

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 shows the URL 192.168.1.252/index.htm. The interface includes a navigation menu on the left with options like Home, Status, Network Setup, and Switching. The main content area is titled 'Network Setup - Get Connected' and contains several configuration sections: Network Details (Protocol Type: Static, IP Address: 192.168.1.252, Subnet Mask: 255.255.255.0, Gateway Address: 192.168.1.3, MAC Address: f0:92:1c:7b:b2:40), Web Parameters (Session Timeout: 5 minutes), Management Access (Management VLAN ID: 1, Management Port: None), and SNMP (Enable: checked, Community Name: public). An 'Apply' button is at the bottom.

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 top navigation bar includes the HP logo, a status bar, and a search bar. The left sidebar contains a menu with options: Home, Setup Network, Status, Network Setup (selected), Get Connected, SNTP, Time Zone, Daylight Saving Time, Switching, Security, Trunks, VLANs, LLDP, Diagnostics, and Maintenance. The main content area is titled 'Network Setup > SNTP'. It contains a 'SNTP Configuration' section with the following fields: '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 right of the configuration section.

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, specifically the 'Daylight Saving Time Configuration' page. The left sidebar is the same as in the previous screenshot, but 'Daylight Saving Time' is now selected under 'Network Setup'. The main content area is titled 'Network Setup > Daylight Saving Time'. It contains a 'Daylight Saving Time Configuration' section with the following fields: '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), and 'Offset settings' (Offset: 60 minutes). An 'Apply' button is at the bottom right of the configuration section.

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    alias              Switch beneden          ; A longer name associated    address            192.168.1.252           ; IP address of the switch  
}  
  
# Create a service to PING to switch  
  
define service{  
    use                generic-service          ; Inherit values from a    host_name          HP_1810-24G             ; The name of the host the
```

```
        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
}
```

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