

# TP\_VXLAN

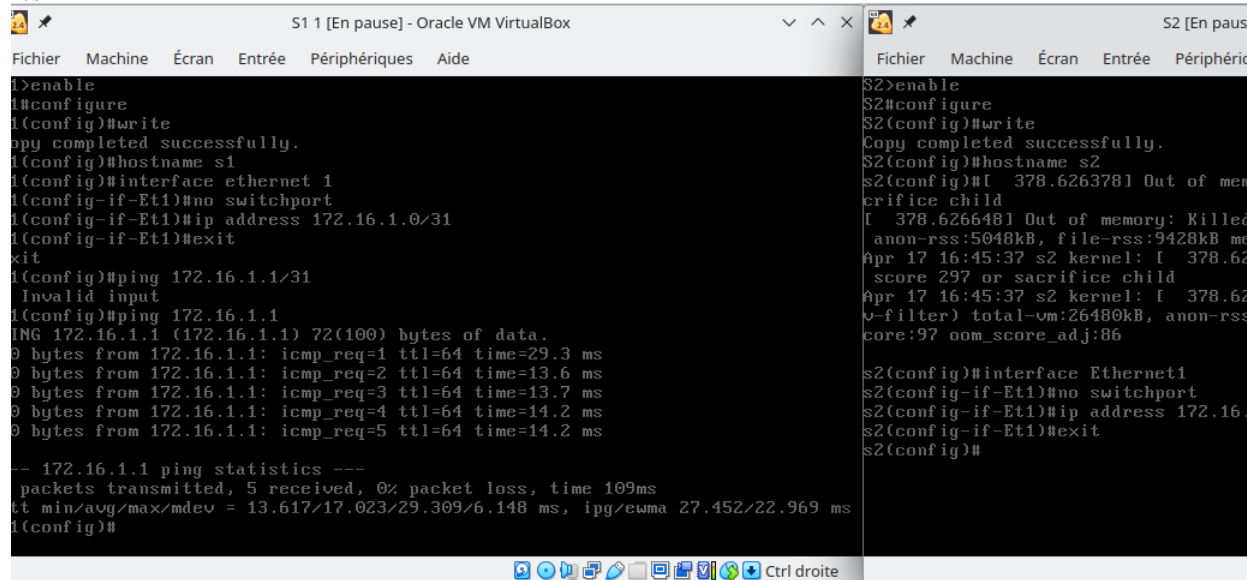
Night

April 2023

## 1 Intro - Configuration

### 1.1 3.1 - interconnexion S1/S2

On suit les jusqu'à la partie 3 les différentes étapes de configuration des machines:



The image shows two side-by-side terminal windows from Oracle VM VirtualBox. The left window is titled 'S1 1 [En pause] - Oracle VM VirtualBox' and the right window is titled 'S2 [En pause] - Oracle VM VirtualBox'. Both windows show a configuration process for a network switch. In the S1 window, the user enters 'enable', then 'configure', then 'write' (which completes successfully), then 'hostname s1', then 'interface ethernet 1', then 'no switchport', then 'ip address 172.16.1.0/31', then 'exit', and finally 'ping 172.16.1.1/31'. The ping command results in an 'Invalid input' error. The user then enters 'ping 172.16.1.1', which shows a successful ping to 172.16.1.1 with 72(100) bytes of data. The S2 window shows a similar configuration process, but it is partially obscured by a system message: '[ 378.626648] Out of memory: Killed process 378 (s2) (pid 378) total-vm:26480kB, anon-rss:5048kB, file-rss:9428kB, ...'. The S2 window also shows the configuration steps: 'enable', 'configure', 'write', 'hostname s2', 'interface ethernet 1', 'no switchport', 'ip address 172.16.1.0/31', and 'exit'.

On voit que le **ping** de S1 vers S2 fonctionne.

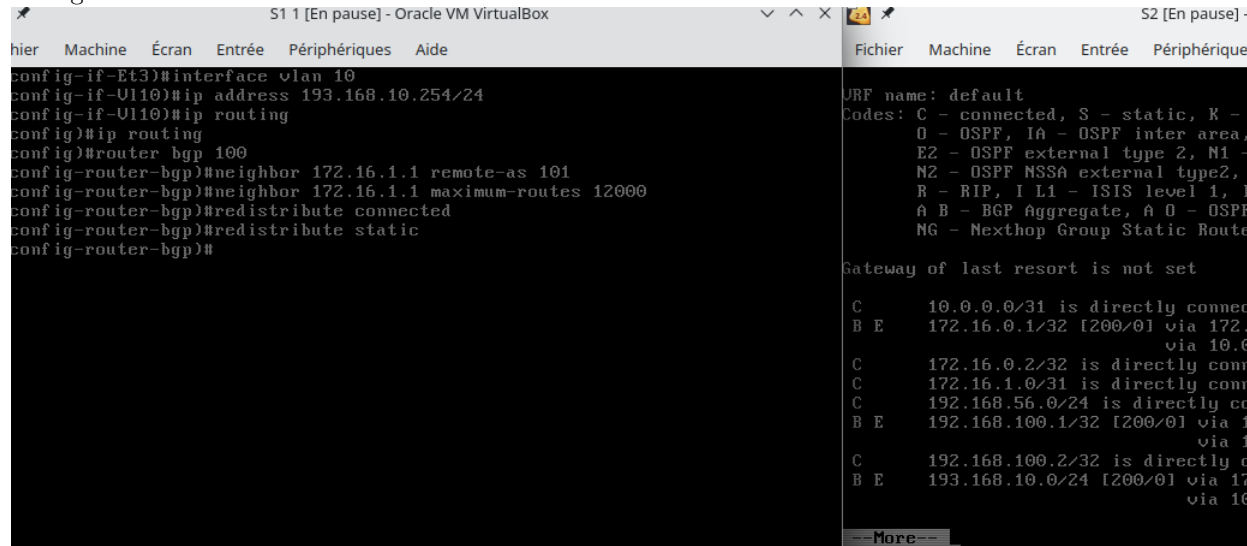
## 1.2 3.2 - vxlans

On configure eth1 sur S1:

```
? Command: show running-config
? device: s1 (vEOS, EOS-4.15.10M)
?
? boot system flash:/vEOS-lab.swi
?
transceiver qsfp default-mode 4x10G
?
hostname s1
?
spanning-tree mode mstp
?
aaa root secret 5 $1$31NsPK0C$9lgqtD1vQL0XGPmwPyBT61
?
username admin role network-admin secret 5 $1$zeWkpH/R$k0yG0h46yEQjirZTQ0AZC/
?
vlan 10
?
interface Ethernet1
  no switchport
  ip address 172.16.1.0/31
?
interface Ethernet2
  no switchport
  ip address 10.0.0.0/31
--More--
```

## 1.3 3.3 - switches

On configure les switches:



The screenshot shows two Oracle VM VirtualBox windows. The left window, titled 'S1 1 [En pause] - Oracle VM VirtualBox', displays the configuration of interface Ethernet1 on switch S1. The right window, titled 'S2 [En pause]', displays the configuration of interface Ethernet1 on switch S2. Both windows show the configuration of interface Ethernet1, including the IP address and the 'no switchport' command. The right window also shows the output of the 'show ip route' command, displaying the routing table for S2.

```
S1 1 [En pause] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
config-if-Et3)#interface vlan 10
config-if-U110)#ip address 193.168.10.254/24
config-if-U110)#ip routing
config)#ip routing
config)#router bgp 100
config-router-bgp)#neighbor 172.16.1.1 remote-as 101
config-router-bgp)#neighbor 172.16.1.1 maximum-routes 12000
config-router-bgp)#redistribute connected
config-router-bgp)#redistribute static
config-router-bgp)#

S2 [En pause]
Fichier Machine Écran Entrée Périphériques Aide
JRF name: default
Codes: C - connected, S - static, K -
0 - OSPF, IA - OSPF inter area,
E2 - OSPF external type 2, N1 -
N2 - OSPF NSSA external type2,
R - RIP, I L1 - ISIS level 1,
A B - BGP Aggregate, A O - OSPF
NG - Nexthop Group Static Route
Gateway of last resort is not set

C 10.0.0.0/31 is directly connec
B E 172.16.0.1/32 [200/0] via 172.
via 10.0.0.0/31
C 172.16.0.2/32 is directly conn
C 172.16.1.0/31 is directly conn
C 192.168.56.0/24 is directly co
B E 192.168.100.1/32 [200/0] via 1
via 10.0.0.0/31
C 192.168.100.2/32 is directly c
B E 193.168.10.0/24 [200/0] via 17
via 10.0.0.0/31
--More--
```

## 1.4 3.4 - Ajout hôtes