UNIVERSIDAD CENTRAL DEL ECUADOR

FACULTAD DE FILOSOFÍA, LETRAS Y CIENCIAS DE LA EDUCACIÓN PEDAGOGÍA DE LAS CIENCIAS EXPERIMENTALES INFORMÁTICA

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Trabajo en Windows

Dirección IP	192.168.56.1
ID de red	Toby
ID de host	Gregory
Máscara de Red	255.255.255.0
Indique si la IP es clase A, B, C, etc.	С
Indique si la IP es pública o privada y por qué	Privada
Indique si la IP está configurada estáticamente o dinámicamente y por qué	Dinámica
Indique si la máscara de red es por defecto o especial	Defecto
Dirección de Difusión (broadcast)	192.168.0.255

Dirección IP de puerta de enlace (Gateway)	192.168.0.1		
Dirección IP de Servidor de Nombres DNS primario	192.168.0.1		
Dirección IP del servidor de Nombres DNS secundario	192.168.0.1		
Dirección física MAC	24-4B-FE-8D-3D-B5		
Tiempo de vida (TTL) a la puerta de enlace	64		
Tiempo de vida (TTL) a <u>www.google.com</u>	TTL=111		
Traza (traceroute) a <u>www.google.com</u>	C:\Users\Gregory Cedeño>tracert www.google.com Traza a la dirección www.google.com [142.250.78,100] sobre un máximo de 30 saltos: 1 <1 ms <1 ms <1 ms 192.168.0.1 2 <1 ms <1 ms <1 ms 192.168.0.1 3 3 ms 2 ms 3 ms 100.96.239.1 4 7 ms 3 ms 3 ms 18.201.194.33 5 7 ms 4 ms 3 ms 10.201.194.73 6 2 ms 4 ms 1 ms 10.201.194.73 6 2 ms 4 ms 1 ms 10.201.194.9 7 2 ms 2 ms 2 ms 10.201.222.13 8 5 ms 7 ms 7 ms 10.201.222.29 9 17 ms 17 ms 17 ms 142.250.163.95 10 19 ms 19 ms 19 ms 19 ms 172.253.51.19 11 17 ms 17 ms 17 ms 142.250.210.145 12 17 ms 17 ms 17 ms bog02s17-in-f4.1e100.net [142.250.78.100] Traza completa.		
Puertos que tiene abiertos su máquina	192.168.1.1 – 192.168.0.255		

Ejercicio en UBUNTU

```
ubuntu@ubuntu:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
       inet6 fe80::12c9:a25:f720:a9fc prefixlen 64 scopeid 0x20<link>
       ether 08:00:27:c9:d3:ab txqueuelen 1000 (Ethernet)
       RX packets 3693 bytes 4885805 (4.8 MB)
       RX errors 0 dropped 0 overruns 0 frame 0 TX packets 2507 bytes 167533 (167.5 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
       inet 127.0.0.1 netmask 255.0.0.0
       inet6 :: 1 prefixlen 128 scopeid 0x10<host>
       loop txqueuelen 1000 (Local Loopback)
       RX packets 191 bytes 16342 (16.3 KB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 191 bytes 16342 (16.3 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Cancel			Wire	d	Apply
Details	Identity	IPv4	IPv6	Security	
Ĺ	ink speed	1000 Mb/s			
IPV	4 Address	10.0.2.15			
IPv	6 Address	fe80::12c9:a	25:f720:a	9fc	
Hardwar	e Address	08:00:27:C9	:D3:AB		
Defa	oult Route	10.0.2.2			
	DNS	192.168.0.1			
Conn	ect automat	ically			
Make	available to	other user	5		
				r can incur charges will not be started automal	tically.
				9	

Remove Connection Profile

Dirección IP	10.0.2.15
ID de red	Toby
ID de host	Ubuntu
Máscara de Red	255.255.255.0
Indique si la IP es clase A, B, C, etc.	A
Indique si la IP es pública o privada y por qué	Privada
Indique si la IP está configurada estáticamente o dinámicamente y por qué	Dinámica
Indique si la máscara de red es por defecto o especial	Defecto
Dirección de Difusión (broadcast)	10.0.2.255

Dirección IP de puerta de	192.168.0.1	
enlace (Gateway)		
Dirección IP de Servidor de Nombres DNS primario	192.168.0.1	
Dirección IP del servidor de Nombres DNS secundario	192.168.0.1	
Dirección física MAC	08:00:27:C9:D3:AB	
Tiempo de vida (TTL) a la puerta de enlace	0.685 MS	
Tiempo de vida (TTL) a <u>www.google.com</u>	TTL=18	
Traza (traceroute)	Unknown Option www.google.com	
a <u>www.google.com</u>	usage: tracer [-T tracefile] [-O outfile] [full] where: 	
	-T file = Use "file" as Trace File -O file = Use "file" as Additional Output File -B nbytes = Set Trace Buffer Size to nbytes full = Set Tracing Option to Full time = Set Tracing Option to Timing count = Set Tracing Option to Count -H/h = Print This Help Information -e = Dump Raw PVM Event Text -v = Verbose Operation	
Puertos que tiene abiertos	192.168.1.1 – 192.168.0.255	

Ejercicio con NMAP UBUNTU

```
gregory@gregory-VirtualBox:~$ nmap 192.168.0.1
Starting Nmap 7.80 ( https://nmap.org ) at 2021-07-06 23:08 -05
Nmap scan report for 192.168.0.1
Host is up (0.0042s latency).
Not shown: 995 filtered ports
PORT STATE SERVICE
22/tcp open ssh
53/tcp open domain
80/tcp open http
1900/tcp open upnp
49152/tcp open unknown

Nmap done: 1 IP address (1 host up) scanned in 4.59 seconds
gregory@gregory-VirtualBox:~$ nmap 10.0.2.15
Starting Nmap 7.80 ( https://nmap.org ) at 2021-07-06 23:08 -05
Nmap scan report for gregory-VirtualBox (10.0.2.15)
Host is up (0.000045s latency).
All 1000 scanned ports on gregory-VirtualBox (10.0.2.15) are closed
Nmap done: 1 IP address (1 host up) scanned in 0.05 seconds
```

```
gregory@gregory-VirtualBox: $ nmap -A -v 10.0.2.15
Starting Nmap 7.80 ( https://nmap.org ) at 2021-07-06 23:13 -05
NSE: Loaded 151 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 23:13
Completed NSE at 23:13, 0.00s elapsed
Initiating NSE at 23:13
Completed NSE at 23:13, 0.00s elapsed
Initiating NSE at 23:13
Completed NSE at 23:13, 0.00s elapsed
Initiating Ping Scan at 23:13
Scanning 10.0.2.15 [2 ports]
Completed Ping Scan at 23:13, 0.00s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 23:13
Completed Parallel DNS resolution of 1 host. at 23:13, 0.01s elapsed
Initiating Connect Scan at 23:13
Scanning gregory-VirtualBox (10.0.2.15) [1000 ports]
Completed Connect Scan at 23:13, 0.01s elapsed (1000 total ports)
Initiating Service scan at 23:13
NSE: Script scanning 10.0.2.15.
Initiating NSE at 23:13
Completed NSE at 23:13, 0.00s elapsed
Initiating NSE at 23:13
Completed NSE at 23:13, 0.00s elapsed
Initiating NSE at 23:13
Completed NSE at 23:13, 0.00s elapsed
Nmap scan report for gregory-VirtualBox (10.0.2.15)
Host is up (0.000053s latency).
All 1000 scanned ports on gregory-VirtualBox (10.0.2.15) are closed
```

```
NSE: Script Post-scanning.
Initiating NSE at 23:13
Completed NSE at 23:13, 0.00s elapsed
Initiating NSE at 23:13
Completed NSE at 23:13
Completed NSE at 23:13, 0.00s elapsed
Initiating NSE at 23:13
Completed NSE at 23:13
Completed NSE at 23:13, 0.00s elapsed
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 0.45 seconds
```