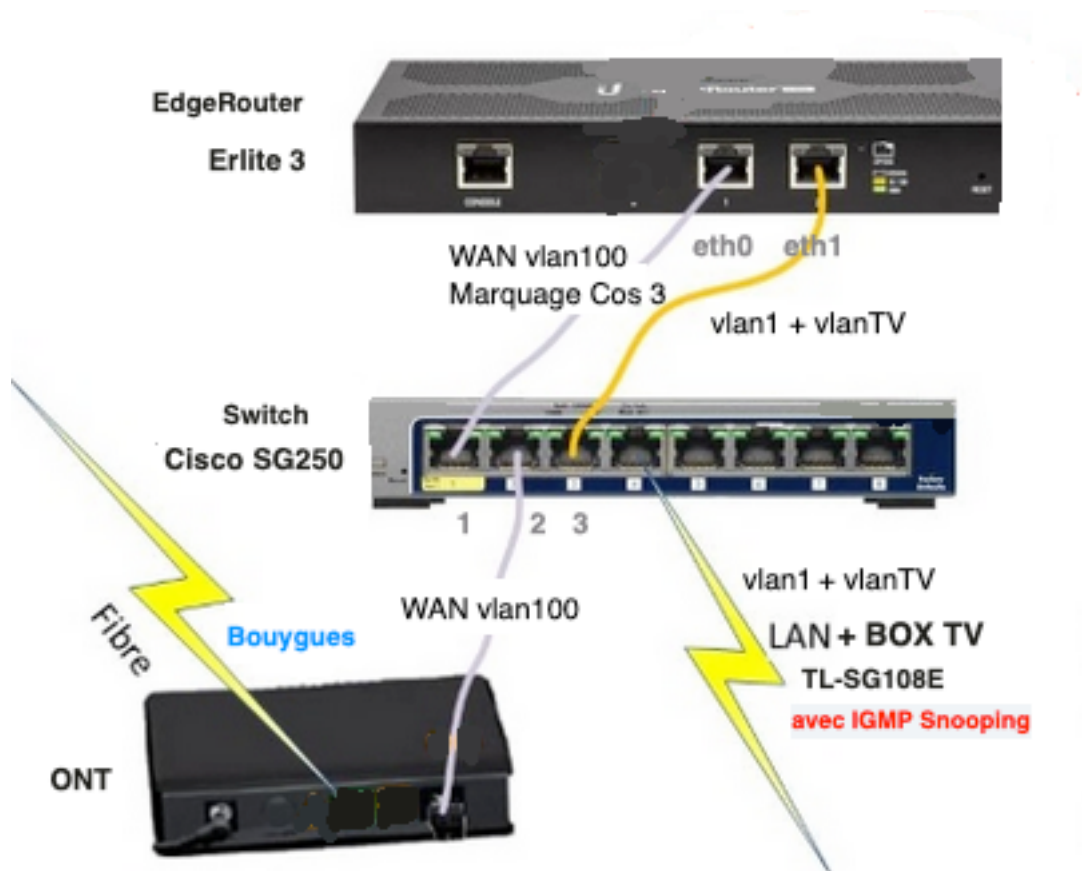
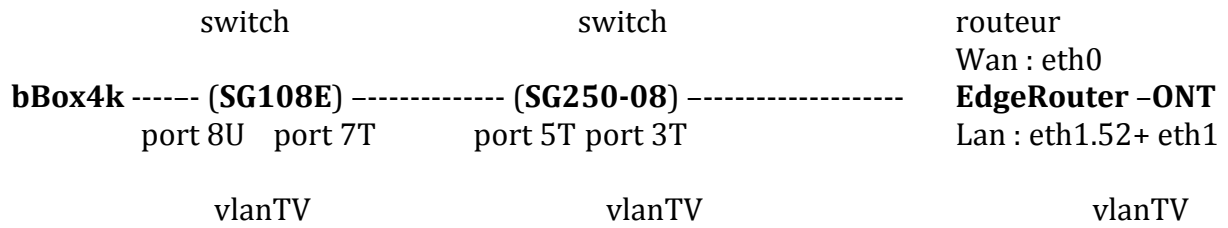


## 0-Topologie du réseau :



1-Création vlan52 (vlanTV : PVID 52) sur switch manageable L2, **TL-SG108E** :  
cf. <https://www.youtube.com/watch?v=xk-j55bko-Q&app=desktop>

TL-SG108E

System

Switching

Monitoring

VLAN

- MTU VLAN
- Port Based VLAN
- 802.1Q VLAN
  - **802.1Q PVID Setting**

QoS

Save Config

Logout

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802.1Q VLAN PVID Setting

Select	Port	PVID
<input type="checkbox"/>		<input type="text"/>
<input type="checkbox"/>	Port 1	1
<input type="checkbox"/>	Port 2	1
<input type="checkbox"/>	Port 3	20
<input type="checkbox"/>	Port 4	1
<input type="checkbox"/>	Port 5	1
<input type="checkbox"/>	Port 6	1
<input type="checkbox"/>	Port 7	1
<input type="checkbox"/>	Port 8	52

ApplyHelp

Note:  
1. PVID can only be configured on ports that are in the same VLAN.

TL-SG108E

System

Switching

Monitoring

VLAN

- MTU VLAN
- Port Based VLAN
- **802.1Q VLAN**
  - 802.1Q PVID Setting

QoS

Save Config

Logout

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802.1Q VLAN Configuration

802.1Q VLAN Configuration: ☒ Enable ☐ Disable Apply

VLAN ID	<input type="text" value=""/> (2-4094)	VLAN Name	<input type="text" value=""/>
Port	Untagged	Tagged	Not Member
Select All	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Port 1	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Port 2	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Port 3	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Port 4	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Port 5	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Port 6	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Port 7	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Port 8	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Add/ModifyHelp

VLAN ID	VLAN Name	Member Ports	Tagged Ports	Untagged Ports	Delete
1	Default_VLAN	1-8		1-8	<input type="checkbox"/>
20	vlan20	3,7	7	3	<input type="checkbox"/>
52	vlanTV	7-8	7	8	<input type="checkbox"/>

## IGMP Snooping :

**TL-SG108E**

System

Switching

• Port Setting

• **IGMP Snooping**

• Port Trunk

Monitoring

VLAN

QoS

Save Config

Logout

Copyright © 2016

### IGMP Snooping

IGMP Snooping: ☒ Enable ☐ Disable

Report Message ☒ Enable ☐ Disable

Suppression: ☒ Enable ☐ Disable

Apply

IP Address	VLAN ID	Ports
239.255.255.250	1	2,4,6-7
239.255.250.250	1	4,7
239.255.255.246	1	6-7
239.255.255.250	52	7-8
232.0.64.206	52	7-8
239.255.3.22	52	7-8

## 2-Création vlan52 (vlanTV : VLAN ID 52) sur switch manageable L3 cisco **SG250-08** :

**cisco SG250-08 8-Port Gigabit Smart Switch**

Getting Started  
Dashboard  
Configuration Wizards  
Search  
Status and Statistics  
Administration  
Port Management  
Smartport  
**VLAN Management**  
VLAN Settings  
Interface Settings  
Port to VLAN  
Port VLAN Membership  
GVRP Settings

### VLAN Settings

**VLAN Table**

<input type="checkbox"/>	VLAN ID	VLAN Name	Originators	VLAN Interface State	Link Status SNMP Traps
<input type="checkbox"/>	1		Default	Enabled	Enabled
<input type="checkbox"/>	20	vlan20	Static	Enabled	Enabled
<input type="checkbox"/>	52	vlanTV	Static	Enabled	Enabled
<input type="checkbox"/>	100	internet-iptv	Static	Enabled	Enabled

Add... Edit... Delete

**cisco SG250-08 8-Port Gigabit Smart Switch**

Getting Started  
Dashboard  
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Administration  
Port Management  
Smartport  
**VLAN Management**  
VLAN Settings  
Interface Settings  
Port to VLAN  
Port VLAN Membership  
GVRP Settings  
Voice VLAN  
Spanning Tree  
MAC Address Tables

### Interface Settings

Filter: Interface Type equals to Port Go

Entry No.	Interface	Switchport Mode	Interface VLAN Mode
1	GE1 (ONT WAN Vlan100)	Layer 2	Trunk
2	GE2 (WAN Vlan100 marque vers routeur)	Layer 2	Trunk
3	GE3 (LAN Vlan1 venant du routeur)	Layer 2	Trunk
4	GE4 (LAN Vlan1 vers Switch TL-SG108E Local technique)	Layer 2	Access
5	GE5 (LAN Vlan1 vers Switch TL-SG108E HIFI)	Layer 2	Trunk
6	GE6 (LAN Vlan1 vers Switch Etage)	Layer 2	Access
7	GE7 (LAN Vlan1 Philips HUE)	Layer 2	Access
8	GE8 (LAN Vlan1 Serveur SYNOLOGY Synolo)	Layer 2	Access

Copy Settings... Edit...

**cisco SG250-08 8-Port Gigabit Smart Switch**

Getting Started  
Dashboard  
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Port Management  
Smartport  
**VLAN Management**  
VLAN Settings  
Interface Settings  
Port to VLAN  
Port VLAN Membership  
Voice VLAN  
Spanning Tree  
MAC Address Tables  
Multicast  
IP Configuration

### Port to VLAN

Filter VLAN ID equals to 52 AND Interface Type equals to Port Go

Interface Name	VLAN Mode	Membership Type	PVID
GE1 (ONT WAN Vlan100)	Trunk	Excluded	<input type="checkbox"/>
GE2 (WAN Vlan100 marque vers routeur)	Trunk	Excluded	<input type="checkbox"/>
GE3 (LAN Vlan1 venant du routeur)	Trunk	Tagged	<input type="checkbox"/>
GE4 (LAN Vlan1 vers Switch TL-SG108E Local technique)	Trunk	Excluded	<input type="checkbox"/>
GE5 (LAN Vlan1 vers Switch TL-SG108E HIFI)	Trunk	Tagged	<input type="checkbox"/>
GE6 (LAN Vlan1 vers Switch Etage)	Access	Excluded	<input type="checkbox"/>
GE7 (LAN Vlan1 Philips HUE)	Access	Excluded	<input type="checkbox"/>
GE8 (LAN Vlan1 Serveur SYNOLOGY Synolo)	Access	Excluded	<input type="checkbox"/>

Apply Cancel

Getting Started

Dashboard

Configuration Wizards

Search

Status and Statistics

Administration

Port Management

Smartport

VLAN Management

Spanning Tree

MAC Address Tables

Multicast

Properties

MAC Group Address

IP Multicast Group Address

IPv4 Multicast Configuration

IGMP Snooping

IGMP VLAN Settings

IPv6 Multicast Configuration

Port VLAN Membership

F - Forbidden member

T - Tagged member

U - Untagged member

I - Inactive VLAN

P - PVID

In - Internally used VLAN

Port VLAN Membership Table

Filter: Interface Type equals to Port Go

Interface	Mode	Administrative VLANs	Operational VLANs
<input type="radio"/> GE1 (ONT WAN Vlan100)	Trunk	100T	100T
<input type="radio"/> GE2 (WAN Vlan100 marque vers routeur)	Trunk	100T	100T
<input type="radio"/> GE3 (LAN Vlan1 venant du routeur)	Trunk	1U, 20T, 52T	1U, 20T, 52T
<input type="radio"/> GE4 (LAN Vlan1 vers Switch TL-SG108E Local technique)	Access	1U	1U
<input type="radio"/> GE5 (LAN Vlan1 vers Switch TL-SG108E HIFI)	Trunk	1U, 20T, 52T	1U, 20T, 52T
<input type="radio"/> GE6 (LAN Vlan1 vers Switch Etage)	Access	1U	1U
<input type="radio"/> GE7 (LAN Vlan1 Philips HUE)	Access	1U	1U
<input type="radio"/> GE8 (LAN Vlan1 Serveur SYNOLOGY Synolo)	Access	1U	1U

Join VLAN...
Details...

## IGMP Snooping V2:

Getting Started

Dashboard

Configuration Wizards

Search

Status and Statistics

Administration

Port Management

Smartport

VLAN Management

Spanning Tree

MAC Address Tables

Multicast

Properties

MAC Group Address

IP Multicast Group Address

IPv4 Multicast Configuration

IGMP Snooping

IGMP VLAN Settings

IPv6 Multicast Configuration

IGMP Snooping

IGMP Snooping is only operational when Bridge Multicast Filtering is enabled. Bridge Multicast Filtering is currently enabled.

IGMP Snooping Status: ☒ Enable

IGMP Querier Status: ☒ Enable

Apply
Cancel
IGMP Snooping IP Multicast Group

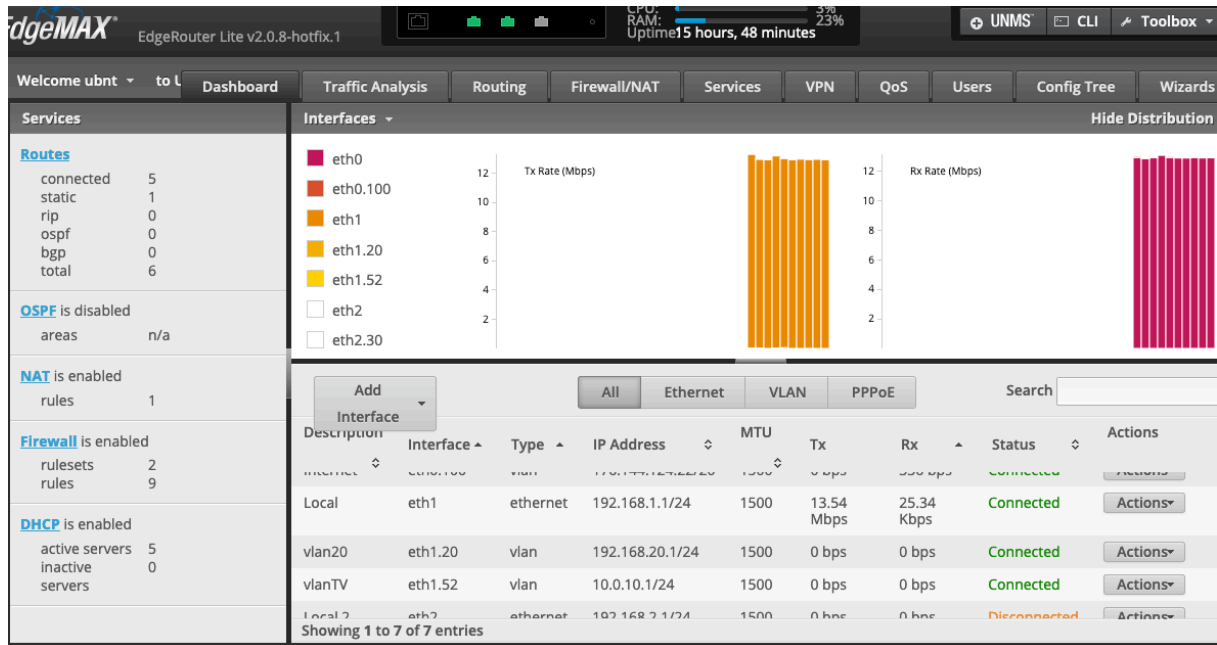
IGMP Snooping Table

	Entry No.	VLAN ID	IGMP Snooping Status		MRouter Ports Auto Learn	Immediate Leave	Last Member Query Counter	IGMP Querier S Administrative
			Administrative	Operational				
<input type="radio"/>	1	1	Enabled	Enabled	Enabled	Enabled	0	Enabled
<input type="radio"/>	2	20	Disabled	Disabled	Enabled	Disabled	0	Disabled
<input type="radio"/>	3	52	Enabled	Enabled	Enabled	Enabled	0	Enabled
<input type="radio"/>	4	100	Disabled	Disabled	Enabled	Disabled	0	Disabled

Copy Settings...
Edit...

### 3-Création vlan52 (vlanTV : eth1.52) sur EdgeRouter Erlite3:

cf. <https://blogwifi.fr/edgerouter-et-vlans/>



eth0 : WAN    eth0.100 vlan 100 Bouygues  
eth1 : LAN    eth1.52 : ipTV

```
ubnt@Ubnt:~$ show ip multicast mfc
```

Group	Origin	In	Out	Pkts	Bytes	Wrong
232.0.64.206	89.86.97.6	eth0.100	eth1.52	276	367.61KB	0