GPON & EPON OLT Frequently Asked Questions (FAQs)

Overview

Optical Line Terminal (OLT) can simplify the network architecture and reduce operating and capital expenditure, meeting the multiple scenario demands, such as hotel, healthcare, education and FTTx, etc.

Benefits

- Unified Access in All Scenarios
- Fast Access Deployment
- High Cost Performance, Low TCO
- High Bandwidth Output and Energy Efficiency
- High Reliability and Network Security

Frequently Asked Questions

1. How to configure the OLT login timeout, make the device stay online for a long time, and not be shut down and forced to quit frequently?

Control port login configuration：

Switch#config

Switch_config#line console 0

Switch_config_line#exec-timeout 0 <0-86400>

Switch_config_line#exec-timeout

Note: 0 (zero) means no time out

Logging into devices for management via Telnet or SSH:

Switch_config#line vty 0

Switch_config_line#exec-timeout 0

<0-86400>

Switch_config_line#exec-timeout

Note: 0 (zero) means no time out

2. How to configure SNMP?

Switch_config#snmp-server community 0 <BDCOM> RW

Switch_config#snmp-server host <172.16.2.30> <BDCOM> authentication configure snmp

Note: Here "BDCOM" is the community name and the IP 172.16.2.30 is your PC IP

3. How to configure the vlan and trunk mode of the OLT uplink port?

Switch#

Switch#config

Switch_config#interface gigaEthernet 0/2

Switch_config_g0/2#switchport mode dot1q-tunnel-uplink

Switch_config_g0/2#switchport trunk vlan-allowed 999,500,510

Switch_config_g0/2#switch port pvid 999

Switch_config_g0/2#exit

Switch_config#Wral

4. How to configure user permissions?

Switch_config#local author <group name>

Switch_config_<group name>#exec privilege default 8

Switch_config#username <username> password 0 <password> author-group <group name>

Example

Switch_config#local author NOC

Switch_config_local author_NOC#exec privilege default 8

Switch_config#username test password 0 test321 author-group NOC

```
OLT#Jan  2 19:34:38 User test logged in from  on console 0
conf
conf
^
Unknown command
OLT#
OLT#
OLT#?
  cd                          -- Change directory
  chinese                     -- Help message in Chinese
  connect                     -- Open a outgoing connection
  core_dump                   -- Dump core crash info
  debug                       -- Debugging functions
  diagnosis                   -- Enter diagnosis mode
  dir                         -- List files in flash memory
  disconnect                  -- Disconect an existing outgoing network connection
  enable                      -- Turn on privileged commands
  english                     -- Help message in English
  enter                       -- Turn on privileged commands
  erps                        -- Ethernet Ring Protection Switching Configuration
  ethernet                    -- Ethernet Operation
  exec-slavecore              -- Execute commands on slave core

  exit                        -- Exit / quit
  filesys_restore             -- Restore filesys normal status
  gpon                        -- Gigabit Passive Optical System
  help                        -- Description of the interactive help system
  history                     -- Look up history
  md                          -- Create directory
  no                          -- Negate configuration
  ping                        -- Test network status
```

5. How to configure storm suppression?

Switch#config

Switch_config#interfacegigaEthernet0/1

Switch_config_g0/1#storm-control broadcast thresholdxx

<1-14880> -- Enter Integer part of storm suppression level (100PPS)

Broadcast: It is a communication mode where all communication between hosts is one-to-all. In this network, signals emitted by each host are unconditionally replicated and forwarded by the network, allowing every host to receive all information, regardless of its necessity. Due to the absence of path selection, the network cost can be quite economical. A typical example of a broadcast network is a cable television network.

Switch_config_g0/1#storm-control multicast thresholdxx

<1-14880> -- Enter Integer part of storm suppression level (100PPS)

Multicast: It is a one-to-many communication mode where hosts communicate within specific groups. Hosts that belong to the same group can receive all the data transmitted within that group. In a multicast network, switches and routers only replicate and forward the required data to those hosts expressing interest in it.

Switch_config_g0/1#storm-control unicast threshold xx

<1-14880> -- Enter Integer part of storm suppression level (100PPS)

Unicast: It is a one-to-one communication mode between hosts, where switches and routers in the network only forward the data without replication. Nowadays, all web browsing operates in unicast mode, specifically using the IP unicast protocol. Routers and switches in the network determine a transmission path based on the destination address, directing the IP unicast data to its specified destination.

6. How to enable the SSH login function of the OLT?

Switch#

Switch#config

Switch_config#ip sshd enable

Switch_config#ip sshd version 2