

A:

```
cristian@Batman:~$ dig A multi-v4.protocoale.xyz +short
127.4.4.4
127.2.2.2
127.1.1.1
127.3.3.3
```

```
cristian@Batman:~$ dig A pc.protocoale.xyz +short
pcom.protocoale.xyz.
protocoale.protocoale.xyz.
127.42.42.42
```

B:

```
cristian@Batman:~$ dig AAAA multi-v6.protocoale.xyz +short
::4
::1
::2
::3
```

C:

```
cristian@Batman:~$ dig MX protocoale.xyz +short
30 alt3.gmail-smtp-in.l.google.com.
20 alt2.gmail-smtp-in.l.google.com.
10 alt1.gmail-smtp-in.l.google.com.
```

D:

```
cristian@Batman:~$ dig @l.gtld-servers.net google.com +noall +authority
; <>> DiG 9.11.3-lubuntu1.11-Ubuntu <>> @l.gtld-servers.net google.com +noall +authority
; (2 servers found)
;; global options: +cmd
google.com.      172800  IN      NS      ns2.google.com.
google.com.      172800  IN      NS      ns1.google.com.
google.com.      172800  IN      NS      ns3.google.com.
google.com.      172800  IN      NS      ns4.google.com.
```

E:

```
cristian@Batman:~$ dig A @8.8.8.8 google.com +short
216.58.214.206
```

```
cristian@Batman:~$ dig A @8.8.4.4 google.com +short
172.217.19.110
```

F:

```
cristian@Batman:~/Desktop/Year-II/Sem-II/PC/Labs/Lab9_DNS$ dig @8.8.8.8 -f cereri.txt +noall +answer
single-v4.protocoale.xyz. 299 IN A 127.0.0.1
single.protocoale.xyz. 299 IN A 127.0.0.1
multi-v4.protocoale.xyz. 299 IN A 127.4.4.4
multi-v4.protocoale.xyz. 299 IN A 127.3.3.3
multi-v4.protocoale.xyz. 299 IN A 127.1.1.1
multi-v4.protocoale.xyz. 299 IN A 127.2.2.2
multi.protocoale.xyz. 299 IN A 127.1.1.1
multi.protocoale.xyz. 299 IN A 127.2.2.2
multi.protocoale.xyz. 299 IN A 127.4.4.4
multi.protocoale.xyz. 299 IN A 127.3.3.3
pc.protocoale.xyz. 299 IN CNAME pcom.protocoale.xyz.
pcom.protocoale.xyz. 299 IN CNAME protocoale.protocoale.xyz.
protocoale.protocoale.xyz. 299 IN A 127.42.42.42
pcom.protocoale.xyz. 299 IN CNAME protocoale.protocoale.xyz.
protocoale.protocoale.xyz. 299 IN A 127.42.42.42
protocoale.protocoale.xyz. 299 IN A 127.42.42.42
```

G:

```
cristian@Batman:~/Desktop/Year-II/Sem-II/PC/Labs/Lab9_DNS$ dig @8.8.8.8 test.dorinel.protocoale.xyz +trace
```

protocoale.xyz

protocoale.xyz.	3600	IN	NS	ns1bcp.name.com.
protocoale.xyz.	3600	IN	NS	ns2dqr.name.com.
protocoale.xyz.	3600	IN	NS	ns3hix.name.com.
protocoale.xyz.	3600	IN	NS	ns4lrt.name.com.

dorinel.protocoale.xyz

dorinel.protocoale.xyz.	300	IN	NS	potato.dfilip.xyz.
dorinel.protocoale.xyz.	300	IN	NS	potato.dfilip.xyz.

H:

```
cristian@Batman:~/Desktop/Year-II/Sem-II/PC/Labs/Lab9_DNS$ dig -x 127.0.0.1 +noall +answer
; <<>> DiG 9.11.3-lubuntu1.11-Ubuntu <<>> -x 127.0.0.1 +noall +answer
;; global options: +cmd
1.0.0.127.in-addr.arpa. 0 IN PTR localhost.
```

I: dig google.com  
dig 8.8.8.8

Capturing from any

FileEditViewGoCaptureAnalyzeStatisticsTelephonyWirelessToolsHelp

dns Expression...

No.	Time	Source	Destination	Protocol	Length	Info
35	1.491244997	127.0.0.1	127.0.0.53	DNS	95	Standard query 0xb20c A google.com OPT
36	1.491385806	127.0.0.53	127.0.0.1	DNS	99	Standard query response 0xb20c A google.com A 172.217.20.14 OPT
470	10.455323452	127.0.0.1	127.0.0.53	DNS	92	Standard query 0x948a A 8.8.8.8 OPT
471	10.455470710	127.0.0.53	127.0.0.1	DNS	80	Standard query response 0x948a No such name A 8.8.8.8 OPT

+ Frame 471: 80 bytes on wire (640 bits), 80 bytes captured (640 bits) on interface 0

+ Linux cooked capture

+ Internet Protocol Version 4, Src: 127.0.0.53, Dst: 127.0.0.1

+ User Datagram Protocol, Src Port: 53, Dst Port: 51625

+ Domain Name System (response)

0000 00 00 03 04 00 00 00 00 00 00 00 00 00 00 00 .....  
0010 45 00 00 40 2e 21 40 00 40 11 0e 56 7f 00 00 35 E..@.!@.@..V...5  
0020 7f 00 00 01 00 35 c9 a9 00 2c fe 73 94 8a 81 83 .....5...s...  
0030 00 01 00 00 00 00 01 01 38 01 38 01 38 01 38 .....8.8.8.8  
0040 00 00 01 00 01 00 00 29 ff d6 00 00 00 00 00 00 .....)

any: <live capture in progress>

Packets: 2074 · Displayed: 4 (0.2%)

Profile: Default