

Desde la máquina virtual de Windows 7, averigüe, mediante comandos, las siguientes cuestiones, sin olvidar concretar las respuestas que nos aporten tales comandos.

1. La dirección(es) IP(s) asociada(s) a www.google.es usando el comando: **nslookup**

```
C:\Users\mgwtf>nslookup www.google.es
Servidor: smoothwall
Address: 192.168.26.250

Respuesta no autoritativa:
Nombre: forcesafesearch.google.com
Addresses: 2001:4860:4802:32::78
           216.239.38.120
Aliases: www.google.es
```

2. Averigüe el nombre de dominio asociado a la IP 162.117.136.61

ES EL DE GOOGLE, EL NSLOOKUP POR IP NO ME RESUELVE

3. Averigüe las direcciones IP asociadas a www.google.es preguntando al servidor DNS 8.8.4.4

```
C:\Users\mgwtf>nslookup www.google.es 8.8.4.4
Servidor: dns.google
Address: 8.8.4.4

Respuesta no autoritativa:
Nombre: www.google.es
Addresses: 2a00:1450:4003:806::2003
           142.250.200.131
```

4. Averigüe las direcciones IP asociadas a www.google.es preguntando al servidor DNS ns1.google.com

```
C:\Users\mgwtf>nslookup www.google.es ns1.google.com
Servidor:  ns1.google.com
Address:  216.239.32.10

Nombre:  www.google.es
Addresses:  2a00:1450:4003:804::2003
           142.251.140.227
```

Desde la máquina virtual de Linux, averigüe, mediante comandos, las siguientes cuestiones, sin olvidar concretar las respuestas que nos aporten tales comandos.

5. La dirección IP asociada a www.madrid.org usando el comando: *nslookup*

```
manolito@manolito-VirtualBox:~$ nslookup www.madrid.org
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
www.madrid.org canonical name = d3omk6xn5p4d3d.cloudfront.net.
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 18.172.226.11
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 18.172.226.116
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 18.172.226.10
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 18.172.226.112
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 2600:9000:2570:c200:1a:83ee:1240:93a1
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 2600:9000:2570:b000:1a:83ee:1240:93a1
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 2600:9000:2570:8e00:1a:83ee:1240:93a1
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 2600:9000:2570:c00:1a:83ee:1240:93a1
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 2600:9000:2570:7200:1a:83ee:1240:93a1
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 2600:9000:2570:b400:1a:83ee:1240:93a1
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 2600:9000:2570:d600:1a:83ee:1240:93a1
Name:  d3omk6xn5p4d3d.cloudfront.net
Address: 2600:9000:2570:3000:1a:83ee:1240:93a1
```

6. La dirección IP asociada a www.madrid.org usando el comando: *dig*

```
manolito@manolito-VirtualBox:~$ dig www.madrid.org

; <>> DiG 9.18.39-0ubuntu0.24.04.2-Ubuntu <>> www.madrid.org
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NOERROR, id: 19277
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;www.madrid.org.           IN      A

;; ANSWER SECTION:
www.madrid.org.      59      IN      CNAME   d3omk6xn5p4d3d.cloudfront.net.
d3omk6xn5p4d3d.cloudfront.net. 60 IN      A       18.172.226.11
d3omk6xn5p4d3d.cloudfront.net. 60 IN      A       18.172.226.10
d3omk6xn5p4d3d.cloudfront.net. 60 IN      A       18.172.226.112
d3omk6xn5p4d3d.cloudfront.net. 60 IN      A       18.172.226.116

;; Query time: 109 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Mon Nov 10 10:35:49 CET 2025
;; MSG SIZE rcvd: 150
```

7. Averigüe el nombre de dominio asociado a la IP 162.117.136.61 usando el comando: *dig*

```
manolito@manolito-VirtualBox:~$ dig 162.117.136.61
;; communications error to 127.0.0.53#53: timed out

; <>> DiG 9.18.39-0ubuntu0.24.04.2-Ubuntu <>> 162.117.136.61
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NXDOMAIN, id: 47344
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;162.117.136.61.           IN      A

;; AUTHORITY SECTION:
.          86303  IN      SOA    a.root-servers.net. ns1.root-servers.net. 2025111000 1800 900 604800 86400

;; Query time: 291 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Mon Nov 10 10:36:46 CET 2025
;; MSG SIZE rcvd: 118
```

8. Averigüe las direcciones IP asociadas a www.madrid.org preguntando al servidor DNS

8.8.4.4, usando el comando: dig

```
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 33378
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 65494
;; QUESTION SECTION:
;www.madrid.org.           IN      A

;; ANSWER SECTION:
www.madrid.org.        1524    IN      CNAME   d3omk6xn5p4d3d.cloudfront.net.
d3omk6xn5p4d3d.cloudfront.net. 60 IN      A       18.172.226.10
d3omk6xn5p4d3d.cloudfront.net. 60 IN      A       18.172.226.112
d3omk6xn5p4d3d.cloudfront.net. 60 IN      A       18.172.226.116
d3omk6xn5p4d3d.cloudfront.net. 60 IN      A       18.172.226.11

;; Query time: 262 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Mon Nov 10 10:39:03 CET 2025
;; MSG SIZE rcvd: 150

;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NXDOMAIN, id: 1909
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 65494
;; QUESTION SECTION:
;8.8.4.4.                 IN      A

;; AUTHORITY SECTION:
.          86304    IN      SOA    a.root-servers.net. nstld.verisign-grs.com. 202511000 1800 900 604800 86400

;; Query time: 68 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Mon Nov 10 10:39:03 CET 2025
;; MSG SIZE rcvd: 111
```