

- ¿Cuál es la interfaz que ha recibido el mayor número de octetos?

SO Centos Con ifInOctets vemos que interfaz tiene el mayor número de octetos en este caso es la 2, con ifDescr(2) vemos que la interfaz 2 es enpos3.

1

```
Linux [Corriendo] - Oracle VM VirtualBox
[root@localhost ~]# snmpwalk -v2c -c redes localhost 1.3.6.1.2.1.2.2.1.10
iso.3.6.1.2.1.2.2.1.10.1 = Counter32: 581
iso.3.6.1.2.1.2.2.1.10.2 = Counter32: 1377888
[root@localhost ~]# snmpget -v2c -c redes localhost 1.3.6.1.2.1.2.2.1.2.2
iso.3.6.1.2.1.2.2.1.2.2 = STRING: "enp8s3"
[root@localhost ~]#
```

Figura 1: El OID para ver los Octetos es 1.3.6.1.2.1.2.2.1.10

SO Windows Con snmpwalk podemos visualizar la tabla de las 26 interfaces con las que cuenta el so Windows y con la OID 1.3.6.1.2.1.2.2.1.10 (ifInOctets) se observan los octetos de cada una.

2

```
C:\Users\arturo>snmpwalk -v2c -c ComunidadWindows localhost 1.3.6.1.2.1.2.2.1.10
IP-MIB::ifInOctets.1 = Counter32: 0
IP-MIB::ifInOctets.2 = Counter32: 0
IP-MIB::ifInOctets.3 = Counter32: 0
IP-MIB::ifInOctets.4 = Counter32: 49243874
IP-MIB::ifInOctets.5 = Counter32: 0
IP-MIB::ifInOctets.6 = Counter32: 0
IP-MIB::ifInOctets.7 = Counter32: 0
IP-MIB::ifInOctets.8 = Counter32: 0
IP-MIB::ifInOctets.9 = Counter32: 0
IP-MIB::ifInOctets.10 = Counter32: 0
IP-MIB::ifInOctets.11 = Counter32: 0
IP-MIB::ifInOctets.12 = Counter32: 0
IP-MIB::ifInOctets.13 = Counter32: 0
IP-MIB::ifInOctets.14 = Counter32: 0
IP-MIB::ifInOctets.15 = Counter32: 0
IP-MIB::ifInOctets.16 = Counter32: 0
IP-MIB::ifInOctets.17 = Counter32: 0
IP-MIB::ifInOctets.18 = Counter32: 0
IP-MIB::ifInOctets.19 = Counter32: 0
IP-MIB::ifInOctets.20 = Counter32: 0
IP-MIB::ifInOctets.21 = Counter32: 49243874
IP-MIB::ifInOctets.22 = Counter32: 49243874
IP-MIB::ifInOctets.23 = Counter32: 49243874
IP-MIB::ifInOctets.24 = Counter32: 49243874
IP-MIB::ifInOctets.25 = Counter32: 49243874
IP-MIB::ifInOctets.26 = Counter32: 49243874
IP-MIB::ifInOctets.27 = Counter32: 0
IP-MIB::ifInOctets.28 = Counter32: 0
IP-MIB::ifInOctets.29 = Counter32: 0
IP-MIB::ifInOctets.30 = Counter32: 0
IP-MIB::ifInOctets.31 = Counter32: 0
IP-MIB::ifInOctets.32 = Counter32: 0
IP-MIB::ifInOctets.33 = Counter32: 0
IP-MIB::ifInOctets.34 = Counter32: 0
IP-MIB::ifInOctets.35 = Counter32: 0
IP-MIB::ifInOctets.36 = Counter32: 0
```

Figura 2: tabla de las interfaces en Windows con sus Octetos

Tenemos 7 interfaces que cuentan con la misma cantidad de octetos (.4, .21, .22, .23, .24, .25, .26) y podemos ver que esas interfaces son:

3

```
C:\Users\arturo>snmpget -v2c -c ComunidadWindows localhost 1.3.6.1.2.1.2.2.1.2.4
IP-MIB::ifDescr.4 = STRING: Qualcomm Atheros AR956x Wireless Network Adapter
C:\Users\arturo>snmpget -v2c -c ComunidadWindows localhost 1.3.6.1.2.1.2.2.1.2.21
IP-MIB::ifDescr.21 = STRING: Qualcomm Atheros AR956x Wireless Network Adapter-WiFi Native MAC Layer Lightweight Filter-0000
C:\Users\arturo>snmpget -v2c -c ComunidadWindows localhost 1.3.6.1.2.1.2.2.1.2.22
IP-MIB::ifDescr.22 = STRING: Qualcomm Atheros AR956x Wireless Network Adapter-Virtual WiFi Filter Driver-0000
C:\Users\arturo>snmpget -v2c -c ComunidadWindows localhost 1.3.6.1.2.1.2.2.1.2.23
IP-MIB::ifDescr.23 = STRING: Qualcomm Atheros AR956x Wireless Network Adapter-Native WiFi Filter Driver-0000
C:\Users\arturo>snmpget -v2c -c ComunidadWindows localhost 1.3.6.1.2.1.2.2.1.2.25
IP-MIB::ifDescr.25 = STRING: Qualcomm Atheros AR956x Wireless Network Adapter-QoS Packet Scheduler-0000
C:\Users\arturo>snmpget -v2c -c ComunidadWindows localhost 1.3.6.1.2.1.2.2.1.2.26
IP-MIB::ifDescr.26 = STRING: Qualcomm Atheros AR956x Wireless Network Adapter-WiFi 802.3 MAC Layer Lightweight Filter-0000
C:\Users\arturo>
```

Figura 3: Interfaces

- Indica el número de octetos de la interfaz que ha recibido el mayor número de octetos

SO Centos enpos3 cuenta con 73986 octetos ifInOctets (OID 1.3.6.1.2.1.2.2.1.10.2) el cuál es **73986**.

4

```

root@localhost ~# snmpget -v2c -c redes localhost 1.3.6.1.2.1.2.2.1.10.1
iso.3.6.1.2.1.2.2.1.10.1 = Counter32: 31431
root@localhost ~# snmpget -v2c -c redes localhost 1.3.6.1.2.1.2.2.1.10.2
iso.3.6.1.2.1.2.2.1.10.2 = Counter32: 73986
root@localhost ~# snmpget -v2c -c redes localhost 1.3.6.1.2.1.2.2.1.2.2
iso.3.6.1.2.1.2.2.1.2.2 = STRING: "enp0s3"
root@localhost ~# _

```

Figura 4: Octetos en enp0s3

SO Windows El número de octetos que han recibido las 7 interfaces por igual es **49243874**.

5

```

C:\Users\arturo>snmpwalk -v2c -c ComunidadWindows localhost 1.3.6.1.2.1.2.2.1.10
IF-MIB::ifInOctets.1 = Counter32: 0
IF-MIB::ifInOctets.2 = Counter32: 0
IF-MIB::ifInOctets.3 = Counter32: 0
IF-MIB::ifInOctets.4 = Counter32: 49243874
IF-MIB::ifInOctets.5 = Counter32: 0
IF-MIB::ifInOctets.6 = Counter32: 0
IF-MIB::ifInOctets.7 = Counter32: 0
IF-MIB::ifInOctets.8 = Counter32: 0
IF-MIB::ifInOctets.9 = Counter32: 0
IF-MIB::ifInOctets.10 = Counter32: 0
IF-MIB::ifInOctets.11 = Counter32: 0
IF-MIB::ifInOctets.12 = Counter32: 0
IF-MIB::ifInOctets.13 = Counter32: 0
IF-MIB::ifInOctets.14 = Counter32: 0
IF-MIB::ifInOctets.15 = Counter32: 0
IF-MIB::ifInOctets.16 = Counter32: 0
IF-MIB::ifInOctets.17 = Counter32: 0
IF-MIB::ifInOctets.18 = Counter32: 0
IF-MIB::ifInOctets.19 = Counter32: 0
IF-MIB::ifInOctets.20 = Counter32: 0
IF-MIB::ifInOctets.21 = Counter32: 49243874
IF-MIB::ifInOctets.22 = Counter32: 49243874
IF-MIB::ifInOctets.23 = Counter32: 49243874
IF-MIB::ifInOctets.24 = Counter32: 49243874
IF-MIB::ifInOctets.25 = Counter32: 49243874
IF-MIB::ifInOctets.26 = Counter32: 49243874
IF-MIB::ifInOctets.27 = Counter32: 0
IF-MIB::ifInOctets.28 = Counter32: 0
IF-MIB::ifInOctets.29 = Counter32: 0
IF-MIB::ifInOctets.30 = Counter32: 0
IF-MIB::ifInOctets.31 = Counter32: 0
IF-MIB::ifInOctets.32 = Counter32: 0
IF-MIB::ifInOctets.33 = Counter32: 0
IF-MIB::ifInOctets.34 = Counter32: 0
IF-MIB::ifInOctets.35 = Counter32: 0
IF-MIB::ifInOctets.36 = Counter32: 0

```

Figura 5: Octetos en Windows

- ¿Cuál es la MAC de esa interfaz?

SO Centos Con ifphysAddress (OID 1.3.6.1.2.1.2.2.1.6.2)podemos visualizar le Mac de enpos3 **8:0:27:91:60:40**.

6

```

root@localhost ~# snmpget -v2c -c redes localhost 1.3.6.1.2.1.2.2.1.2.2
iso.3.6.1.2.1.2.2.1.2.2 = STRING: "enp0s3"
root@localhost ~# snmpget -v2c -c redes localhost 1.3.6.1.2.1.2.2.1.6.2
iso.3.6.1.2.1.2.2.1.6.2 = Hex-STRING: 08 00 27 91 60 40
root@localhost ~#

```

Figura 6: Dirección Mac de Enp0s3

SO Windows Con ifPhysAddress se puede observar que las 7 interfaces que tiene el número igualitario de octetos cuentan con la misma dirección Mac, para esto nos apoyamos del comando snmpwalk para poder visualizar en forma de lista las diferentes direcciones de cada interfaz con la que cuenta Windows. (OID 1.3.6.1.2.1.2.2.1.6) Mac **18:4f:32:38:2a:3d**.

7

```

C:\Users\arturo>arpwalk -v2c -c Comunidad\Windows localhost 1.3.6.1.2.1.2.2.1.6
IF-MIB::ifPhysAddress.1 = STRING:
IF-MIB::ifPhysAddress.2 = STRING:
IF-MIB::ifPhysAddress.3 = STRING: 2c:60:c:ea:a0:a4
IF-MIB::ifPhysAddress.4 = STRING: 10:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.5 = STRING: 1a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.6 = STRING: 10:4f:32:30:2a:3e
IF-MIB::ifPhysAddress.7 = STRING:
IF-MIB::ifPhysAddress.8 = STRING: 4a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.9 = STRING: 00:00:00:00:00:e0
IF-MIB::ifPhysAddress.10 = STRING: 00:00:00:00:00:e0
IF-MIB::ifPhysAddress.11 = STRING: 00:00:00:00:00:e0
IF-MIB::ifPhysAddress.12 = STRING: a0:27:00:0c
IF-MIB::ifPhysAddress.13 = STRING: 00:00:00:00:00:e0
IF-MIB::ifPhysAddress.14 = STRING: a0:27:00:0c
IF-MIB::ifPhysAddress.15 = STRING: a0:27:00:0c
IF-MIB::ifPhysAddress.16 = STRING: a0:27:00:0c
IF-MIB::ifPhysAddress.17 = STRING: 2c:60:c:ea:a8:a4
IF-MIB::ifPhysAddress.18 = STRING: 2c:60:c:ea:a8:a4
IF-MIB::ifPhysAddress.19 = STRING: 2c:60:c:ea:a8:a4
IF-MIB::ifPhysAddress.20 = STRING: 2c:60:c:ea:a8:a4
IF-MIB::ifPhysAddress.21 = STRING: 10:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.22 = STRING: 10:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.23 = STRING: 10:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.24 = STRING: 10:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.25 = STRING: 10:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.26 = STRING: 10:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.27 = STRING: 1a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.28 = STRING: 4a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.29 = STRING: 1a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.30 = STRING: 1a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.31 = STRING: 4a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.32 = STRING: 4a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.33 = STRING: 4a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.34 = STRING: 1a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.35 = STRING: 1a:4f:32:30:2a:3d
IF-MIB::ifPhysAddress.36 = STRING: 1a:4f:32:30:2a:3d

```

Figura 7: Tabla de direcciones Mac en Windows