de bandwidth met MRTG.

Maak een MRTG configuratie file aan door:

```
mkdir /var/www/mrtg/switch-H
```

```
cfgmaker --global 'WorkDir: /var/www/mrtg/switch-H' --global 'Options[_]:  
bits,growright' --output /etc/mrtg/switch-H.cfg public@192.168.1.252
```

Maak de webpagina met alle gedefinieerde graphs aan met indexmaker, weer in de betreffende directory:

```
indexmaker --output=/var/www/mrtg/switch-H/index.html /etc/mrtg/switch-H.cfg
```

run een aantal keer om de eerste foutmeldingen kwijt te raken:

```
for (( i=1 ; i <= 3 ; i++ )); do env LANG=C mrtg /etc/mrtg/switch-H.cfg; done
```

zorg dat elke 5 minuten data wordt opgehaald, maak hiervoor een cron job aan:

```
vi /etc/cron.d/mrtg
```

en zet hier in:

```
* /5 * * * * root LANG=C LC_ALL=C /usr/bin/mrtg /etc/mrtg/switch-H.cfg --  
lock-file /var/lock/mrtg/switch-H_l --confcache-file /var/lib/mrtg/mrtg.ok
```

maak een nagios conf file aan:

```
vi /etc/nagios/objects/network/HP-switch.cfg
```

en zet daar in:

```
# Define the switch that we'll be monitoring

define host{
    use                generic-switch        ; Inherit default values
from a template
    host_name          HP_1810-24G          ; The name we're giving to
this switch
    alias               Switch beneden      ; A longer name associated
with the switch
    address             192.168.1.252       ; IP address of the switch
    hostgroups          switches            ; Host groups this switch is
associated with
}

# Create a service to PING to switch

define service{
    use                generic-service      ; Inherit values from a
template
    host_name          HP_1810-24G         ; The name of the host the
service is associated with
```

```
        service_description    PING                ; The service description
        check_command          check_ping!200.0,20%!600.0,60% ; The
command used to monitor the service
        normal_check_interval  5                    ; Check the service every 5
minutes under normal conditions
        retry_check_interval   1                    ; Re-check the service every
minute until its final/hard state is determined
    }

# Monitor uptime via SNMP

define service{
    use                generic-service ; Inherit values from a
template
    host_name          HP_1810-24G
    service_description Uptime
    check_command       check_snmp!-C public -o sysUpTime.0
}

# Monitor Port 1 status via SNMP

define service{
    use                generic-service ; Inherit values from a
template
    host_name          HP_1810-24G
    service_description Port 1 Link Status
    check_command       check_snmp!-C public -o ifOperStatus.1 -r 1
-m RFC1213-MIB
}

# Monitor bandwidth via MRTG logs

define service{
    use                generic-service ; Inherit values from a
template
    host_name          HP_1810-24G
    service_description Port 1 Bandwidth Usage
    check_command       check_local_mrtgtraf!/var/www/mrtg/switch-
H/192.168.1.252_1.log!AVG!1000000,1000000!5000000,5000000!10
}
```

Na een tijdje kan je kijken op de betreffende web pagina <http://example.com/mrtg/switch-h>

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<https://wiki.auriel.nl/> -

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