

DNS- Activity#4

- Obtén la dirección IP de los siguientes dominios: www.uhu.es, www.us.es, es.wikipedia.org

```

rafausuario@rafaubuntu:~$ dig www.uhu.es

;>>> DiG 9.10.3-P4-Ubuntu <<> www.uhu.es
global options: +cmd
Got answer:
->>HEADER<<- opcode: QUERY, status: NOERROR, id: 15441
flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

OPT PSEUDOSECTION:
EDNS: version: 0, flags:;, udp: 512
QUESTION SECTION:
www.uhu.es.                IN      A

ANSWER SECTION:
www.uhu.es.                16653  IN      A      150.214.167.13

Query time: 49 msec
SERVER: 127.0.1.1#53(127.0.1.1)
WHEN: Fri Jan 19 08:24:51 CET 2024
MSG SIZE rcvd: 55

rafausuario@rafaubuntu:~$ dig www.us.es

;>>> DiG 9.10.3-P4-Ubuntu <<> www.us.es
global options: +cmd
Got answer:
->>HEADER<<- opcode: QUERY, status: NOERROR, id: 46527
flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

OPT PSEUDOSECTION:
EDNS: version: 0, flags:;, udp: 512
QUESTION SECTION:
www.us.es.                 IN      A

ANSWER SECTION:
www.us.es.                 10042  IN      A      193.147.175.38

Query time: 35 msec
SERVER: 127.0.1.1#53(127.0.1.1)
WHEN: Fri Jan 19 08:26:15 CET 2024
MSG SIZE rcvd: 54

rafausuario@rafaubuntu:~$
  
```

```

rafausuario@rafaubuntu:~$ dig www.us.es

;>>> DiG 9.10.3-P4-Ubuntu <<> www.us.es
global options: +cmd
Got answer:
->>HEADER<<- opcode: QUERY, status: NOERROR, id: 46527
flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

OPT PSEUDOSECTION:
EDNS: version: 0, flags:;, udp: 512
QUESTION SECTION:
www.us.es.                 IN      A

ANSWER SECTION:
www.us.es.                 10042  IN      A      193.147.175.38

Query time: 35 msec
SERVER: 127.0.1.1#53(127.0.1.1)
WHEN: Fri Jan 19 08:26:15 CET 2024
MSG SIZE rcvd: 54

rafausuario@rafaubuntu:~$ dig es.wikipedia.com

;>>> DiG 9.10.3-P4-Ubuntu <<> es.wikipedia.com
global options: +cmd
Got answer:
->>HEADER<<- opcode: QUERY, status: NOERROR, id: 15650
flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

OPT PSEUDOSECTION:
EDNS: version: 0, flags:;, udp: 512
QUESTION SECTION:
es.wikipedia.com.          IN      A

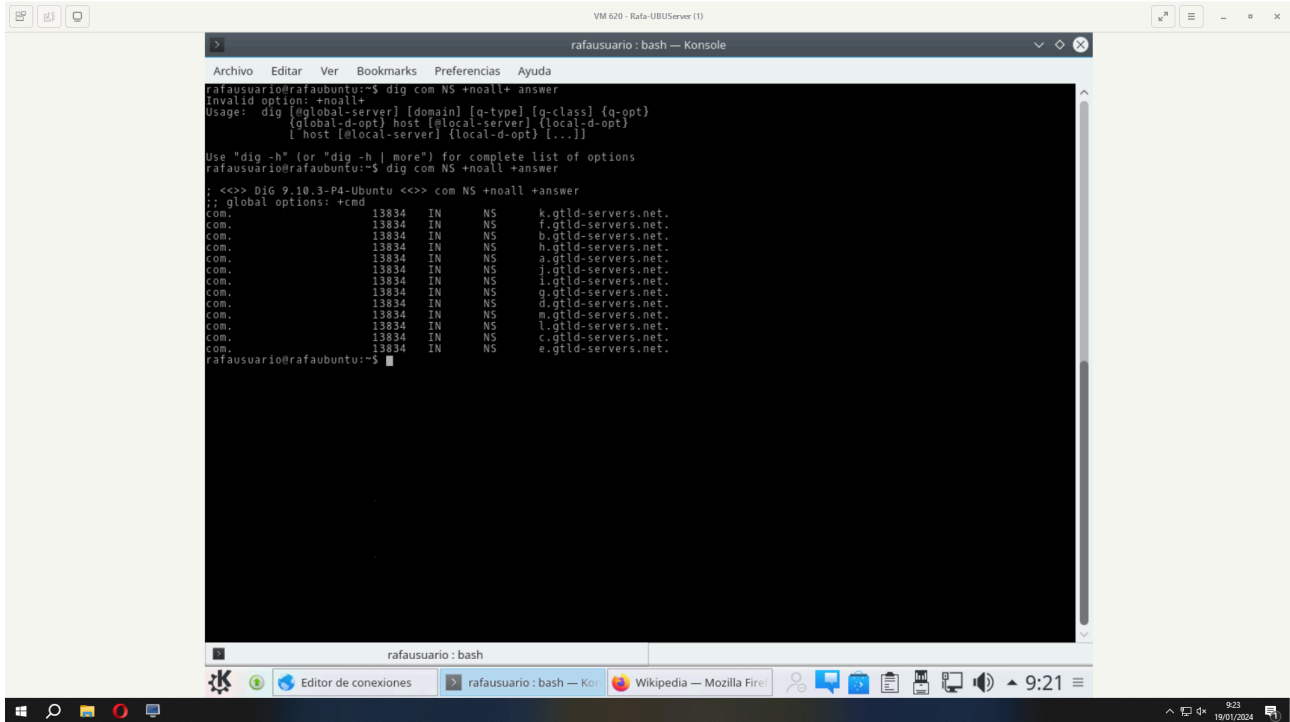
ANSWER SECTION:
es.wikipedia.com.          21400  IN      CNAME  ncredir-lb.wikimedia.org.
ncredir-lb.wikimedia.org.  400    IN      A      185.15.58.226

Query time: 178 msec
SERVER: 127.0.1.1#53(127.0.1.1)
WHEN: Fri Jan 19 08:27:49 CET 2024
MSG SIZE rcvd: 99

rafausuario@rafaubuntu:~$
  
```

2. Obtén la dirección y los servidor DNS que corresponden a los siguientes dominios: net, com, us.es, wikipedia.org

dig com NS +noall +answer

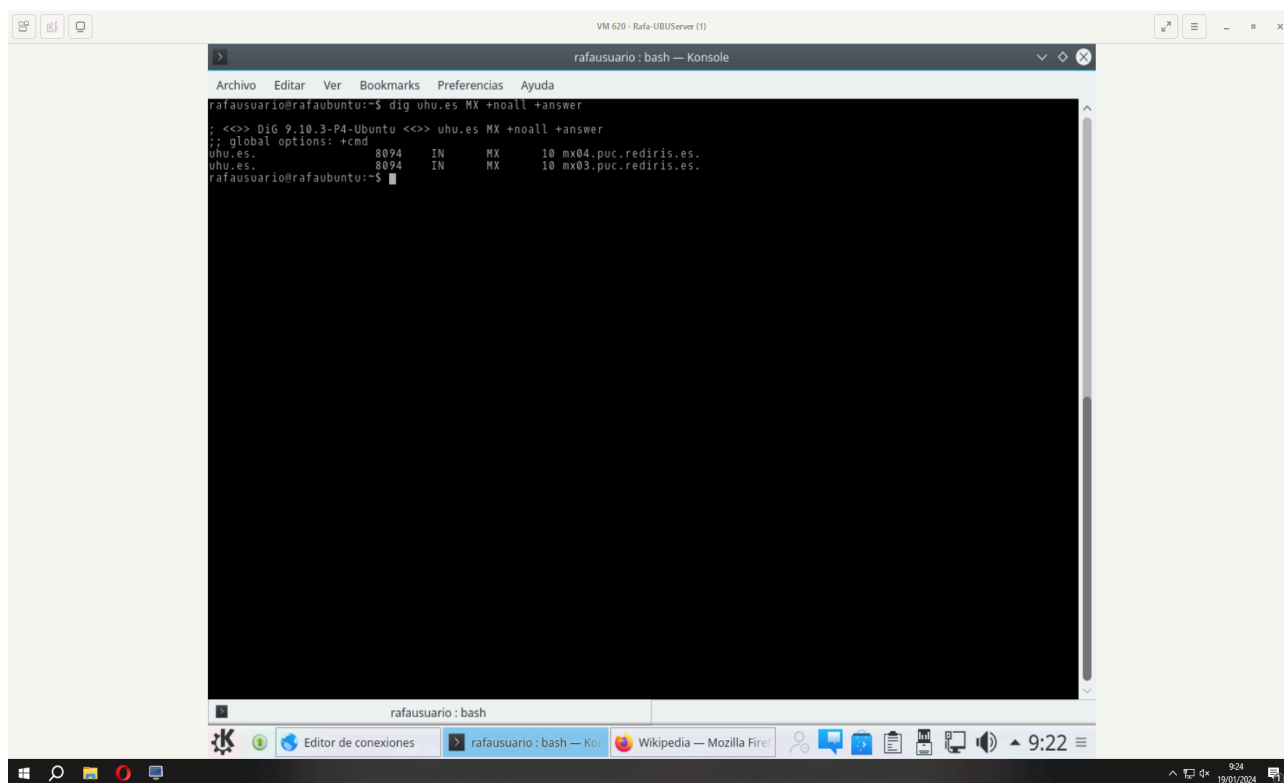


```
rafausuario@rafaubuntu:~$ dig com NS +noall+ answer
Invalid option: +noall+
Usage: dig [global-server] [domain] [q-type] [q-class] [q-opt]
        [global-d-opt] host [local-server] [local-d-opt]
        [host [local-server] [local-d-opt] [...]]

Use "dig -h" (or "dig -h | more") for complete list of options
rafausuario@rafaubuntu:~$ dig com NS +noall +answer
;<<> Dig 9.10.3-P4-Ubuntu <<> com NS +noall +answer
;; global options: +cmd
com.      13834 IN      NS       k.gtld-servers.net.
com.      13834 IN      NS       f.gtld-servers.net.
com.      13834 IN      NS       b.gtld-servers.net.
com.      13834 IN      NS       h.gtld-servers.net.
com.      13834 IN      NS       a.gtld-servers.net.
com.      13834 IN      NS       i.gtld-servers.net.
com.      13834 IN      NS       g.gtld-servers.net.
com.      13834 IN      NS       d.gtld-servers.net.
com.      13834 IN      NS       m.gtld-servers.net.
com.      13834 IN      NS       l.gtld-servers.net.
com.      13834 IN      NS       c.gtld-servers.net.
com.      13834 IN      NS       e.gtld-servers.net.
```

3. Averigua los registros MX de los siguientes dominios: uhu.es, us.es, wikipedia.org

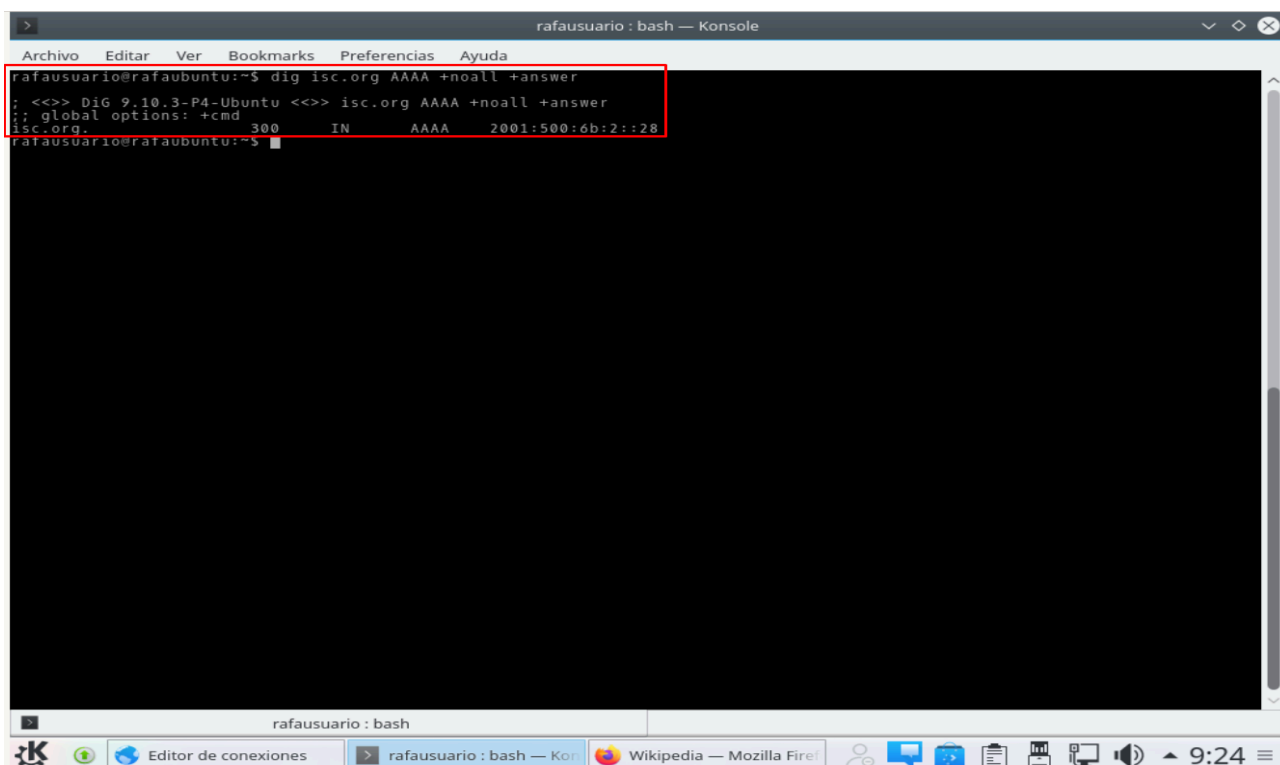
dig www.uhu.es MX +noall +answer



```
rafausuario@rafaubuntu:~$ dig uhu.es MX +noall +answer
; <<>> DiG 9.10.3-P4-Ubuntu <<>> uhu.es MX +noall +answer
;; global options: +cmd
uhu.es.      8094   IN     MX     10 mx04.puc.rediris.es.
uhu.es.      8094   IN     MX     10 mx03.puc.rediris.es.
rafausuario@rafaubuntu:~$
```

4. Obten la dirección IPV6 de www.isc.org

dig www.isc.org AAAA +noall +answer



```
rafausuario@rafaubuntu:~$ dig isc.org AAAA +noall +answer
; <<>> DiG 9.10.3-P4-Ubuntu <<>> isc.org AAAA +noall +answer
;; global options: +cmd
isc.org.     300    IN     AAAA   2001:500:6b2::28
rafausuario@rafaubuntu:~$
```

5. Muestra los servidores de correo de yahoo.com

dig yahoo.com MX +noall +answer

```

rafausuario@rafaubuntu:~$ dig yahoo.com MX +noall +answer
;; global options: +cmd
yahoo.com.        1196    IN      MX      1 mta5.am0.yahoodns.net.
yahoo.com.        1196    IN      MX      1 mta7.am0.yahoodns.net.
yahoo.com.        1196    IN      MX      1 mta6.am0.yahoodns.net.
rafausuario@rafaubuntu:~$

```

6. Muestra la información asociada con la dirección 75.126.153.206

dig -x 75.126.153.206 NS

```

rafausuario@rafaubuntu:~$ dig 72.126.153.206 NS
;; Query time: 0 msec
;; SERVER: 127.0.1.1#53(127.0.1.1)
;; WHEN: Fri Jan 19 09:29:11 CET 2024
;; MSG SIZE rcvd: 59

rafausuario@rafaubuntu:~$ dig 72.126.153.206 NS
;; <<> DiG 9.10.3-P4-Ubuntu <<> 72.126.153.206 NS
;; global options: +cmd
;; Got answer:
-->HEADER<-- opcode: QUERY, status: NXDOMAIN, id: 63387
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:;, udp: 512
;; QUESTION SECTION:
;; 72.126.153.206.                IN      NS

;; AUTHORITY SECTION:
                86398    IN      SOA     a.root-servers.net. nstld.verisign-grs.com. 2024011900 1800 900 604800 86400

;; Query time: 49 msec
;; SERVER: 127.0.1.1#53(127.0.1.1)
;; WHEN: Fri Jan 19 09:29:17 CET 2024
;; MSG SIZE rcvd: 118

rafausuario@rafaubuntu:~$ dig -x 72.126.153.206 NS
;; <<> DiG 9.10.3-P4-Ubuntu <<> -x 72.126.153.206 NS
;; global options: +cmd
;; Got answer:
-->HEADER<-- opcode: QUERY, status: NOERROR, id: 57129
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:;, udp: 512
;; QUESTION SECTION:
;; 206.153.126.72.in-addr.arpa.    IN      NS

;; AUTHORITY SECTION:
126.72.in-addr.arpa.    900     IN      SOA     njbbintddns21v.local. vzw\.\net\dns.verizonwireless.com. 284 86400 7200 12096 00 900

;; Query time: 157 msec
;; SERVER: 127.0.1.1#53(127.0.1.1)
;; WHEN: Fri Jan 19 09:30:12 CET 2024
;; MSG SIZE rcvd: 143

rafausuario@rafaubuntu:~$

```

- Muestra la dirección de www.google.es utilizando uno de los servidores DNS de google.com

dig @ns1.google.com www.google.com +noall +answer

```

>
rafausuario : bash — Konsole
Archivo  Editar  Ver  Bookmarks  Preferencias  Ayuda
rafausuario@rafaubuntu:~$ dig ns1.google.com www.google.com +noall +answer
<<>> DiG 9.10.3-P4-Ubuntu <<>> ns1.google.com www.google.com +noall +answer
global options: +cmd
Got answer:
->>HEADER<- opcode: QUERY, status: NOERROR, id: 25425
flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
ns1.google.com.
IN
A

;; ANSWER SECTION:
ns1.google.com.      8690    IN      A       216.239.32.10

;; Query time: 11 msec
SERVER: 127.0.1.1#53(127.0.1.1)
WHEN: Fri Jan 19 09:32:19 CET 2024
MSG SIZE rcvd: 59

www.google.com.      231     IN      A       142.250.200.68
rafausuario@rafaubuntu:~$

```

- Muestra información sobre el TTL de drive.google.com. Ejecútalo en varias ocasiones y comprueba cómo cambia el valor.

dig +nocmd drive.google.com +noall +answer

```

>
rafausuario : bash — Konsole
Archivo  Editar  Ver  Bookmarks  Preferencias  Ayuda
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    38      IN      A       142.250.201.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    265     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    254     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    17      IN      A       142.250.185.14
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    22      IN      A       142.250.201.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    21      IN      A       142.250.201.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    10      IN      A       142.250.201.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    3       IN      A       142.250.185.14
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    26      IN      A       142.250.178.174
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    46      IN      A       142.250.185.14
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    300     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    233     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    41      IN      A       142.250.185.14
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    300     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    298     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    35      IN      A       142.250.185.14
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    288     IN      A       142.250.185.14
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    300     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    229     IN      A       142.250.201.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    298     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    295     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    294     IN      A       142.250.201.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    286     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$ dig +nocmd drive.google.com +noall +answer
drive.google.com.    285     IN      A       142.250.200.78
rafausuario@rafaubuntu:~$

```

9. Muestra los registro type NS de redhat.com

dig -t NS redhat.com +noall +answer

```

rafausuario : bash — Konsole
Archivo  Editar  Ver  Bookmarks  Preferencias  Ayuda
rafausuario@rafaubuntu:~$ dig -t NS redhat.com +noall +answer
; <<>> DiG 9.10.3-P4-Ubuntu <<>> -t NS redhat.com +noall +answer
;; global options: +cmd
redhat.com.      3600    IN      NS      dns1.p01.nsoone.net.
redhat.com.      3600    IN      NS      dns2.p01.nsoone.net.
redhat.com.      3600    IN      NS      dns3.p01.nsoone.net.
redhat.com.      3600    IN      NS      dns4.p01.nsoone.net.
redhat.com.      3600    IN      NS      dns1.p02.nsoone.net.
redhat.com.      3600    IN      NS      dns2.p02.nsoone.net.
rafausuario@rafaubuntu:~$

```

10. Muestra todos los registros de google.com

dig google.com ANY +noall +answer

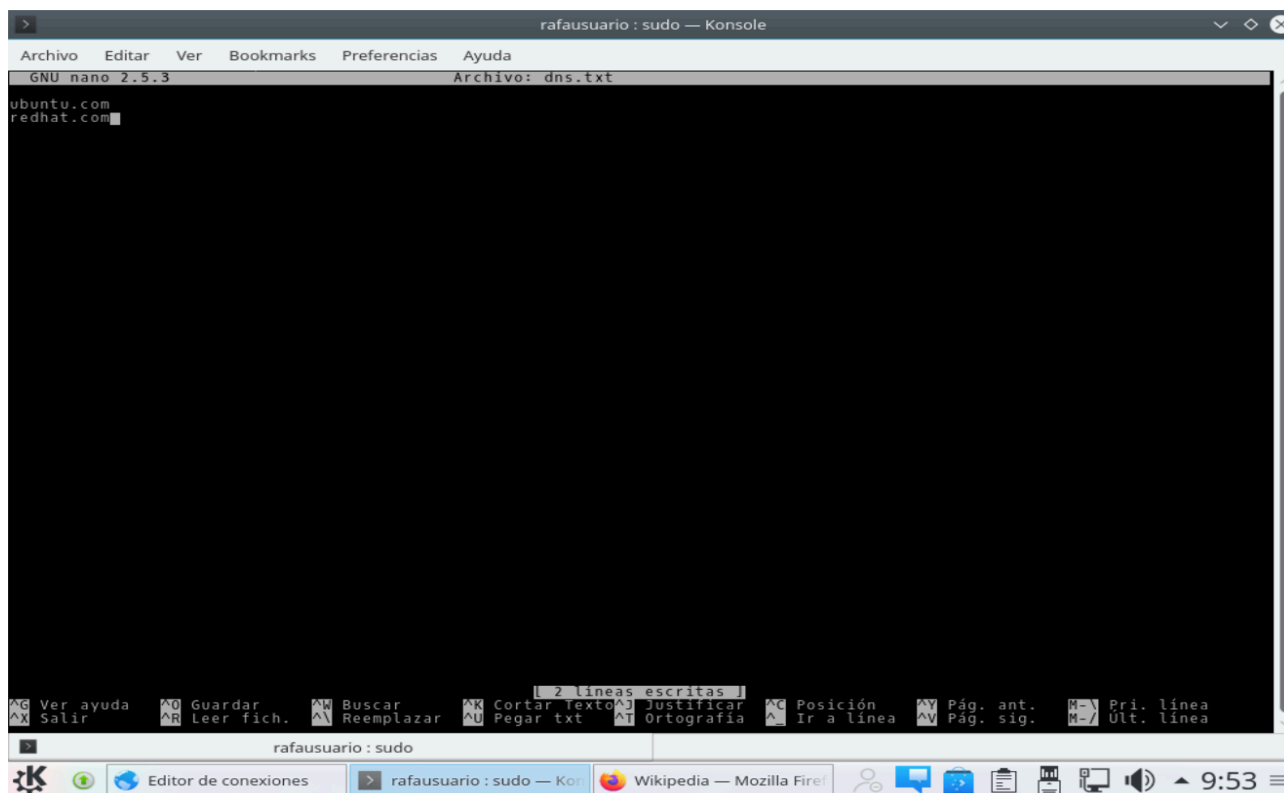
```

rafausuario : bash — Konsole
Archivo  Editar  Ver  Bookmarks  Preferencias  Ayuda
rafausuario@rafaubuntu:~$ dig -t NS redhat.com +noall +answer
; <<>> DiG 9.10.3-P4-Ubuntu <<>> -t NS redhat.com +noall +answer
;; global options: +cmd
redhat.com.      3600    IN      NS      dns1.p01.nsoone.net.
redhat.com.      3600    IN      NS      dns2.p01.nsoone.net.
redhat.com.      3600    IN      NS      dns3.p01.nsoone.net.
redhat.com.      3600    IN      NS      dns4.p01.nsoone.net.
redhat.com.      3600    IN      NS      dns1.p02.nsoone.net.
redhat.com.      3600    IN      NS      dns2.p02.nsoone.net.
rafausuario@rafaubuntu:~$ dig google.com ANY +noall +answer
; <<>> DiG 9.10.3-P4-Ubuntu <<>> google.com ANY +noall +answer
;; global options: +cmd
google.com.      265     IN      A        172.217.168.78
google.com.      265     IN      AAAA     2a00:1450:400a:803::200e
google.com.      3565    IN      TXT      "globalsign-smime-dv=CDYX+XFHUw2wml6/Gb8+59BsH31KzUr6c1l2BPvqKX8="
google.com.      21565   IN      NS       ns4.google.com.
google.com.      3565    IN      TXT      "MS=E4A689AB2B89670BCE15412F62916164C0B20BB"
google.com.      3565    IN      TXT      "google-site-verification=TV9-DBe4R80X4v0M4U_bd_J9cp0JM0nikft0jAgjmsQ"
google.com.      21565   IN      TYPE65   \# 13 00010000010006026832026833
google.com.      3565    IN      TXT      "onetrust-domain-verification=de01ed21f2fa4d8781cbc3ffb89cf4ef"
google.com.      21565   IN      NS       ns2.google.com.
google.com.      25      IN      SOA      ns1.google.com. dns-admin.google.com. 599452336 900 900 1800 60
google.com.      3565    IN      TXT      "google-site-verification=wD8N7i1JTNtkeZJ49swvWW48f8_9xveREV4oB-0Hf5o"
google.com.      3565    IN      TXT      "facebook-domain-verification=22rm551cu4k0ab0bxs536Tlds4h95"
google.com.      3565    IN      TXT      "v=spf1 include:_spf.google.com ~all"
google.com.      21565   IN      NS       ns1.google.com.
google.com.      3565    IN      TXT      "docuSign=05958488-4752-4ef2-95eb-aa7ba8a3bd0e"
google.com.      3565    IN      TXT      "docuSign=1b0a6754-49b1-4db5-8540-d2c12664b289"
google.com.      3565    IN      TXT      "atlassian-domain-verification=5YjTmWmjI92ewqkx2oXmBaD60Td9zWon9r6eakvHX6B77z"
google.com.      21565   IN      NS       ns3.google.com.
google.com.      265     IN      MX       10 smtp.google.com.
google.com.      3565    IN      TXT      "webexdomainverification.8YX6G=6e6922db-e3e6-4a36-904e-a805c28087fa"
google.com.      3565    IN      TXT      "apple-domain-verification=30afIBcvSuDV2PLX"
google.com.      21565   IN      CAA      0 issue "pki.goog"
rafausuario@rafaubuntu:~$

```

11. Crea un fichero de texto que contenga los dominios;

```
nano dns.txt
ubuntu.com
redhat.com
```



rafausuario : sudo — Konsole

Archivo Editar Ver Bookmarks Preferencias Ayuda

GNU nano 2.5.3 Archivo: dns.txt

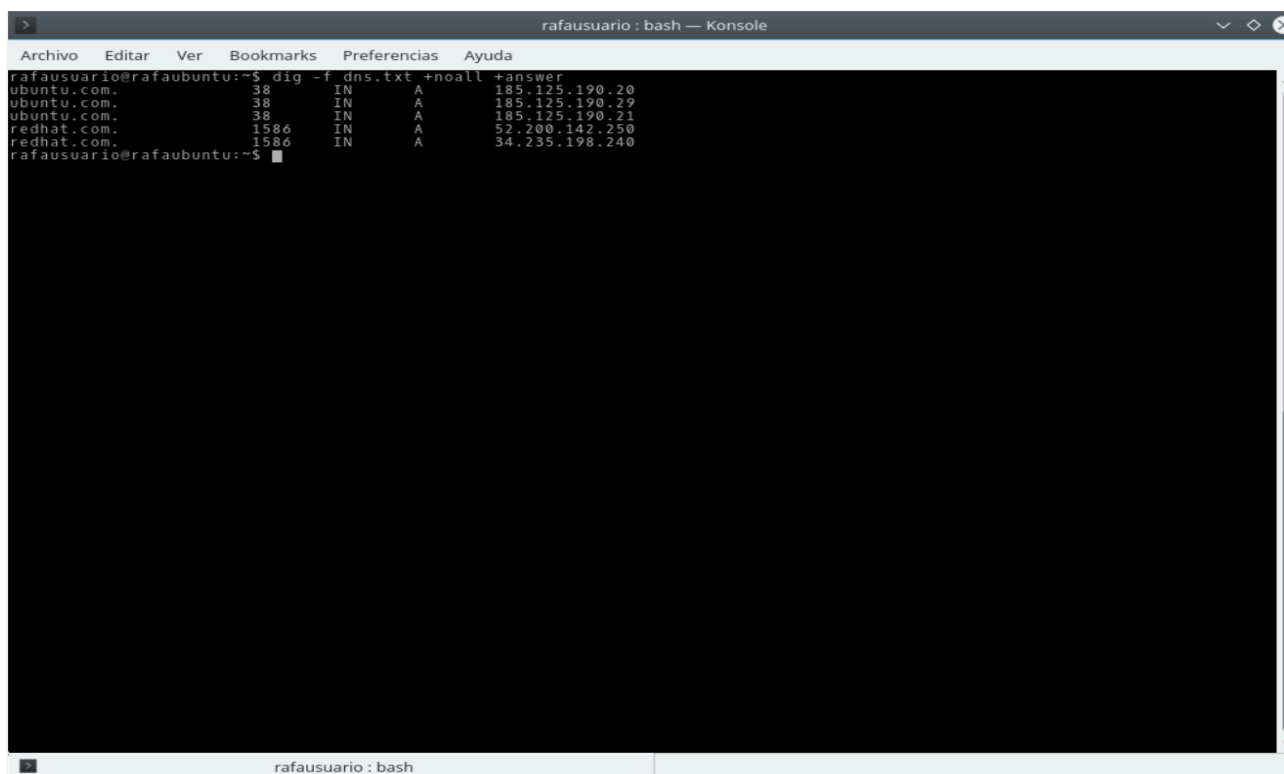
```
ubuntu.com
redhat.com
```

Ver ayuda Guardar Buscar 2 líneas escritas Posición Pág. ant. Pri. línea
Salir Leer fich. Reemplazar Cortar texto Pegar txt Justificar Ortografía Ir a línea Pág. sig. Ult. línea

rafausuario : sudo

Editor de conexiones rafausuario : sudo — Kon Wikipedia — Mozilla Firef 9:53

12. Haz una consulta con dig empleando el fichero anterior



rafausuario : bash — Konsole

Archivo Editar Ver Bookmarks Preferencias Ayuda

```
rafausuario@rafaubuntu:~$ dig -f dns.txt +noall +answer
ubuntu.com.      38      IN      A       185.125.190.20
ubuntu.com.      38      IN      A       185.125.190.29
ubuntu.com.      38      IN      A       185.125.190.21
redhat.com.      1586    IN      A       52.200.142.250
redhat.com.      1586    IN      A       34.235.198.240
rafausuario@rafaubuntu:~$
```

rafausuario : bash