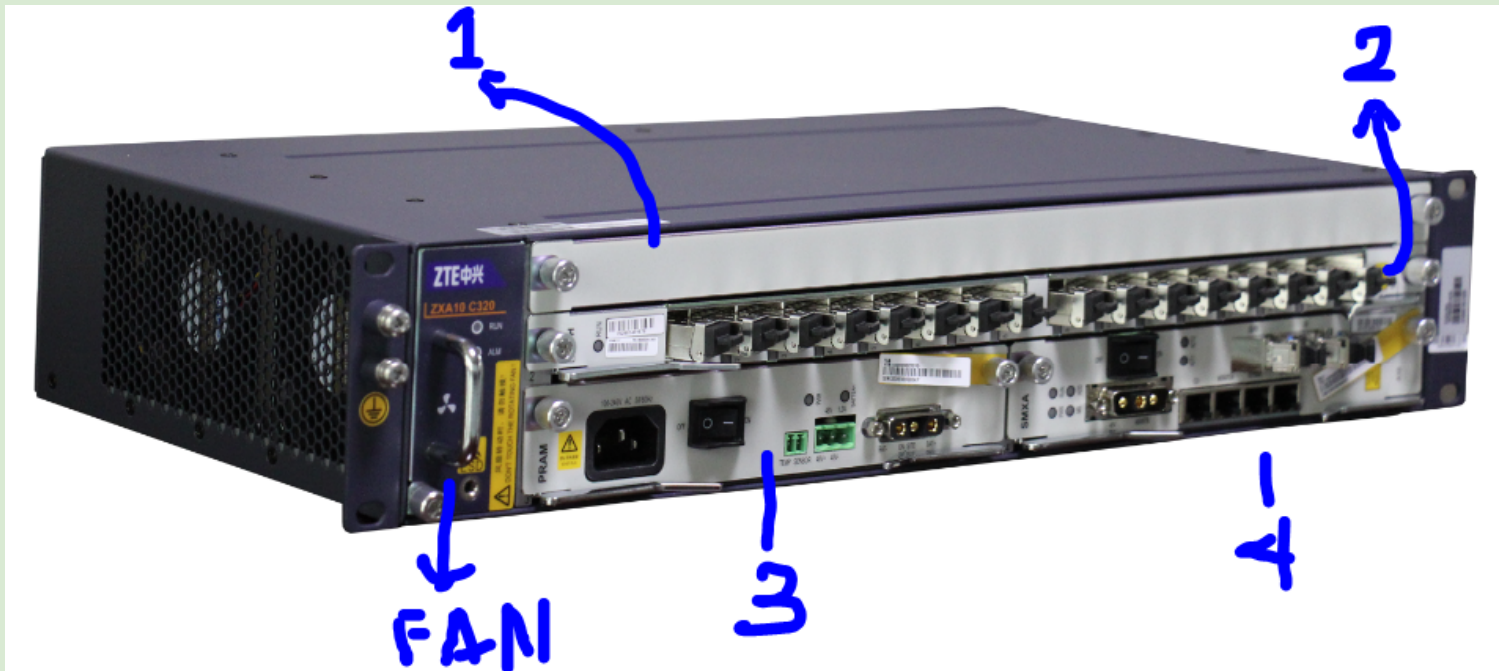


JSN Jaringanku
PT. JARINGANKU SARANA NUSANTARA
mempersembahkan
Configurasi OLT ZTE C320 , ONU dan Mikrotik

Sekilas pengenalan perangkat OLT



OLT adalah singkatan dari “Optical Line Termination” perangkat yg berfungsi sebagai server dari jaringan optik pasif. Untuk OLT sendiri banyak merek dan typenya, namun kali ini kita khusus membahas OLT keluaran ZTE dengan type C320 yg memiliki saudara type C220 dan C300 yang memiliki body yg besar untuk menampung card gpon yg banyak.

ZTE C320 standarnya memiliki komponen sasis, modul fan, card uplink (SMXA), card gpon atau epon, card power suplay (PRAM).

Sasis ZTE C320 memiliki slot modul / card. Slot 1 dan slot 2 untuk modul / card gpon atau epon. Slot 3 untuk modul / card power suplay atau card uplink. Slot 4 hanya untuk modul / card uplink. Digambar diatas angka sesuai dengan nomor urut slot. Modul / card GPON memiliki 2 seri yaitu GTGO yg memiliki 8 port dan GTGH yg memiliki 16 port. Untu uplink ada yg 1G (SMXA UCDC/1) dan 10G (SMXA UCDC/3)

Posisi card sangat menentukan untuk script konfigurasi dari OLT. Sebuah contoh gpon-olt_1/x/y dimana x adalah letak slot GPON dan y adalah urutan port sfp pada GPON. Dalam tutorial ini posisi card GPON (GTGH) berada pada slot 1 sehingga config menjadi gpon-olt_1/1/1 dan gpon-onu_1/1/1:z dimana z adalah urutan dari modem yg di register

Settingan / Konfigurasi Mikrotik untuk terhubung ke OLT

Mikrotik yg akan kita gunakan diasumsikan kosong tanpa ada konfigurasi sama sekali (reset non default)
atau jika ingin mereset ke non default menggunakan perintah berikut (resiko reset ditanggung sendiri)

```
/system reset-configuration no-defaults=yes skip-backup=yes
```

Selanjutnya mari kita setting mikrotik dengan ketentuan

```
# ether1 = Digunakan untuk terhubung Internet dengan DHCP
# ether2 = Akses remote OLT ( port di OLT 10/100 )
# ether3 = Jalur internet untuk client via OLT ( port di OLT GEFE )
# ether4 = Komputer untuk monitoring dengan ip komputer 192.168.255.2 subnet 255.255.255.0 gateway 192.168.255.1
# vlan 500 = vlan untuk jalur Hotspot berdiri di ether3
# vlan 600 = vlan untuk jalur PPPoE berdiri di ether3

# berikut ini adalah config mikrotiknya yg dapat di copy paste langsung
/user group add name=ftp
policy=local,ftp,read,write,!telnet,!ssh,!reboot,!policy,!test,!winbox,!password,!web,!sniff,!sensitive,!api,!romon,!dude,!tikapp
/user add name=zte password=zte group=ftp disabled=no
/ip service set ftp address=136.1.1.100/32,192.168.0.0/16,172.16.0.0/12,10.0.0.0/8 disabled=yes
/interface vlan add name=500-Hotspot vlan-id=500 interface=ether3
/interface vlan add name=600-PPPoE vlan-id=600 interface=ether3
/ip dhcp-client add interface=ether1 add-default-route=yes default-route-distance=1 use-peer-dns=yes use-peer-ntp=yes
/ip address add interface=ether2 address=136.1.1.1/24
/ip address add interface=ether4 address=192.168.255.1/30
/ip address add interface=500-Hotspot address=10.20.30.1/23
/ip firewall nat add chain=srcnat action=masquerade
/ip dns set servers=8.8.8.8,1.1.1.1 allow-remote-requests=yes cache-max-ttl=00:10:00 cache-size=20480 max-concurrent-tcp-sessions=100 max-concurrent-queries=1000
/ip pool add name=PPPoE ranges=10.11.12.0/22
/queue simple add max-limit=1G/1G name=ALL-Traffic target=""
/queue simple add max-limit=1G/1G name=PPPoE parent=ALL-Traffic target=""
/queue simple add max-limit=1G/1G name=Hotspot parent=ALL-Traffic target=""
/ip hotspot user profile set [ find default=yes ] parent-queue=Hotspot rate-limit=10M/10M
/ppp profile add name=PPPoE-03M change-tcp-mss=yes dns-server=10.9.8.7 local-address=10.9.8.7 only-one=yes parent-queue=PPPoE rate-limit="3M/3M 3379k/3379k 1M/1M 16/16 3 384k/384k" remote-address=PPPoE
/ppp profile add name=PPPoE-05M change-tcp-mss=yes dns-server=10.9.8.7 local-address=10.9.8.7 only-one=yes parent-queue=PPPoE rate-limit="5M/5M 5632k/5632k 1706k/1706k 16/16 4 640k/640k" remote-address=PPPoE
/ppp profile add name=PPPoE-10M change-tcp-mss=yes dns-server=10.9.8.7 local-address=10.9.8.7 only-one=yes parent-queue=PPPoE rate-limit="10M/10M 11264k/11264k 3413k/3413k 16/16 5 1280k/1280k" remote-address=PPPoE
/interface pppoe-server server add service-name=PPPoE-JSN interface=600-PPPoE max-mtu=1500 max-mru=1500 disabled=no default-profile=PPPoE-03M
/ppp secret add name=123456@jsn.net.id password=123 profile=PPPoE-03M service=pppoe
/ppp secret add name=234567@jsn.net.id password=123 profile=PPPoE-10M service=pppoe
/ip hotspot setup
```

```

[1@LAB-01] > /ip hotspot setup
Select interface to run HotSpot on

hotspot interface: 500-Hotspot
Set HotSpot address for interface

local address of network: 10.20.30.1/23
masquerade network: yes
Set pool for HotSpot addresses

address pool of network: 10.20.30.2-10.20.31.254
Select hotspot SSL certificate

select certificate: none
Select SMTP server

ip address of smtp server: 0.0.0.0
Setup DNS configuration

dns servers: 10.20.30.1
DNS name of local hotspot server

dns name: wifiku.jsn.net.id
Create local hotspot user

name of local hotspot user: ngadimin
password for the user: ntesting
[1@LAB-01] > |

```

langkah config setup dengan penjelasan sebagai berikut

Langkah 1 = Perintah setup hotspot yg kita ketik lalu tekan enter

Langkah 2 = Diminta untuk menentukan interfacenya, berhubung nama interface vlan yg kita buat adalah 500-Hotspot maka cukup ketik 5 lalu tekan tombol tab lalu enter

Langkah 3 = tekan enter

Langkah 4 = tekan enter

Langkah 5 = tekan enter

Langkah 6 = hapus yg muncul lalu ketik none

Langkah 7 = tekan enter

Langkah 8 = kita gunakan ip mikrotik yg mengarah ke hotspot lalu enter

Langkah 9 = isi dengan nama yg diinginkan, ini akan tampil di alamat hotspot lalu enter

Langkah 10 = tentukan nama user hotspot pertama lalu enter

Langkah 11 = tentukan password dari user hotspot yg pertama lalu enter

Settingan / Configurasi OLT ZTE C320 V1.2.5

(Untuk settingan V2.1 ada dibagian bawah)

Perbedaan versi membuat konfigurasi ada perubahan sedikit

Setelah konfigurasi Mikrotik sekarang kita config OLT
Telnet dari mikrotik atau komputer ke ip 136.1.1.100 dengan user zte dan password zte
lalu check config shelf dan card (jika sudah diconfig)

/system telnet 136.1.1.100

```
Terminal
MMM   MMM   III   KKK   KKK   RRR   RRR   OOOOOO   TTT   III   KKK   KKK

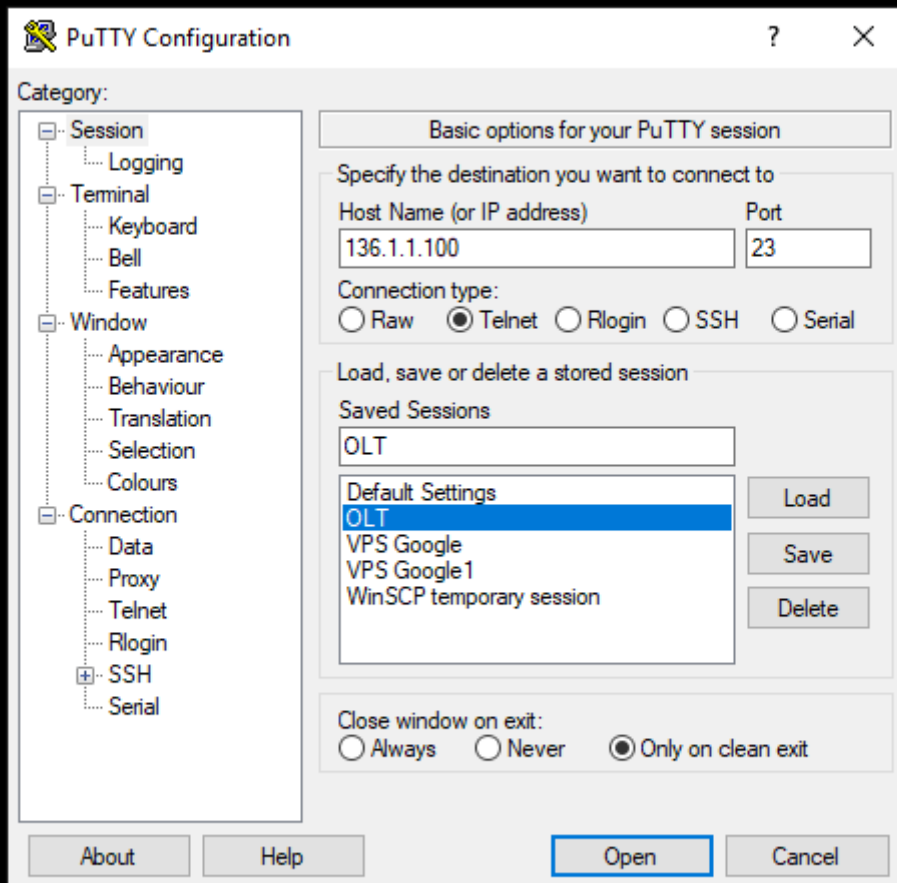
MikroTik RouterOS 6.43.4 (c) 1999-2018      http://www.mikrotik.com/

[?]          Gives the list of available commands
command [?]  Gives help on the command and list of arguments

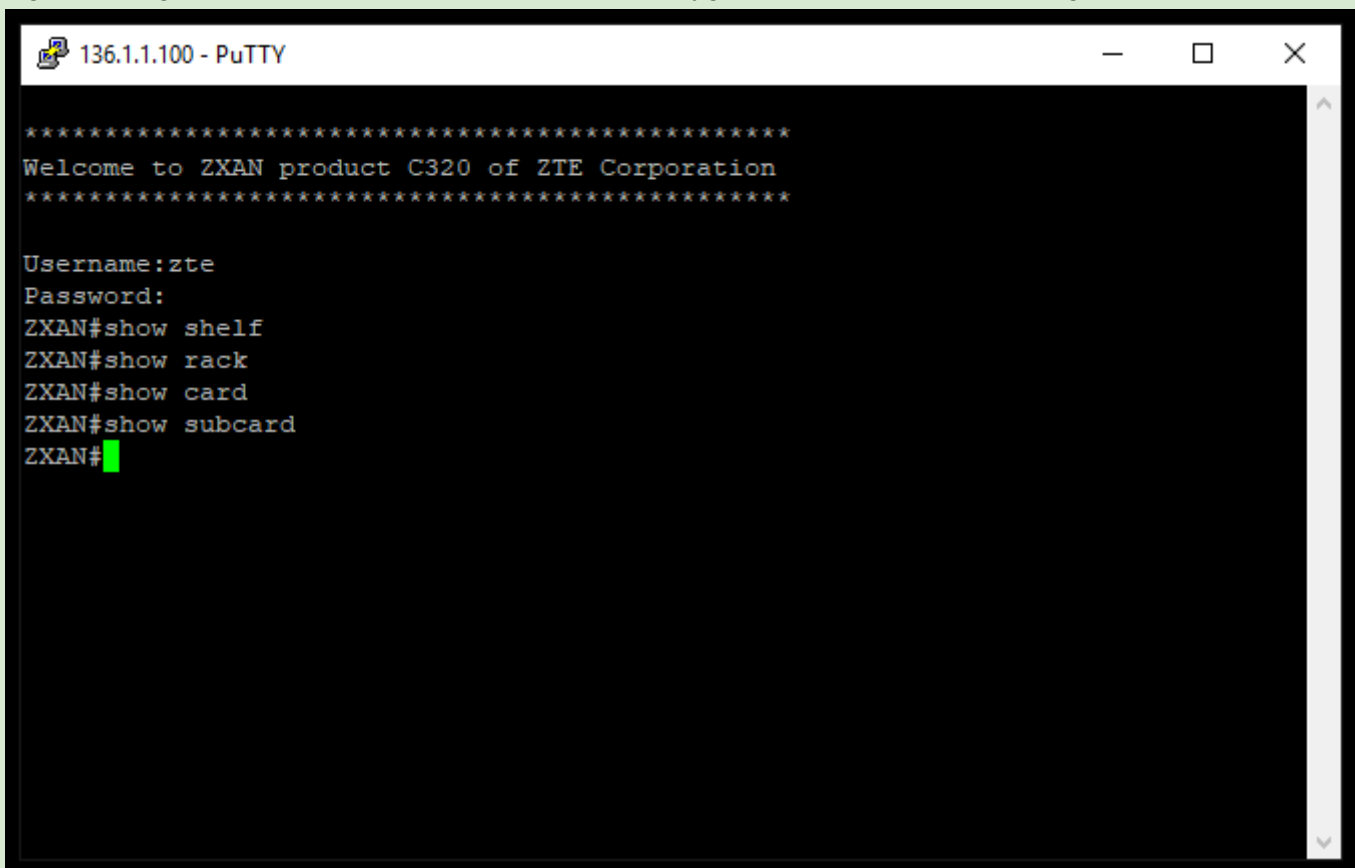
[Tab]        Completes the command/word. If the input is ambiguous,
              a second [Tab] gives possible options

/            Move up to base level
..          Move up one level
/command     Use command at the base level
[Syaifuddin.JW@R.NOC_Pati-10] > system telnet 136.1.1.100
Trying 136.1.1.100...
Connected to 136.1.1.100.
Escape character is '^]'.
*****
Welcome to ZXAN product C320 of ZTE Corporation
*****

Username:zte
Password:
ZXAN#
```



gambar login melihat shelf, rack, card dan subcard yg sama sekali belum diconfig



Perintah untuk melihat config shelf, jika tidak ada hasil maka belum diconfig sama sekali

show shelf

show rack

gambar shelf dan rack yg telah diconfig

```
ZXAN#
ZXAN#show shelf
Rack Shelf ShelfType ConnectId CleiCode Serial-Number
-----
1 1 C320_SHELF 0 UnKnowCleiCode 703471600291

ZXAN#show rack
Rack RackType SupShelfNum CfgShelfNum
-----
1 C320Rack 1 1

ZXAN#
ZXAN#
```

jika sudah ada shelf maka check card sudah terconfig atau belum. tapi sebaiknya di delet config jika belum merasa config. Berikut untuk mengecek card dan subcard

show card

show subcard

gambar card dan subcard yg sudah terconfig

```
ZXAN#show card
Rack Shelf Slot CfgType RealType Port HardVer SoftVer Status
-----
1 1 1 GTGH GTGHG 16 140901 V1.2.5P3 INSERVICE
1 1 3 PRAM PRAM 3 V1.01 INSERVICE
1 1 4 SMXA SMXA 3 131201 V1.2.5P3 INSERVICE

ZXAN#Show subcard
Rack Shelf Slot Sub CfgType RealType Status
-----
1 1 4 1 UCDC/3 UCDC/3 INSERVICE

ZXAN#
```

perintah untuk delet config (alias reset ke kosongan)

untuk melihat apakah ada config atau tidak

dir cfg

gambar melihat file config

```
ZXAN#
ZXAN#dir cfg
Directory of /flash/cfg/
attribute size date time name
-rwx 8362 JUL-13-2019 18:04:10 startrun.dat
-rwx 8362 JUL-13-2019 18:04:06 startrun.sav
Current directory 2 files total
Total disk size: 129093632 bytes (48451584 bytes free)

ZXAN#
```

jika ada file maka dapat di delet dengan perintah dibawah ini

perintah di input per baris tidak dapat sekaligus memasukkannya, akan diminta konfirmasi apakah betul ingin mendelet atau tidak, jika iya maka tekan y

delete cfg startrun.dat

delete cfg startrun.sav

gambar menghapus file config

```
ZXAN#
ZXAN#
ZXAN#delete cfg startrun.dat
Confirm to delete?[yes/no]:y
Start deleting file
deleting startrun.dat..
[Successfully]
ZXAN#
ZXAN#delete cfg startrun.sav
Confirm to delete?[yes/no]:y
Start deleting file
deleting startrun.sav..
[Successfully]
ZXAN#
```

setelah itu reboot dengan perintah
reboot

gambar perintah reboot dan permintaan konfirmasi bahwa memang ingin me reboot

```
ZXAN#
ZXAN#reboot
Confirm to reboot? [yes/no]:y
ZXAN#
```

memulai config dari kosongan

```
conf t
set-pnp enable
line telnet idle-timeout 1000
snmp-server community public view allview rw
snmp-server enable trap
ip route 0.0.0.0 0.0.0.0 136.1.1.1
auto-write enable
auto-write 00:00:00 everyday
ntp server 103.136.182.170 priority 1
ntp server 203.114.74.17 priority 2
ntp enable
alarm disable
alarm confirm
nms-hello-trap disable
alarm trap-confirm retry 1 timeout 30
add-rack rackno 1 racktype C320Rack
add-shelf shelfno 1 shelftype C320_SHELF
```

tunggu beberapa saat untuk waktu auto provision sekitar 3 menit

selanjutnya check card yg ada agar tau type dan slotnya

```
show card
show subcard
```

gambar tampilan informasi card dan subcard yg belum diconfig


```

ZXAN(config)#
ZXAN(config)#show card

```

Rack	Shelf	Slot	CfgType	RealType	Port	HardVer	SoftVer	Status
1	1	1		GTGHG	N/A	140901	V1.2.5P3	HWONLINE
1	1	3	PRAM	PRAM	3		V1.01	INSERVICE
1	1	4	SMXA	SMXA	3	131201	V1.2.5P3	INSERVICE

```

ZXAN(config)#show subcard

```

Rack	Shelf	Slot	Sub	CfgType	RealType	Status
1	1	4	1		UCDC/3	HWONLINE

```

ZXAN(config)#

```

check kembali card sampai status "INSERVICE" lalu lanjut perintah selanjutnya dapat dicopi sampai pagar selanjutnya

```
fan control temp_level 30 35 40 45
```

```
fan speed-percent-set 40 50 60 70
```

```
# fan control temp_level 30 35 40 45
```

```
# fan speed-percent-set 50 65 80 95
```

```
fan high-threshold 60
```

```
gpon
```

```
profile tcont 100M type 4 maximum 100000
```

```
profile traffic DW100M sir 90000 pir 100000
```

```
profile traffic UP100M sir 90000 pir 100000
```

profile ip dibawah ini digunakan jika ingin menggunakan mode ip static ke modem bukan pppoe

sesuaikan dari gateway dan dns server yg digunakan

```
onu profile ip JSN static gateway 192.168.79.254 primary-dns 103.80.80.243 second-dns 103.80.80.244
```

```
onu profile vlan PPPoE tag-mode tag cvlan 600
```

```
exit
```

```
pon
```

```
onu-type ZTE-F660 gpon description 4ETH,2POTS,WIFI service-mgmt-via-non-omci wifi enable
```

```
onu-type ZTE-F660 gpon max-tcont 7 max-gemport 32 max-switch-perslot 8 max-flow-perswitch 32 max-iphost 5
```

```
onu-type-if ZTE-F660 eth_0/1-4
```

```
onu-type-if ZTE-F660 pots_0/1-2
```

```
onu-type-if ZTE-F660 wifi_0/1-4
```

```
onu-type ZTE-F609 gpon description 4ETH,2POTS,WIFI service-mgmt-via-non-omci wifi enable
```

```
onu-type ZTE-F609 gpon max-tcont 7 max-gemport 32 max-switch-perslot 8 max-flow-perswitch 32 max-iphost 5
```

```
onu-type-if ZTE-F609 eth_0/1-4
```

```
onu-type-if ZTE-F609 pots_0/1-2
```

```
onu-type-if ZTE-F609 wifi_0/1-4
```

```
onu-type HW-HG8245A gpon description 4ETH,2POTS,WIFI service-mgmt-via-non-omci wifi enable
```

```
onu-type HW-HG8245A gpon max-tcont 40 max-gemport 255 max-switch-perslot 32 max-flow-perswitch 200
```

```
max-iphost 5
```

```
onu-type-if HW-HG8245A eth_0/1-4
```

```
onu-type-if HW-HG8245A pots_0/1-2
```

```
onu-type-if HW-HG8245A wifi_0/1-4
```

```
exit
```

sesuaikan dengan slot SMXA yaitu angka urutan ke 2 (ditengah)

```
interface gei_1/4/3
```

```
no shutdown
```

```
switchport mode trunk
```

tentukan vlan yg diinginkan untuk layanan PPPoE ataupun bridge dhcp misal VLAN 600, jika ada beberapa vlan maka gunakan koma antar vlan misal vlan 500 dan 600 maka ditulis 500,600


```

switchport vlan 500,600 tag
exit
# berikut untuk interface 10g
interface xgei_1/4/2
no shutdown
switchport mode trunk
switchport vlan 500,600 tag
end
write

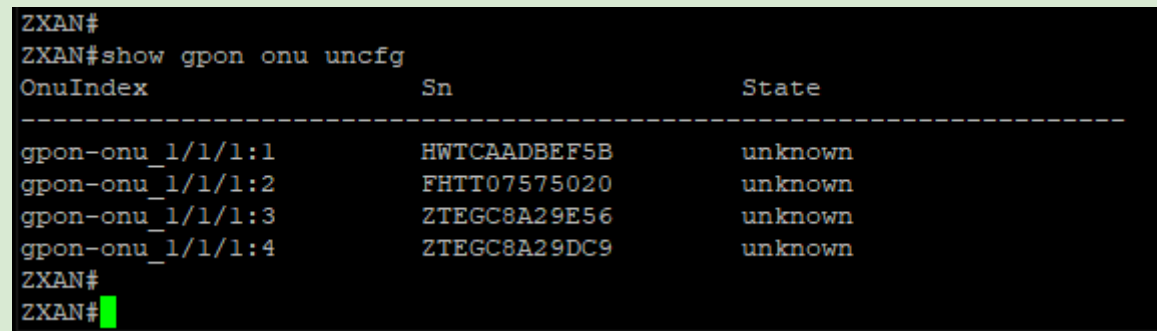
```

#sampai disini sudah selesai persiapan config awal OLT, selanjutnya pengecekan modem dan setting

untuk melihat modem yg belum ter register

Show gpon onu uncfg

gambar informasi onu yg belum diconfig, dari Sn 3 huruf diawal mencerminkan mereknya



```

ZXAN#
ZXAN#show gpon onu uncfg
OnuIndex                Sn                State
-----
gpon-onu_1/1/1:1        HWTCAADB EF5B      unknown
gpon-onu_1/1/1:2        FH TT07575020      unknown
gpon-onu_1/1/1:3        ZTEGC8A29E56       unknown
gpon-onu_1/1/1:4        ZTEGC8A29DC9       unknown
ZXAN#
ZXAN#

```

conf t

angka 1/1/1 sesuaikan urutan di tengah dengan letak slot si card GPON, sedangkan angka terakhir untuk letak port GPON pada card tersebut yg sebetulnya terlihat dari pengecekan modem yg belum terconfig

interface gpon-olt_1/1/1

sesuaikan urutan onu, type dan sn nya, sebaiknya untuk colok ke jalur gpon dilakukan 1 per 1, tidak bersamaan karena akan bingung jika sudah dilapangan.

onu 1 type ZTE-F609 sn ZTEGC8A29DC9

exit

#sesuaikan gpon-onu_1/1/1:1 dengan urutan slot, card, port gpon dan urutan modem di register diatas

interface gpon-onu_1/1/1:1

#sesuaikan nama dan deskripsi

name PEMDA

description 1\$\$PEMDA\$\$

sn-bind enable sn

tcont 1 name JSN profile 100M

tcont 2 name HOT profile 100M

gemport 1 name JSN unicast tcont 1 dir both

gemport 1 traffic-limit upstream UP100M downstream DW100M

gemport 2 name HOT unicast tcont 2 dir both

gemport 2 traffic-limit upstream UP100M downstream DW100M

switchport mode hybrid vport 1

switchport mode hybrid vport 2

service-port 1 vport 1 user-vlan 600 vlan 600

service-port 2 vport 2 user-vlan 500 vlan 500

port-location format dsl-forum sport 1

port-location sub-option remote-id enable sport 1

port-location sub-option remote-id name 600 sport 1

```
port-location ft-cid 600 sport 1
pppoe-plus enable sport 1
pppoe-plus trust true replace sport 1
exit
```

#sesuaikan gpon-onu_1/1/1:1 dengan urutan slot, card, port gpon dan urutan modem di register diatas

```
pon-onu-mng gpon-onu_1/1/1:1
service JSN type internet gempport 1 vlan 600
service HOT type internet gempport 2 vlan 500
#sesuaikan username PPPoE dan password
wan-ip 1 mode pppoe username 123456@jsn.net.id password 123 vlan-profile PPPoE host 1
wan-ip 1 ping-response enable traceroute-response enable
security-mng 1 state enable mode permit protocol web
interface wifi wifi_0/2 state unlock
vlan port eth_0/4 mode tag vlan 500
vlan port wifi_0/2 mode tag vlan 500
ssid auth wep wifi_0/2 open-system
# untuk SSID dibawah ini sesuaikan dengan SSID yg diinginkan
ssid ctrl wifi_0/2 name HOTSPOTKU
exit
end
write
```

Sampai disini selesai config modem pertama, untuk selanjutnya tinggal diulang dari melihat modem yg belum terregister sampai selesai, tentu disesuaikan port, user password dan yg perlu di sesuaikan lainnya
jangan lupa untuk membuat firewall di mikrotik agar hanya dari segmen atau ip tertentu saja yg dapat mengakses ke 136.1.1.100

contoh config ke 2 untuk menggunakan ip static
show gpon onu uncfg

```
ZXAN#
ZXAN#
ZXAN#
ZXAN#show gpon onu uncfg
OnuIndex          Sn                      State
-----
gpon-onu_1/1/1:1  FHTT07575020          unknown
gpon-onu_1/1/1:2  HWTCAADBEF5B          unknown
gpon-onu_1/1/1:3  ZTEGC8A29E56          unknown
ZXAN#
```

```
conf t
interface gpon-olt_1/1/1
onu 2 type ZTE-F609 sn ZTEGC8A29E56
exit
interface gpon-onu_1/1/1:2
name Client 2
description 1$$Client 2$$
sn-bind enable sn
```

```

tcont 1 name JSN profile 100M
tcont 2 name HOT profile 100M
gemport 1 name JSN unicast tcont 1 dir both
gemport 1 traffic-limit upstream UP100M downstream DW100M
gemport 2 name HOT unicast tcont 2 dir both
gemport 2 traffic-limit upstream UP100M downstream DW100M
switchport mode hybrid vport 1
switchport mode hybrid vport 2
service-port 1 vport 1 user-vlan 600 vlan 600
service-port 2 vport 2 user-vlan 500 vlan 500
port-location format dsl-forum sport 1
port-location sub-option remote-id enable sport 1
port-location sub-option remote-id name 600 sport 1
port-location ft-cid 600 sport 1
pppoe-plus enable sport 1
pppoe-plus trust true replace sport 1
exit
pon-onu-mng gpon-onu_1/1/1:2
  service JSN type internet gemport 1 vlan 600
  service HOT type internet gemport 2 vlan 500
  wan-ip 1 mode static ip-profile JSN ip 192.168.79.1 mask 255.255.255.0 vlan-profile PPPoE host 1
# perintah yg dipagar dibawah ini berfungsi untuk membuka security modem agar dapat diremote dari luar. Boleh
dimasukkan tapi sebaiknya di buang kembali jika sudah
# security-mng 1 state enable mode permit protocol web
  interface wifi wifi_0/2 state unlock
  vlan port eth_0/4 mode tag vlan 500
  vlan port wifi_0/2 mode tag vlan 500
  ssid auth wep wifi_0/2 open-system
# untuk SSID dibawah ini sesuaikan dengan SSID yg diinginkan
  ssid ctrl wifi_0/2 name HOTSPOTKU
  wan 1 service internet host 1
exit
end
write

```

Contoh config ke 3 bridging modem HUAWEI atau Fiberhome
conf t

```

interface gpon-olt_1/1/1
  onu 3 type ZTE-F641 sn HWTCAADBEF5B
exit
interface gpon-onu_1/1/1:1
  sn-bind enable sn
  tcont 1 name JSN profile 100M
  gemport 1 name 1 unicast tcont 1 dir both
  gemport 1 traffic-limit upstream UP100M downstream DW100M
  switchport mode hybrid vport 1
  service-port 1 vport 1 user-vlan 600 vlan 600
exit
pon-onu-mng gpon-onu_1/1/1:1

```

```

service hsi gempport 1 vlan 600
vlan port eth_0/1 mode tag vlan 600
vlan port eth_0/2 mode tag vlan 600
vlan port eth_0/3 mode tag vlan 600
vlan port eth_0/4 mode tag vlan 600
exit
end
Write
# setting ke 5 untuk modem HUAWEI dengan mode PPPoE namun harus setting manual di modem juga
#
conf t
interface gpon-olt_1/1/1
onu 3 type ZTE-F641 sn HWTCAADBEF5B
exit
interface gpon-onu_1/1/1:3
sn-bind enable sn
tcont 1 name JSN profile 100M
tcont 2 name HOT profile 100M
gempport 1 name JSN unicast tcont 1 dir both
gempport 1 traffic-limit upstream UP100M downstream DW100M
gempport 2 name HOT unicast tcont 2 dir both
gempport 2 traffic-limit upstream UP100M downstream DW100M
switchport mode hybrid vport 1
switchport mode hybrid vport 2
service-port 1 vport 1 user-vlan 600 vlan 600
service-port 2 vport 2 user-vlan 500 vlan 500
port-location format dsl-forum sport 1
port-location sub-option remote-id enable sport 1
port-location sub-option remote-id name 600 sport 1
port-location ft-cid 600 sport 1
pppoe-plus enable sport 1
pppoe-plus trust true replace sport 1
exit
pon-onu-mng gpon-onu_1/1/1:3
service JSN type internet gempport 1 vlan 600
service HOT type internet gempport 2 vlan 500
switchport-bind switch_0/1 iphost 1
switchport-bind switch_0/1 iphost 2
exit
end
write

# contoh setting modem dengan mode super user. Untuk user/passwordnya dapat dicoba menggunakan
user/password berikut
# Support/theworldinyourhand atau telecomadmin/admintelecom

```



HG8245A

StatusWANLANIPv6WLANSecurityRouteForward RulesNetwork Applic

Firewall Level Configuration

IP Filter Configuration
MAC Filter Configuration
WLAN MAC Filter Configuration
URL Filter Configuration
DoS Configuration
ONT Access Control Configuration
WAN Access Control Configuration

Security > Firewall Level Configuration

On this page, you can configure the firewall level.

Current Firewall Level:High

Firewall Level:

High
Disabled
High
Medium
Low
User-defined



HG8245A

StatusWANLANIPv6WLANSecurityRouteForward RulesNetwork ApplicationVoiceSystem Tools

Logout

LAN Port Work Mode

LAN Host Configuration
DHCP Server Configuration
DHCP Static IP Configuration

LAN > LAN Port Work Mode

On this page, you can configure LAN ports as Layer 3 ports by selecting the corresponding check boxes. The Layer 3 ports will be assigned as HG ports.

☒ LAN1

☒ LAN2

☒ LAN3

☒ LAN4

ApplyCancel



HG8245A

[Logout](#)

Status WAN LAN IPv6 **WLAN** Security Route Forward Rules Network Application Voice System Tools

WLAN Basic Configuration

WLAN > WLAN Basic Configuration

WLAN Advanced Configuration

On this page, you can set basic WLAN parameters(When the WLAN function is disabled, this page is blank).

⚠ Caution:

Wireless network services may be interrupted temporarily after you modify wireless network parameters.

☒ Enable WLAN

New Delete

	SSID Index	SSID Name	SSID Status	Number of Associated Devices	Broadcast SSID	Security Configuration
☐	1	HUAWEI-25fn	Enabled	32	Enabled	Unconfigured
	---	---	---	---	---	---

SSID Configuration Details

SSID Name: * (1-32 characters)

Enable SSID: ☒

Number of Associated Devices: * (1-32)

Broadcast SSID: ☒

Enable WMM: ☒

Apply Cancel



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WAN Configuration

WAN > WAN Configuration

On this page, you can configure WAN port parameters. The ONT (home gateway) uses a WAN port to communicate with upper-layer network equipment. Therefore, these parameters must be consistent between the ONT and the network equipment.

[New](#) [Delete](#)

Connection Name	VLAN/Priority	Protocol Type
-----------------	---------------	---------------

Basic Information

Enable WAN:	☒
Encapsulation Mode:	☐ IPoE ☒ PPPoE
Protocol Type:	IPv4
WAN Mode:	Route WAN
Service Type:	INTERNET
Enable VLAN:	☒
VLAN ID:	600 *(1-4094)
802.1p Policy:	☒ Use the specified value ☐ Copy from IP precedence
802.1p:	0
MRU:	(1-1540)
User Name:	234567@jsn.net.id
Password:	***
Enable LCP Detection:	☐
Binding Options:	☐ LAN1 ☐ LAN2 ☐ LAN3 ☐ LAN4 ☐ SSID1 ☐ SSID2 ☐ SSID3 ☐ SSID4

IPv4 Information

IP Acquisition Mode:	☐ Static ☐ DHCP ☒ PPPoE
Enable NAT:	☒
NAT type:	Port-restricted cone NAT
Dialing Method:	Automatic
Multicast VLAN ID:	(1-4094)
DNSv4 for IPv6:	☐

[Apply](#) [Cancel](#)


HG8245A
Logout

Status
WAN
LAN
IPv6
WLAN
Security
Route
Forward Rules
Network Application
Voice
System Tools

WAN Configuration
WAN > WAN Configuration

On this page, you can configure WAN port parameters. The ONT (home gateway) uses a WAN port to communicate with upper-layer network equipment. Therefore, these parameters must be consistent between the ONT and the network equipment.

New
Delete

	Connection Name	VLAN/Priority	Protocol Type
☐	1_INTERNET_R VID_600	600/0	IPv4

Basic Information

Enable WAN:

☒

Encapsulation Mode:

☒ IPoE
 ☐ PPPoE

Protocol Type:

IPv4

WAN Mode:

Bridge WAN

Service Type:

INTERNET

Enable VLAN:

☒

VLAN ID:

500

(1-4094)

802.1p Policy:

☒ Use the specified value
 ☐ Copy from IP precedence

802.1p:

0

Binding Options:

☐ LAN1
 ☐ LAN2
 ☐ LAN3
 ☐ LAN4
 ☐ SSID1
 ☒ SSID2
 ☐ SSID3
 ☐ SSID4

IPv4 Information

Multicast VLAN ID:

(1-4094)

Apply
Cancel


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perintah untuk melihat power dari olt dan ont, syarat ont sudah diregister terlebih dahulu

```
show pon power olt-rx gpon-onu_1/1/1:1
show pon power attenuation gpon-onu_1/1/1:1
show pon power onu-rx gpon-onu_1/1/1:1
```

```
ZXAN#
ZXAN#
ZXAN#show pon power olt-rx gpon-onu_1/1/1:1
Rx power: -4.000 (dbm)
ZXAN#sho pon power attenuation gpon-onu_1/1/1:1
      OLT              ONU              Attenuation
-----
up      Rx :-4.000 (dbm)      Tx:1.961 (dbm)      5.961 (dB)

down    Tx :7.067 (dbm)      Rx:-3.231 (dbm)      10.298 (dB)
ZXAN#sho pon power onu-rx gpon-onu_1/1/1:1
Onu              Rx power
-----
gpon-onu_1/1/1:1      -3.231 (dbm)
ZXAN#
```

untuk melihat temperature

```
Show temp
```

untuk backup file config ke mikrotik (service ftp harus enable)

```
upload cfg * ftp ipaddress 136.1.1.1 user user-winbox password pass-winbox
```

```
interface gpon-onu_1/1/1:1
  name PEMDA
  description 1$$PEMDA$$
  sn-bind enable sn
  tcont 1 name JSN profile 100M
  tcont 2 name HOT profile 100M
  gemport 1 name JSN unicast tcont 1 dir both
  gemport 1 traffic-limit upstream UP100M downstream DW100M
  gemport 2 name HOT unicast tcont 2 dir both
  gemport 2 traffic-limit upstream UP100M downstream DW100M
  switchport mode hybrid vport 1
  switchport mode hybrid vport 2
  service-port 1 vport 1 user-vlan 600 vlan 600
  service-port 2 vport 2 user-vlan 500 vlan 500
  port-location format dsl-forum sport 1
  port-location sub-option remote-id enable sport 1
  port-location sub-option remote-id name 600 sport 1
  port-location ft-cid 600 sport 1
  pppoe-plus enable sport 1
  pppoe-plus trust true replace sport 1
exit
```

```
pon-onu-mng gpon-onu_1/1/1:1
  service JSN type internet gemport 1 vlan 600
  service HOT type internet gemport 2 vlan 500
#sesuaikan username PPPoE dan password
wan-ip 1 mode pppoe username 123456@jsn.net.id password 123 vlan-profile PPPoE host 1
wan-ip 1 ping-response enable traceroute-response enable
interface wifi wifi_0/2 state unlock
interface wifi wifi_0/3 state unlock
interface wifi wifi_0/4 state unlock
vlan port eth_0/4 mode tag vlan 500
vlan port wifi_0/3 mode tag vlan 500
ssid auth wep wifi_0/1 open-system
ssid auth wpa wifi_0/2 wpa2-psk key qwerty123456
ssid auth wep wifi_0/3 open-system
ssid auth wep wifi_0/4 open-system
ssid ctrl wifi_0/1 name 1
ssid ctrl wifi_0/2 name WIFIKU-ae
ssid ctrl wifi_0/3 name HOTSPOTKU
ssid ctrl wifi_0/4 name 4
```

```
    interface wifi wifi_0/1 state lock
    interface wifi wifi_0/4 state lock
exit
end
write
```

Konfigurasi ZTE C320 V2.1

Perbedaan versi pada OLT ZTE C320 mengakibatkan sedikit perubahan pada config. Selain itu default dari port Uplink dan port GPON semua dalam kondisi shutdown, sehingga harus diaktifkan dengan menggunakan perintah “no shutdown”. IP di settingan SNMP adalah ip dari netnumen untuk settingan “snmp-server community public view [AllView](#) rw” case sensitif. Untuk versi 2.1 ini config awal harus dimulai dari console dengan mengetikkan perintah enable dengan default password zxr10

```
conf t
set-pnp enable
username zte password zte privilege 15
line telnet idle-timeout 1000
line console idle-timeout 1000
ip route 0.0.0.0 0.0.0.0 136.1.1.1
auto-write enable
auto-write 00:00:00 everyday
ntp server 103.136.182.170 priority 1
ntp server 203.114.74.17 priority 2
ntp enable
alarm disable
alarm confirm
nms-hello-trap disable
alarm trap-confirm retry 1 timeout 30
fan control temp_level 40 50 60 65
fan speed-percent-set 40 50 60 70
snmp-server community public view AllView rw
snmp-server host 10.10.10.10 version 2c public enable NOTIFICATIONS target-addr-name zte udp-port 162
gpon
    profile tcont 100M type 4 maximum 102400
    profile traffic DW100M sir 102400 pir 102400
    profile traffic UP100M sir 102400 pir 102400
    onu profile ip JSN gateway 192.168.79.254 primary-dns 103.80.80.243 second-dns 103.80.80.244
    onu profile vlan PPPoE tag-mode tag cvlan 600
!
pon
onu-type ZTE-F660 gpon description 4ETH,2POTS,WIFI service-mgmt-via-non-omci wifi enable
onu-type ZTE-F660 gpon max-tcont 7 max-gemport 32 max-switch-perslot 8 max-flow-perswitch 32 max-iphost 5
onu-type-if ZTE-F660 eth_0/1-4
onu-type-if ZTE-F660 pots_0/1-2
onu-type-if ZTE-F660 wifi_0/1-4
onu-type ZTE-F609 gpon description 4ETH,2POTS,WIFI service-mgmt-via-non-omci wifi enable
onu-type ZTE-F609 gpon max-tcont 7 max-gemport 32 max-switch-perslot 8 max-flow-perswitch 32 max-iphost 5
onu-type-if ZTE-F609 eth_0/1-4
onu-type-if ZTE-F609 pots_0/1-2
onu-type-if ZTE-F609 wifi_0/1-4
onu-type HW-HG8245A gpon description 4ETH,2POTS,WIFI max-tcont 40 max-gemport 255 max-switch-perslot
32 max-flow-perswitch 200 max-iphost 5
onu-type-if HW-HG8245A eth_0/1-4
onu-type-if HW-HG8245A pots_0/1-2
onu-type-if HW-HG8245A wifi_0/1-4
!
```

```
interface gei_1/4/3
switchport mode trunk
switchport vlan 500,600 tag
no shutdown
end
write
```

```
conf t
interface gpon-olt_1/1/1
no shutdown
onu 1 type ZTE-F609 sn ZTEGC8969621
onu 2 type ZTE-F609 sn ZTEGC896969B
!
interface gpon-onu_1/1/1:1
name PEMDA1
description 1$$PEMDA1$$
tcont 1 name JSN profile 100M
tcont 2 name HOT profile 100M
gemport 1 name JSN tcont 1
gemport 1 traffic-limit upstream UP100M downstream DW100M
gemport 2 name HOT tcont 2
gemport 2 traffic-limit upstream UP100M downstream DW100M
service-port 1 vport 1 user-vlan 600 vlan 600
service-port 2 vport 2 user-vlan 500 vlan 500
port-identification format DSL-FORUM-PON sport 1
pppoe-intermediate-agent enable sport 1
!
pon-onu-mng gpon-onu_1/1/1:1
service JSN gemport 1 vlan 600
service HOT gemport 2 vlan 500
wan-ip 1 mode pppoe username 123456@jsn.net.id password 123 vlan-profile PPPoE host 1
wan-ip 1 ping-response enable traceroute-response enable
vlan port eth_0/4 mode tag vlan 500
vlan port wifi_0/2 mode tag vlan 500
interface wifi wifi_0/2 state unlock
security-mgmt 1 state enable mode forward protocol web
ssid auth wep wifi_0/2 open-system
ssid ctrl wifi_0/2 name HOTSPOTKU01
!
interface gpon-onu_1/1/1:2
name PEMDA2
description 1$$PEMDA2$$
tcont 1 name JSN profile 100M
tcont 2 name HOT profile 100M
gemport 1 name JSN tcont 1
gemport 1 traffic-limit upstream UP100M downstream DW100M
gemport 2 name HOT tcont 2
gemport 2 traffic-limit upstream UP100M downstream DW100M
service-port 1 vport 1 user-vlan 600 vlan 600
```

```

service-port 2 vport 2 user-vlan 500 vlan 500
port-identification format DSL-FORUM-PON sport 1
pppoe-intermediate-agent enable sport 1
!
pon-onu-mng gpon-onu_1/1/1:2
service JSN gemport 1 vlan 600
service HOT gemport 2 vlan 500
wan-ip 1 mode pppoe username 234567@jsn.net.id password 123 vlan-profile PPPoE host 1
wan-ip 1 ping-response enable traceroute-response enable
vlan port eth_0/4 mode tag vlan 500
vlan port wifi_0/2 mode tag vlan 500
interface wifi wifi_0/2 state unlock
security-mgmt 1 state enable mode forward protocol web
ssid auth wep wifi_0/2 open-system
ssid ctrl wifi_0/2 name HOTSPOTKU02
!
end
write

```

untuk modem HUAWEI dengan mode PPPoE (namun harus setting manual di modem juga)

```

conf t
interface gpon-olt_1/1/1
onu 3 type ZTE-F641 sn HWTCAADBEF5B
!
interface gpon-onu_1/1/1:3
sn-bind enable sn
tcont 1 name JSN profile 100M
tcont 2 name HOT profile 100M
gemport 1 name JSN tcont 1
gemport 1 traffic-limit upstream UP100M downstream DW100M
gemport 2 name HOT tcont 2
gemport 2 traffic-limit upstream UP100M downstream DW100M
switchport mode hybrid vport 1
switchport mode hybrid vport 2
service-port 1 vport 1 user-vlan 600 vlan 600
service-port 2 vport 2 user-vlan 500 vlan 500
port-identification format DSL-FORUM-PON sport 1
pppoe-intermediate-agent enable sport 1
!
pon-onu-mng gpon-onu_1/1/1:3
service JSN gemport 1 vlan 600
service HOT gemport 2 vlan 500
switchport-bind switch_0/1 iphost 1
switchport-bind switch_0/1 iphost 2
!
end
write

```

