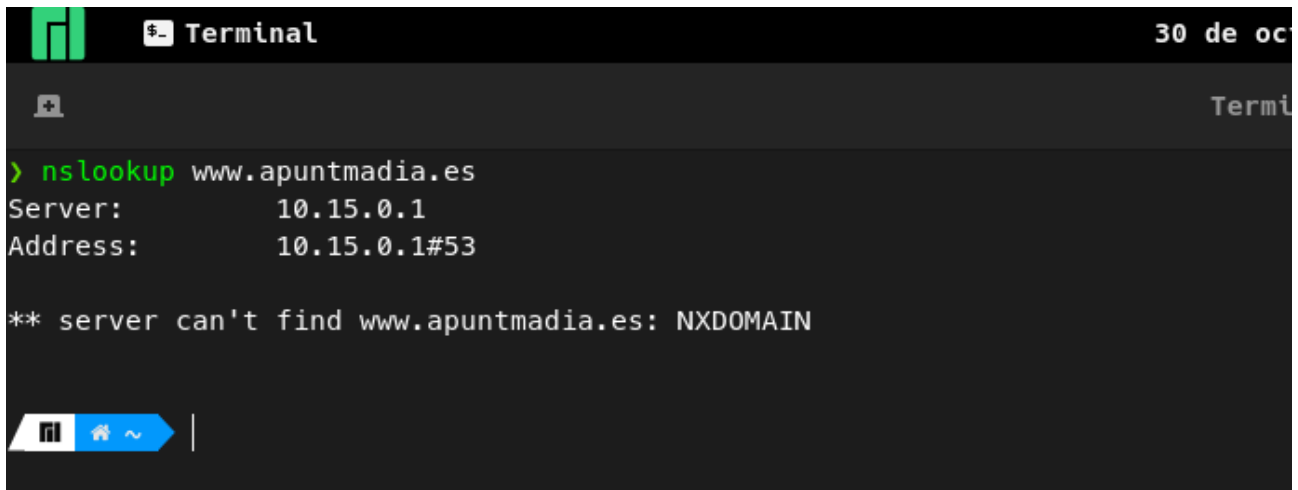


3.- Ejercicios con nslookup.

Los siguientes ejercicios se realizarán utilizando nslookup desde un equipo (MV) con linux y conectividad a Internet.

Ejercicio 3.1 Obtén la dirección IP de los siguientes dominios:

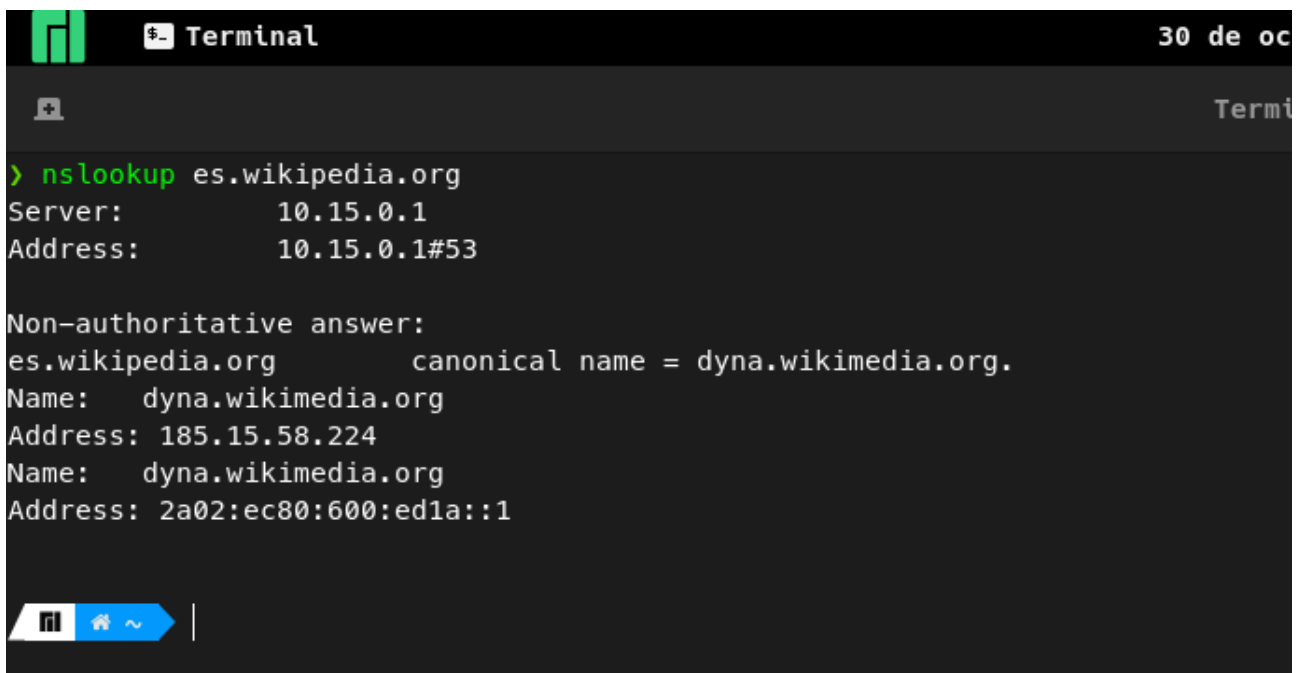
a) www.apuntmadia.es

A terminal window titled "Terminal" with a date "30 de oct" in the top right corner. The terminal shows the command "nslookup www.apuntmadia.es" being executed. The output displays "Server: 10.15.0.1" and "Address: 10.15.0.1#53". Below this, it states "** server can't find www.apuntmadia.es: NXDOMAIN". The terminal has a dark background with green and white text. At the bottom, there is a status bar with icons for a window, a home button, and a tilde symbol.

```
> nslookup www.apuntmadia.es
Server:      10.15.0.1
Address:     10.15.0.1#53

** server can't find www.apuntmadia.es: NXDOMAIN
```

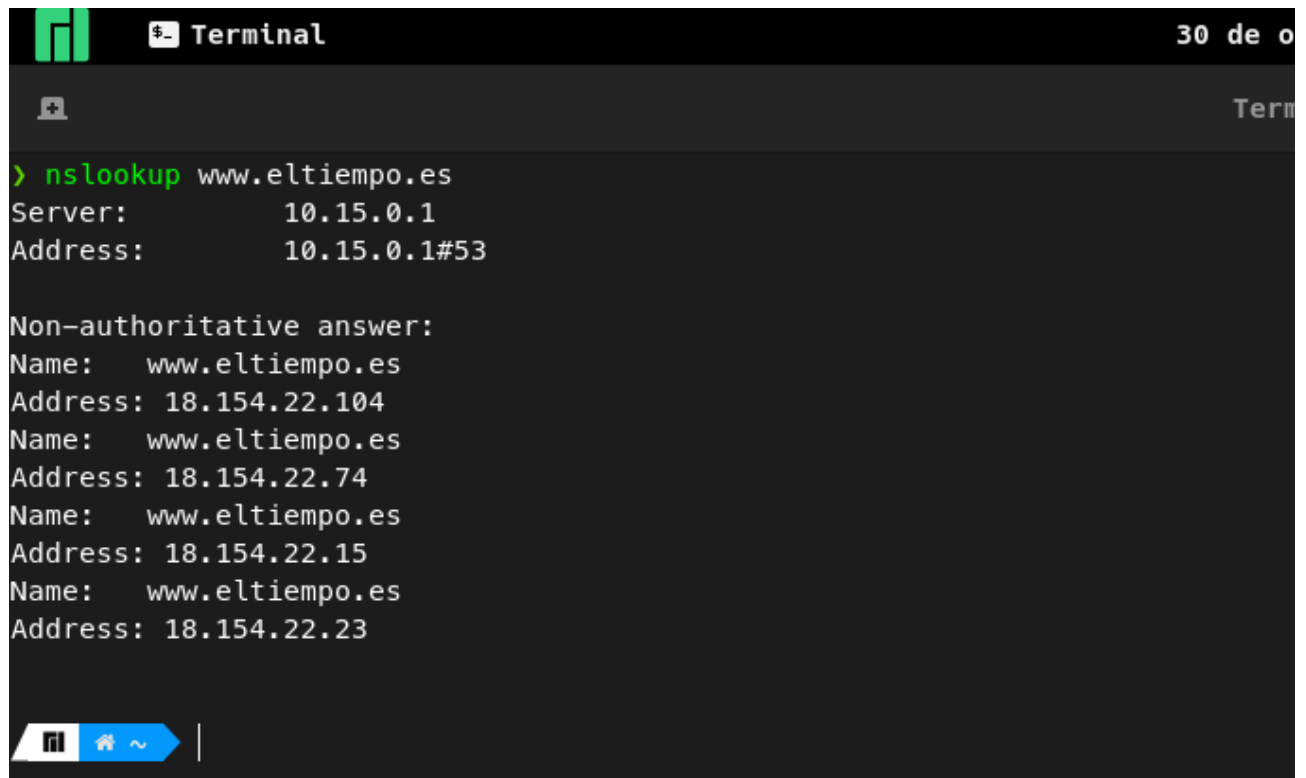
d) es.wikipedia.org

A terminal window titled "Terminal" with a date "30 de oct" in the top right corner. The terminal shows the command "nslookup es.wikipedia.org" being executed. The output displays "Server: 10.15.0.1" and "Address: 10.15.0.1#53". Below this, it states "Non-authoritative answer:" followed by "es.wikipedia.org canonical name = dyna.wikimedia.org.". Then it shows "Name: dyna.wikimedia.org", "Address: 185.15.58.224", "Name: dyna.wikimedia.org", and "Address: 2a02:ec80:600:ed1a::1". The terminal has a dark background with green and white text. At the bottom, there is a status bar with icons for a window, a home button, and a tilde symbol.

```
> nslookup es.wikipedia.org
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
es.wikipedia.org canonical name = dyna.wikimedia.org.
Name:  dyna.wikimedia.org
Address: 185.15.58.224
Name:  dyna.wikimedia.org
Address: 2a02:ec80:600:ed1a::1
```

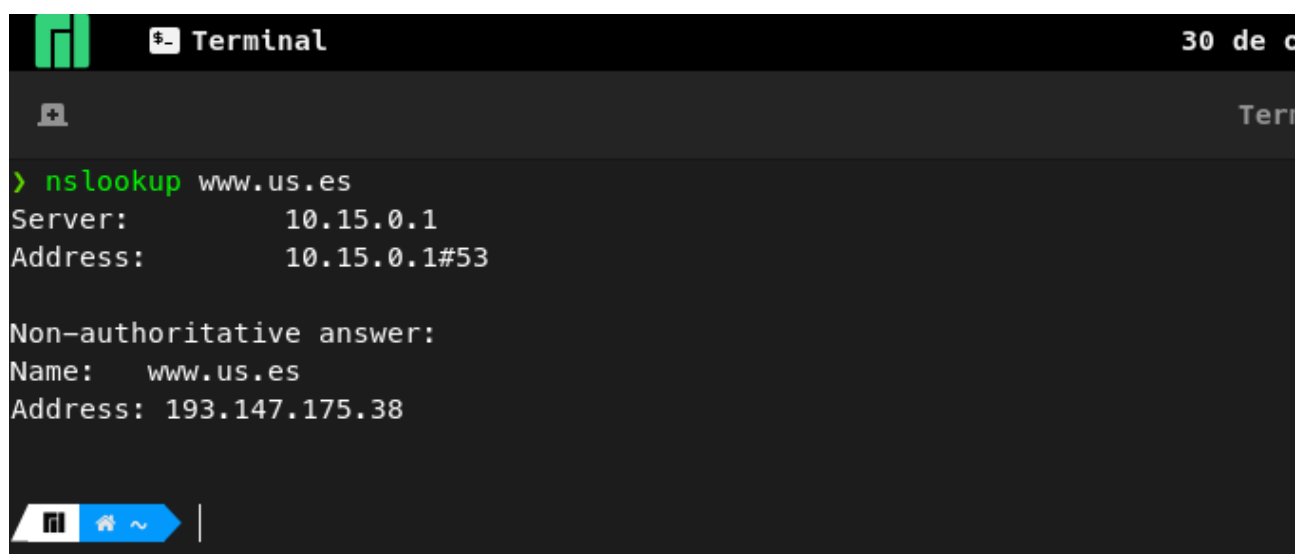
b) www.eltiempo.es

A terminal window titled "Terminal" with a dark background. The command prompt shows the execution of 'nslookup www.eltiempo.es'. The output displays the server IP as 10.15.0.1 and the address as 10.15.0.1#53. It then lists four non-authoritative answers for the domain, each with a name and an IP address. The terminal window includes a top bar with a green icon, a title bar, and a status bar showing "30 de o". A bottom bar contains navigation icons and a vertical line.

```
> nslookup www.eltiempo.es
Server:          10.15.0.1
Address:         10.15.0.1#53

Non-authoritative answer:
Name:   www.eltiempo.es
Address: 18.154.22.104
Name:   www.eltiempo.es
Address: 18.154.22.74
Name:   www.eltiempo.es
Address: 18.154.22.15
Name:   www.eltiempo.es
Address: 18.154.22.23
```

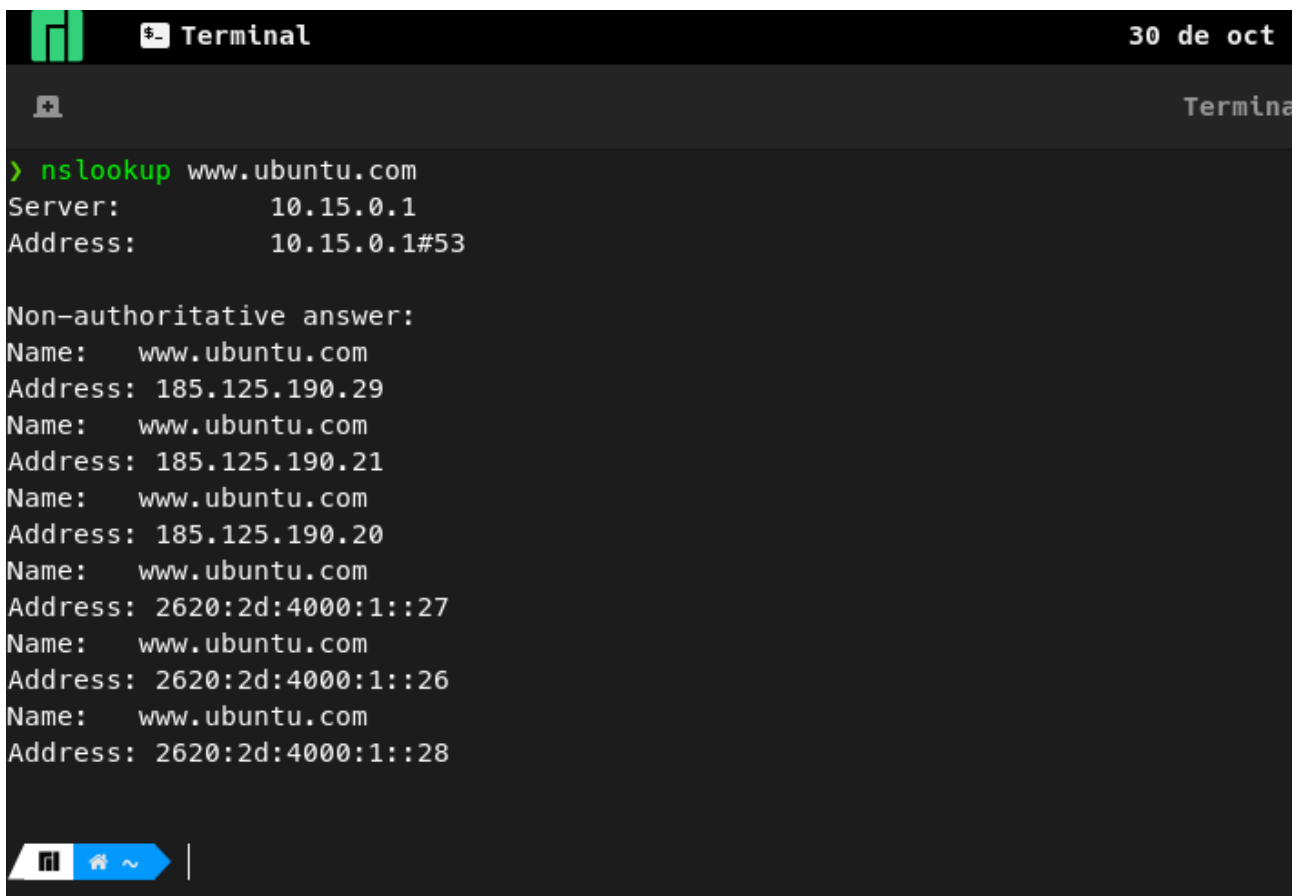
c) www.us.es

A terminal window titled "Terminal" with a dark background. The command prompt shows the execution of 'nslookup www.us.es'. The output displays the server IP as 10.15.0.1 and the address as 10.15.0.1#53. It then lists a single non-authoritative answer for the domain with a name and an IP address. The terminal window includes a top bar with a green icon, a title bar, and a status bar showing "30 de o". A bottom bar contains navigation icons and a vertical line.

```
> nslookup www.us.es
Server:          10.15.0.1
Address:         10.15.0.1#53

Non-authoritative answer:
Name:   www.us.es
Address: 193.147.175.38
```

e) www.ubuntu.com

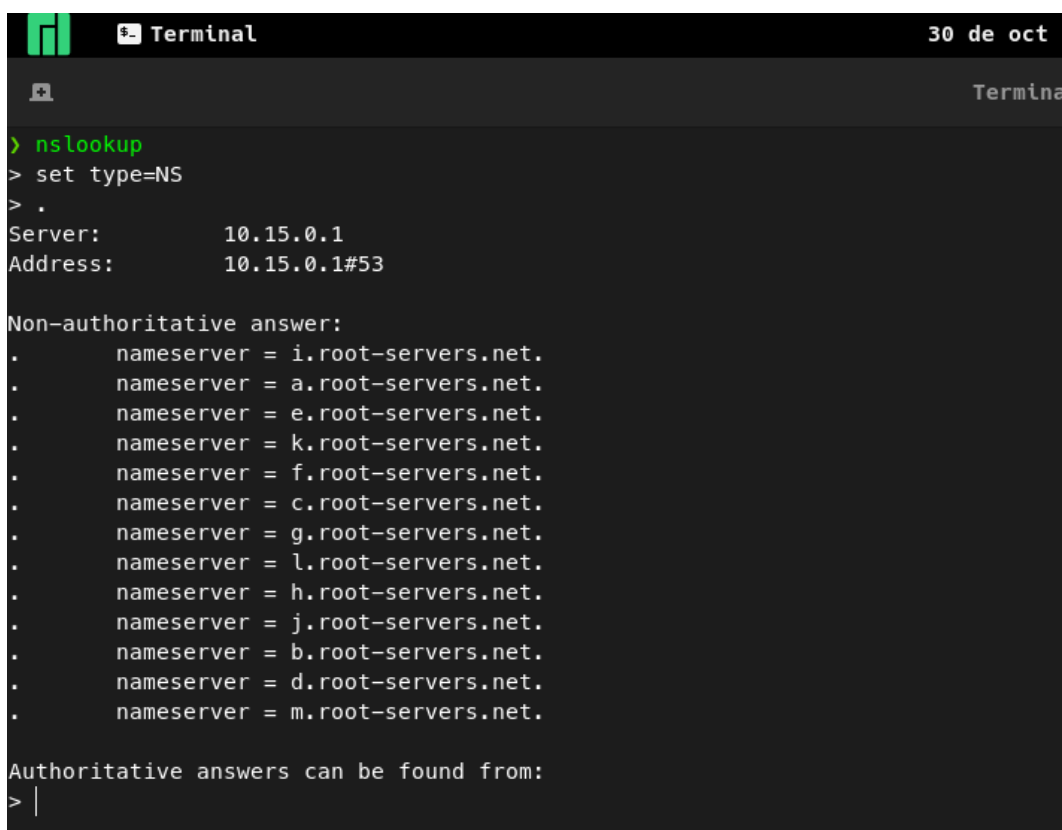
A terminal window titled "Terminal" with a date "30 de oct" in the top right corner. The terminal shows the command "nslookup www.ubuntu.com" and its output. The output includes the server IP (10.15.0.1), the address (10.15.0.1#53), and a non-authoritative answer listing several IP addresses for www.ubuntu.com.

```
> nslookup www.ubuntu.com
Server:          10.15.0.1
Address:         10.15.0.1#53

Non-authoritative answer:
Name:   www.ubuntu.com
Address: 185.125.190.29
Name:   www.ubuntu.com
Address: 185.125.190.21
Name:   www.ubuntu.com
Address: 185.125.190.20
Name:   www.ubuntu.com
Address: 2620:2d:4000:1::27
Name:   www.ubuntu.com
Address: 2620:2d:4000:1::26
Name:   www.ubuntu.com
Address: 2620:2d:4000:1::28
```

Ejercicio 3.2 Obtén el nombre y la dirección IPs correspondientes a los servidores DNS autoritarios de los siguientes TLDs y SLDs:

a) dominio raíz (.)

A terminal window titled "Terminal" with a date "30 de oct" in the top right corner. The terminal shows the command "nslookup" followed by "set type=NS" and ".". The output lists the nameservers for the root domain, including i.root-servers.net through m.root-servers.net.

```
> nslookup
> set type=NS
> .
Server:          10.15.0.1
Address:         10.15.0.1#53

Non-authoritative answer:
.       nameserver = i.root-servers.net.
.       nameserver = a.root-servers.net.
.       nameserver = e.root-servers.net.
.       nameserver = k.root-servers.net.
.       nameserver = f.root-servers.net.
.       nameserver = c.root-servers.net.
.       nameserver = g.root-servers.net.
.       nameserver = l.root-servers.net.
.       nameserver = h.root-servers.net.
.       nameserver = j.root-servers.net.
.       nameserver = b.root-servers.net.
.       nameserver = d.root-servers.net.
.       nameserver = m.root-servers.net.

Authoritative answers can be found from:
> |
```

b) com

```
Terminal 30 de oct 3
+ Termina
> com
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
com          nameserver = h.gtld-servers.net.
com          nameserver = j.gtld-servers.net.
com          nameserver = d.gtld-servers.net.
com          nameserver = f.gtld-servers.net.
com          nameserver = c.gtld-servers.net.
com          nameserver = b.gtld-servers.net.
com          nameserver = a.gtld-servers.net.
com          nameserver = i.gtld-servers.net.
com          nameserver = m.gtld-servers.net.
com          nameserver = l.gtld-servers.net.
com          nameserver = g.gtld-servers.net.
com          nameserver = e.gtld-servers.net.
com          nameserver = k.gtld-servers.net.

Authoritative answers can be found from:
> |
```

c) org

```
Terminal 30 de oct 3
+ Termina
> org
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
org          nameserver = c0.org.afiliast-nst.info.
org          nameserver = a2.org.afiliast-nst.info.
org          nameserver = b0.org.afiliast-nst.org.
org          nameserver = a0.org.afiliast-nst.info.
org          nameserver = b2.org.afiliast-nst.org.
org          nameserver = d0.org.afiliast-nst.org.

Authoritative answers can be found from:
> |
```

d) es

```
Terminal 30 de oct 10:19
Terminal
> es
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
es      nameserver = a.nic.es.
es      nameserver = h.nic.es.
es      nameserver = g.nic.es.
es      nameserver = c.nic.es.

Authoritative answers can be found from:
> |
```

e) us.es

```
Terminal 30 de oct 10:21
Terminal
> us.es
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
us.es  nameserver = sun.rediris.es.
us.es  nameserver = dns1.cica.es.
us.es  nameserver = dns2.cica.es.
us.es  nameserver = jade.us.es.
us.es  nameserver = onix.us.es.
us.es  nameserver = chico.rediris.es.

Authoritative answers can be found from:
> |
```

f) wikipedia.org

```
Terminal 30 de oct 10:26
Terminal
> wikipedia.org
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
wikipedia.org nameserver = ns0.wikimedia.org.
wikipedia.org nameserver = ns1.wikimedia.org.
wikipedia.org nameserver = ns2.wikimedia.org.

Authoritative answers can be found from:
> |
```

g) ubuntu.com

```
Terminal 30 de oct 10:28
Terminal
> ubuntu.com
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
ubuntu.com   nameserver = ns1.canonical.com.
ubuntu.com   nameserver = ns2.canonical.com.
ubuntu.com   nameserver = ns3.canonical.com.

Authoritative answers can be found from:
> |
```

Ejercicio 3.3 Obtén el nombre y la dirección IP de los servidores de correo de los siguientes dominios:

a) apuntmedia.es

```
Terminal 30 de oct 10:32
Terminal
> apuntmedia.es
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
apuntmedia.es mail exchanger = 10 mail.apuntmedia.es.

Authoritative answers can be found from:
> |
```

b) us.es

```
Terminal 30 de oct 10:32
Terminal
> us.es
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
us.es mail exchanger = 10 buzon.us.es.

Authoritative answers can be found from:
> |
```

c) wikipedia.org

```
Terminal 30 de oct 10:33
Terminal
> wikipedia.org
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
wikipedia.org mail exchanger = 10 mx1001.wikimedia.org.
wikipedia.org mail exchanger = 10 mx2001.wikimedia.org.

Authoritative answers can be found from:
> |
```

d) ubuntu.com

```
Terminal 30 de oct 10:33
Terminal
> ubuntu.com
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
ubuntu.com   mail exchanger = 10 mx.ubuntu.com.

Authoritative answers can be found from:
> |
```

Ejercicio 3.4 Obtén el registro SOA de los siguientes dominios:

a) kernel.org

```
Terminal 30 de oct 10:35
Terminal
> kernel.org
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
kernel.org
    origin = ns11.constellix.com
    mail addr = dns.constellix.com
    serial = 2015011583
    refresh = 43200
    retry = 3600
    expire = 1209600
    minimum = 180

Authoritative answers can be found from:
> |
```

b) apuntmedia.es

```
Terminal 30 de oct 10:36
Terminal
> apuntmedia.es
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
apunmedia.es
      origin = ns1.dnsoverant103.com
      mail addr = servers.cvmc.es
      serial = 2023051501
      refresh = 10800
      retry = 3600
      expire = 604800
      minimum = 10800

Authoritative answers can be found from:
> |
```

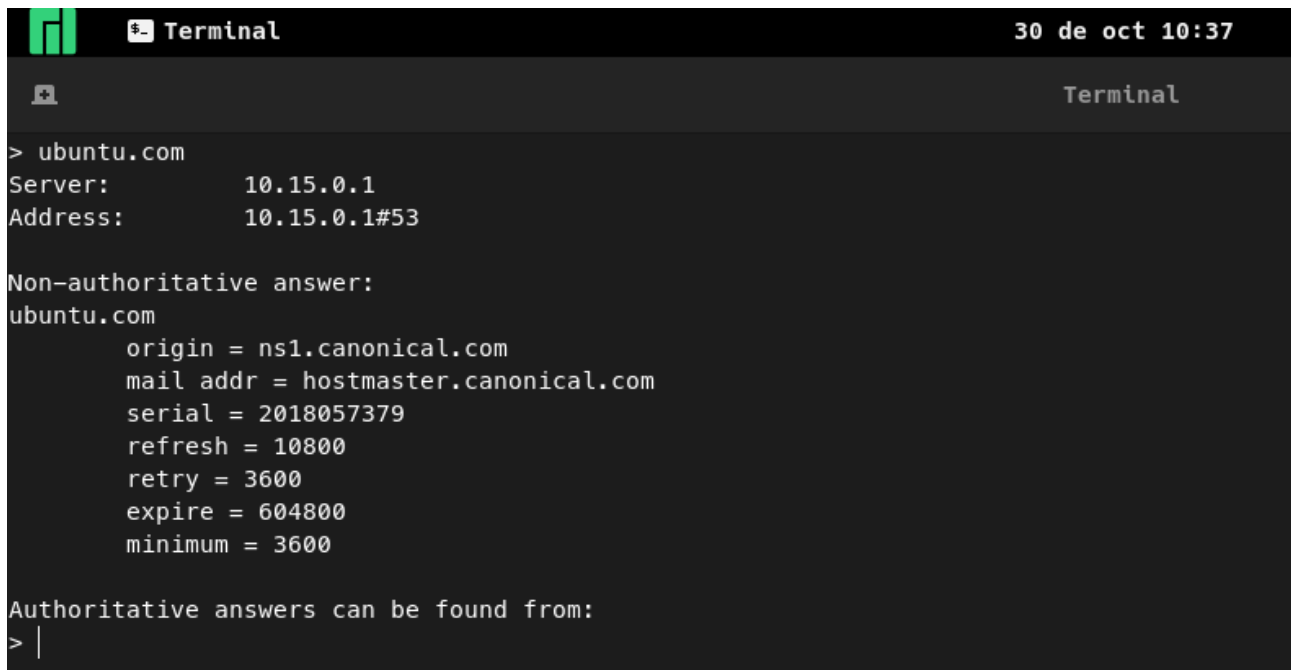
c) barrapunto.com

```
Terminal 30 de oct 10:37
Terminal
> barrapunto.com
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
barrapunto.com
      origin = ns.barrapunto.com
      mail addr = root.ns.barrapunto.com
      serial = 2018012502
      refresh = 300
      retry = 300
      expire = 2592000
      minimum = 300

Authoritative answers can be found from:
> |
```


d) ubuntu.com

A terminal window titled "Terminal" with a date and time of "30 de oct 10:37". The terminal shows a command prompt ">" followed by "ubuntu.com". The output displays DNS server information: "Server: 10.15.0.1" and "Address: 10.15.0.1#53". It then shows a "Non-authoritative answer:" for "ubuntu.com" with several fields: "origin = ns1.canonical.com", "mail addr = hostmaster.canonical.com", "serial = 2018057379", "refresh = 10800", "retry = 3600", "expire = 604800", and "minimum = 3600". Finally, it says "Authoritative answers can be found from:" followed by a prompt "> |".

```
> ubuntu.com
Server:      10.15.0.1
Address:     10.15.0.1#53

Non-authoritative answer:
ubuntu.com
  origin = ns1.canonical.com
  mail addr = hostmaster.canonical.com
  serial = 2018057379
  refresh = 10800
  retry = 3600
  expire = 604800
  minimum = 3600

Authoritative answers can be found from:
> |
```