Práctica 10

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nslookup

1. Run nslookup to obtain the IP address of a Web server


```
Símbolo del sistema

Microsoft Windows [Versión 10.0.18363.1256]
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C:\Users\guill>nslookup instagram.com
Servidor:  250.red-80-58-61.staticip.rima-tde.net
Address:  80.58.61.250

Respuesta no autoritativa:
Nombre:  instagram.com
Addresses:  2406:da00:ff00::3da:38f
          2406:da00:ff00::3447:df22
          2406:da00:ff00::22e2:90be
          2406:da00:ff00::3d5:938f
          2406:da00:ff00::22eb:b4a2
          2406:da00:ff00::3d6:d12e
          2406:da00:ff00::22e4:5dc8
          2406:da00:ff00::3400:b2c3
          52.0.37.128
          52.2.150.28
          54.85.141.180
          54.156.178.64
          3.228.78.219
          52.200.201.185
          34.206.62.254
          52.0.178.195
```

2. Run nslookup to determinate the authoritative DNS servers for a university in Europe

```
C:\Users\guill>nslookup www.unileon.es
Servidor:  250.red-80-58-61.staticip.rima-tde.net
Address:   80.58.61.250

Respuesta no autoritativa:
Nombre:  www.unileon.es
Address:   193.146.99.94


C:\Users\guill>nslookup -type=NS unileon.es
Servidor:  250.red-80-58-61.staticip.rima-tde.net
Address:   80.58.61.250

Respuesta no autoritativa:
unileon.es        nameserver = sun.rediris.es
unileon.es        nameserver = ns1.unileon.es
unileon.es        nameserver = ns2.unileon.es
unileon.es        nameserver = chico.rediris.es

sun.rediris.es   internet address = 199.184.182.1
sun.rediris.es   AAAA IPv6 address = 2620:171:808::1
chico.rediris.es         internet address = 162.219.54.2
chico.rediris.es         AAAA IPv6 address = 2620:10a:80eb::2
```

3. Run nslookup so that one of the DNS servers obtained in Question 2 is queried for a a website of its domain. Obtain the IP address of the mail servers for usal.es

```
C:\Users\guill>nslookup -type=NS ns1.unileon.es
Servidor:  250.red-80-58-61.staticip.rima-tde.net
Address:   80.58.61.250

unileon.es
        primary name server = ns1.unileon.es
        responsible mail addr = root.ns1.unileon.es
        serial   = 2020112701
        refresh = 7200 (2 hours)
        retry    = 7200 (2 hours)
        expire   = 2419200 (28 days)
        default TTL = 7200 (2 hours)
```

```
C:\Users\guill>nslookup -type=NS topacio.usal.es
Servidor:  250.red-80-58-61.staticip.rima-tde.net
Address:   80.58.61.250

usal.es
        primary name server = topacio.usal.es
        responsible mail addr = red.usal.es
        serial   = 2018113937
        refresh = 14400 (4 hours)
        retry    = 1800 (30 mins)
        expire   = 1209600 (14 days)
        default TTL = 3600 (1 hour)
```

```
C:\Users\guill>nslookup -type=NS zafiro.usal.es
DNS request timed out.
    timeout was 2 seconds.
Servidor:  UnKnown
Address:  80.58.61.250

usal.es
        primary name server = topacio.usal.es
        responsible mail addr = red.usal.es
        serial  = 2018113937
        refresh = 14400 (4 hours)
        retry   = 1800 (30 mins)
        expire  = 1209600 (14 days)
        default TTL = 3600 (1 hour)
```

Ipconfig

1. Visit different webpages of University of Leon and check your dns cache

```
Nombre de registro   . : ns2.unileon.es
Tipo de registro   . . : 1
Período de vida . . . : 77610
Longitud de datos . . : 4
Sección . . . . . . . : adicional
Un registro (host). . : 193.146.96.3


www.unileon.es
----------------------------------------
Nombre de registro   . : www.unileon.es
Tipo de registro   . . : 1
Período de vida . . . : 86392
Longitud de datos . . : 4
Sección . . . . . . . : respuesta
Un registro (host). . : 193.146.99.94
```