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Atividades Terminal 25 de set 23:36 higor@Butinho: ~
higor@Butinho:~$ dig . NS | grep -m 1 root-servers.net
. 6964 IN NS g.root-servers.net.
higor@Butinho:~$ dig @g.root-servers.net

; <<>> DiG 9.18.30-0ubuntu0.20.04.2-Ubuntu <<>> @g.root-servers.net
; (2 servers found)
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 62036
;; flags: qr aa rd; QUERY: 1, ANSWER: 13, AUTHORITY: 0, ADDITIONAL: 27
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
; COOKIE: 98c7345f3949d7b90100000068d5fc0979e74c2eae836972 (good)
;; QUESTION SECTION:
; . IN NS
;

;; ANSWER SECTION:
. 518400 IN NS j.root-servers.net.
. 518400 IN NS f.root-servers.net.
. 518400 IN NS a.root-servers.net.
. 518400 IN NS c.root-servers.net.
. 518400 IN NS l.root-servers.net.
. 518400 IN NS d.root-servers.net.
. 518400 IN NS h.root-servers.net.
. 518400 IN NS e.root-servers.net.
. 518400 IN NS b.root-servers.net.
. 518400 IN NS i.root-servers.net.
. 518400 IN NS g.root-servers.net.
. 518400 IN NS k.root-servers.net.
. 518400 IN NS m.root-servers.net.

;; ADDITIONAL SECTION:
m.root-servers.net. 518400 IN A 202.12.27.33
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Atividades Terminal 25 de set 23:39 higor@Butinho: ~  
;; ADDITIONAL SECTION:  
m.root-servers.net. 518400 IN A 202.12.27.33  
l.root-servers.net. 518400 IN A 199.7.83.42  
k.root-servers.net. 518400 IN A 193.0.14.129  
j.root-servers.net. 518400 IN A 192.58.128.30  
i.root-servers.net. 518400 IN A 192.36.148.17  
h.root-servers.net. 518400 IN A 198.97.190.53  
g.root-servers.net. 518400 IN A 192.112.36.4  
f.root-servers.net. 518400 IN A 192.5.5.241  
e.root-servers.net. 518400 IN A 192.203.230.10  
d.root-servers.net. 518400 IN A 199.7.91.13  
c.root-servers.net. 518400 IN A 192.33.4.12  
b.root-servers.net. 518400 IN A 170.247.170.2  
a.root-servers.net. 518400 IN A 198.41.0.4  
m.root-servers.net. 518400 IN AAAA 2001:dc3::35  
l.root-servers.net. 518400 IN AAAA 2001:500:9f::42  
k.root-servers.net. 518400 IN AAAA 2001:7fd::1  
j.root-servers.net. 518400 IN AAAA 2001:503:c27::2:30  
i.root-servers.net. 518400 IN AAAA 2001:7fe::53  
h.root-servers.net. 518400 IN AAAA 2001:500:1::53  
g.root-servers.net. 518400 IN AAAA 2001:500:12::d0d  
f.root-servers.net. 518400 IN AAAA 2001:500:2f::f  
e.root-servers.net. 518400 IN AAAA 2001:500:a8::e  
d.root-servers.net. 518400 IN AAAA 2001:500:2d::d  
c.root-servers.net. 518400 IN AAAA 2001:500:2::c  
b.root-servers.net. 518400 IN AAAA 2801:1b8:10::b  
a.root-servers.net. 518400 IN AAAA 2001:503:ba3e::2:30  
  
;; Query time: 180 msec  
;; SERVER: 2001:500:12::d0d#53(g.root-servers.net) (UDP)  
;; WHEN: Thu Sep 25 23:35:53 -03 2025  
;; MSG SIZE rcvd: 851  
  
higor@Butinho:~$
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```
Atividades Terminal 25 de set 23:41 higor@Butinho: ~  
higor@Butinho:~$ dig @a.root-servers.net br. NS  
; <<>> DiG 9.18.30-0ubuntu0.20.04.2-Ubuntu <<>> @a.root-servers.net br. NS  
; (2 servers found)  
;; global options: +cmd  
;; Got answer:  
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 54836  
;; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 6, ADDITIONAL: 13  
;; WARNING: recursion requested but not available  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 4096  
;; QUESTION SECTION:  
;br. IN NS  
  
;; AUTHORITY SECTION:  
br. 172800 IN NS f.dns.br.  
br. 172800 IN NS d.dns.br.  
br. 172800 IN NS b.dns.br.  
br. 172800 IN NS e.dns.br.  
br. 172800 IN NS a.dns.br.  
br. 172800 IN NS c.dns.br.  
  
;; ADDITIONAL SECTION:  
f.dns.br. 172800 IN A 200.219.159.10  
f.dns.br. 172800 IN AAAA 2001:12f8:c::10  
d.dns.br. 172800 IN A 200.219.154.10  
d.dns.br. 172800 IN AAAA 2001:12f8:4::10  
b.dns.br. 172800 IN A 200.189.41.10  
b.dns.br. 172800 IN AAAA 2001:12f8:8::10  
e.dns.br. 172800 IN A 200.229.248.10  
e.dns.br. 172800 IN AAAA 2001:12f8:2::10  
a.dns.br. 172800 IN A 200.219.148.10  
a.dns.br. 172800 IN AAAA 2001:12f8:6::10  
c.dns.br. 172800 IN A 200.192.233.10
```

```
Atividades Terminal 25 de set 23:47 higor@Butinho: ~
;; NSU SIZE 10000 333
higor@Butinho:~$ dig @a.dns.br usp.br NS
; <<>> DiG 9.18.30-0ubuntu0.20.04.2-Ubuntu <<>> @a.dns.br usp.br NS
; (2 servers found)
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 28483
;; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 4, ADDITIONAL: 8
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
; COOKIE: 61845469889c461e0100000068d5feaae1af09e3f868ffe1 (good)
;; QUESTION SECTION:
;usp.br.                                IN      NS

;; AUTHORITY SECTION:
usp.br.      3600    IN      NS      a.dns.usp.br.
usp.br.      3600    IN      NS      b.dns.usp.br.
usp.br.      3600    IN      NS      c.dns.usp.br.
usp.br.      3600    IN      NS      ns1.ansp.br.

;; ADDITIONAL SECTION:
a.dns.usp.br. 3600    IN      AAAA    2001:12d0:c000::208
b.dns.usp.br. 3600    IN      AAAA    2001:12d0:c080::208
ns1.ansp.br.  3600    IN      AAAA    2001:12d0:80:30::2
a.dns.usp.br. 3600    IN      A       200.144.248.208
b.dns.usp.br. 3600    IN      A       200.144.249.208
c.dns.usp.br. 3600    IN      A       177.90.0.18
ns1.ansp.br.  3600    IN      A       143.108.30.90

;; Query time: 24 msec
;; SERVER: 2001:12f8:6::10#53(a.dns.br) (UDP)
;; WHEN: Thu Sep 25 23:47:06 -03 2025
;; MSG SIZE 10000 333
```

```
Atividades Terminal 25 de set 23:47 higor@Butinho: ~  
b.dns.usp.br. 3600 IN A 200.144.249.208  
c.dns.usp.br. 3600 IN A 177.90.0.18  
ns1.ansp.br. 3600 IN A 143.108.30.90  
;; Query time: 24 msec  
;; SERVER: 2001:12f8:0::10#53(a.dns.br) (UDP)  
;; WHEN: Thu Sep 25 23:47:06 -03 2025  
;; MSG SIZE rcvd: 286  
higor@Butinho:~$ dig @a.dns.usp.br usp.br A  
;; BADCOOKIE, retrying.  
; <<>> DiG 9.18.30-Ubuntu0.20.04.2-Ubuntu <<>> @a.dns.usp.br usp.br A  
; (2 servers found)  
;; global options: +cmd  
;; Got answer:  
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 54371  
;; flags: qr aa rd; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1  
;; WARNING: recursion requested but not available  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 1232  
; COOKIE: f6f1a067799effe60100000068d5fecc35279a569bf28b37 (good)  
;; QUESTION SECTION:  
;usp.br. IN A  
;; ANSWER SECTION:  
usp.br. 300 IN A 200.144.235.134  
;; Query time: 28 msec  
;; SERVER: 2001:12d0:c000::208#53(a.dns.usp.br) (UDP)  
;; WHEN: Thu Sep 25 23:47:41 -03 2025  
;; MSG SIZE rcvd: 79  
higor@Butinho:~$
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Atividades Terminal 25 de set 23:49 higor@Butinho: ~  
;  
(2 servers found)  
;; global options: +cmd  
;; Got answer:  
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 54371  
;; flags: qr aa rd; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1  
;; WARNING: recursion requested but not available  
;  
;; OPT PSEUDOSECTION:  
;; EDNS: version: 0, flags:; udp: 1232  
;; COOKIE: f6f1a067799effe60100000068d5fecc35279a569bf28b37 (good)  
;; QUESTION SECTION:  
;usp.br. IN A  
;  
;; ANSWER SECTION:  
usp.br. 300 IN A 200.144.235.134  
;  
;; Query time: 28 msec  
;; SERVER: 2001:12d0:c000::208#53(a.dns.usp.br) (UDP)  
;; WHEN: Thu Sep 25 23:47:41 -03 2025  
;; MSG SIZE rcvd: 79  
higor@Butinho:~$ telnet 200.144.235.134 80  
Trying 200.144.235.134...  
Connected to 200.144.235.134.  
Escape character is '^]'.  
GET / HTTP/1.1  
Host: usp.br  
Connection: close  
  
HTTP/1.1 301 Moved Permanently  
Location: https://usp.br:443/  
Content-Length: 98  
Content-Type: text/html  
  
<head><title>Object moved permanently</title></head><body><h1>Object Moved Permanently</h1></body>
```