

2. Wireshark. Работа с DNS

A. Утилита nslookup

```
eartser@eartser:~$ nslookup www.osaka-u.ac.jp
Server:
127.0.0.53
Address:
127.0.0.53#53

Non-authoritative answer:
Name: www.osaka-u.ac.jp
Address: 133.1.138.1

eartser@eartser:~$ nslookup -type=ns ethz.ch
Server:
127.0.0.53
Address:
127.0.0.53#53

Non-authoritative answer:
ethz.ch nameserver = ns1.ethz.ch.
ethz.ch nameserver = ns2.ethz.ch.

Authoritative answers can be found from:

eartser@eartser:~$ nslookup www.thetimes.co.uk
Server:
127.0.0.53
Address:
127.0.0.53#53

Non-authoritative answer:
Name: www.thetimes.co.uk
Address: 143.204.98.117
Name: www.thetimes.co.uk
Address: 143.204.98.80
Name: www.thetimes.co.uk
Address: 143.204.98.52
Name: www.thetimes.co.uk
Address: 143.204.98.78

eartser@eartser:~$ nslookup spbu.ru
Server:
127.0.0.53
Address:
127.0.0.53#53

Non-authoritative answer:
Name: spbu.ru
Address: 82.202.190.112
```

Б. DNS-трассировка www.ietf.org

Ip.addr == 192.168.1.107					
No.	Time	Source	Destination	Protocol	Length/Info
26	3.6513207...	192.168.1.107	173.194.220.139	UDP	75 53690 → 443 Len=33
27	3.6572450...	173.194.220.139	192.168.1.107	UDP	67 443 ← 53690 Len=25
28	3.7568761...	192.168.1.107	192.168.1.1	DNS	83 Standard query 0x951b A www.ietf.org OPT
29	3.7715312...	192.168.1.1	192.168.1.107	DNS	160 Standard query response 0x951b A www.ietf.org CN...
30	3.7721913...	192.168.1.107	104.16.44.99	TCP	74 48012 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 ...
31	3.7858113...	104.16.44.99	192.168.1.107	TCP	66 80 ← 48012 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=...
32	3.7858876...	192.168.1.107	104.16.44.99	TCP	54 48012 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0
33	3.7862468...	192.168.1.107	104.16.44.99	HTTP	475 GET / HTTP/1.1
35	3.8044639...	104.16.44.99	192.168.1.107	TCP	54 80 ← 48012 [ACK] Seq=1 Ack=422 Win=68008 Len=0
36	3.8152753...	104.16.44.99	192.168.1.107	HTTP	357 HTTP/1.1 301 Moved Permanently
37	3.8152963...	192.168.1.107	104.16.44.99	TCP	54 48012 → 80 [ACK] Seq=422 Ack=384 Win=64128 Len=0
38	3.8156437...	192.168.1.107	104.16.44.99	TCP	74 48012 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 ...
39	3.8321133...	104.16.44.99	192.168.1.107	TCP	66 443 ← 46172 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=...
40	3.8321829...	192.168.1.107	104.16.44.99	TCP	54 46172 → 443 [ACK] Seq=1 Ack=1 Win=64256 Len=0
41	3.8321829...	192.168.1.107	104.16.44.99	TCP	54 46172 → 443 [ACK] Seq=1 Ack=1 Win=64256 Len=0
* Frame 28: 83 bytes on wire (664 bits), 83 bytes captured (664 bits) on interface wlx037453911bd, id 0					
* Ethernet II, Src: Tp-LinkT_39:11:bd (d0:37:45:39:11:bd), Dst: 60:a4:b7:61:23:00 (60:a4:b7:61:23:00)					
* Internet Protocol Version 4, Src: 192.168.1.107, Dst: 192.168.1.1					
* User Datagram Protocol, Src Port: 39583, Dst Port: 53					
* Domain Name System (query)					
Transaction ID: 0x951b					
* Flags: 0x0100 Standard query					
Questions: 1					
Answer RRs: 0					
Authority RRs: 0					
Additional RRs: 1					
* Queries					
* www.ietf.org: type A, class IN					
* Additional records					
* <Root>: type OPT					
Name: <Root>					
Type: OPT (41)					
UDP payload size: 512					
Higher bits in extended RCODE: 0x00					
EDNS0 version: 0					
Z: 0x0000					
0... .. = DO bit: Cannot handle DNSSEC security RRs					
..000 0000 0000 = Reserved: 0x0000					
Data length: 0					
[Response in: 29]					

Ip.addr == 192.168.1.107					
No.	Time	Source	Destination	Protocol	Length/Info
26	3.6513207...	192.168.1.107	173.194.220.139	UDP	75 53690 → 443 Len=33
27	3.6572450...	173.194.220.139	192.168.1.107	UDP	67 443 ← 53690 Len=25
28	3.7568761...	192.168.1.107	192.168.1.1	DNS	83 Standard query 0x951b A www.ietf.org OPT
29	3.7715312...	192.168.1.1	192.168.1.107	DNS	160 Standard query response 0x951b A www.ietf.org CN...
30	3.7721913...	192.168.1.107	104.16.44.99	TCP	74 48012 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 ...
31	3.7858113...	104.16.44.99	192.168.1.107	TCP	66 80 ← 48012 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=...
32	3.7858876...	192.168.1.107	104.16.44.99	TCP	54 48012 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0
33	3.7862468...	192.168.1.107	104.16.44.99	HTTP	475 GET / HTTP/1.1
35	3.8044639...	104.16.44.99	192.168.1.107	TCP	54 80 ← 48012 [ACK] Seq=1 Ack=422 Win=68008 Len=0
36	3.8152753...	104.16.44.99	192.168.1.107	HTTP	357 HTTP/1.1 301 Moved Permanently
37	3.8152963...	192.168.1.107	104.16.44.99	TCP	54 48012 → 80 [ACK] Seq=422 Ack=384 Win=64128 Len=0
38	3.8156437...	192.168.1.107	104.16.44.99	TCP	74 48012 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 ...
39	3.8321133...	104.16.44.99	192.168.1.107	TCP	66 443 ← 46172 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=...
40	3.8321829...	192.168.1.107	104.16.44.99	TCP	54 46172 → 443 [ACK] Seq=1 Ack=1 Win=64256 Len=0
41	3.8321829...	192.168.1.107	104.16.44.99	TCP	54 46172 → 443 [ACK] Seq=1 Ack=1 Win=64256 Len=0
Transaction ID: 0x951b					
* Flags: 0x0100 Standard query response, No error					
Questions: 1					
Answer RRs: 3					
Authority RRs: 0					
Additional RRs: 1					
* Queries					
* www.ietf.org: type A, class IN					
* <Root>					
* www.ietf.org: type CNAME, class IN, cname www.ietf.org.cdn.cloudflare.net					
Name: www.ietf.org					
Type: CNAME (Canonical NAME for an alias) (5)					
Class: IN (0x0001)					
Time to Live: 1812 (16 minutes, 52 seconds)					
Data length: 33					
CNAME: www.ietf.org.cdn.cloudflare.net					
* www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.16.45.99					
Name: www.ietf.org.cdn.cloudflare.net					
Type: A (Host Address) (1)					
Class: IN (0x0001)					
Time to Live: 82 (1 minute, 22 seconds)					
Data length: 4					
Address: 104.16.45.99					
* www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.16.44.99					
Name: www.ietf.org.cdn.cloudflare.net					
Type: A (Host Address) (1)					
Class: IN (0x0001)					
Time to Live: 82 (1 minute, 22 seconds)					
Data length: 4					
Address: 104.16.44.99					
* Additional records					
[Request in: 28]					
[Time: 0.014055600 seconds]					

1. Запрос и ответ отправлены с помощью протокола UDP.
2. Порт назначения запроса - 53.
3. Запрос отправлен на IP-адрес 192.168.1.1, он совпадает с IP-адресом локального DNS сервера.
4. Запрашивается запись типа A, в запросе не содержатся ответы.
5. В ответном сообщении 3 ответа, в них содержатся CNAME и два IP-адреса.
6. IP-адрес назначения пакета с SYN соответствует второму полученному IP-адресу.
7. Хост не выполняет новых DNS-запросов перед загрузкой изображений.

B. DNS-трассировка www.spbu.ru

ip.addr == 192.168.1.107						ip.addr == 192.168.1.107					
No.	Time	Source	Destination	Protocol	Length Info	No.	Time	Source	Destination	Protocol	Length Info
4	1.379663	192.168.1.107	192.168.1.1	DNS	82 Standard query 0x3007 A www.spbu.ru OPT	4	1.379663	192.168.1.107	192.168.1.1	DNS	82 Standard query 0x3007 A www.spbu.ru OPT
5	1.402563	192.168.1.1	192.168.1.107	DNS	112 Standard query response 0x3007 A www.spbu.ru ...	5	1.402563	192.168.1.1	192.168.1.107	DNS	112 Standard query response 0x3007 A www.spbu.ru ...
6	1.403922	192.168.1.107	192.168.1.1	DNS	78 Standard query 0x4185 AAAA spbu.ru OPT	6	1.403922	192.168.1.107	192.168.1.1	DNS	78 Standard query 0x4185 AAAA spbu.ru OPT
7	1.421413	192.168.1.1	192.168.1.107	DNS	131 Standard query response 0x4185 AAAA spbu.ru S...	7	1.421413	192.168.1.1	192.168.1.107	DNS	131 Standard query response 0x4185 AAAA spbu.ru S...
9	2.455923	192.168.1.107	142.251.1.194	UDP	75 44455 → 443 Len=33	9	2.455923	192.168.1.107	142.251.1.194	UDP	75 44455 → 443 Len=33
10	2.465462	142.251.1.194	192.168.1.107	UDP	68 443 → 44455 Len=26	10	2.465462	142.251.1.194	192.168.1.107	UDP	68 443 → 44455 Len=26
11	4.163946	192.168.1.107	65.9.56.220	TCP	66 37320 → 443 [ACK] Seq=1 Ack=1 Win=501 Len=0 T...	11	4.163946	192.168.1.107	65.9.56.220	TCP	66 37320 → 443 [ACK] Seq=1 Ack=1 Win=501 Len=0 T...
12	4.191354	65.9.56.220	192.168.1.107	TCP	60 [TCP ACKed unseen segment] 443 → 37320 [ACK]	12	4.191354	65.9.56.220	192.168.1.107	TCP	60 [TCP ACKed unseen segment] 443 → 37320 [ACK]
Frame 6: 78 bytes on wire (624 bits), 78 bytes captured (624 bits) on interface wlx037453911bd, id 0						Frame 7: 131 bytes on wire (1048 bits), 131 bytes captured (1048 bits) on interface wlx037453911bd, id 0					
Ethernet II, Src: Tp-LinkT_39:11:bd (d0:37:45:39:11:bd), Dst: 60:a4:b7:61:23:00 (60:a4:b7:61:23:00)						Ethernet II, Src: 60:a4:b7:61:23:00 (60:a4:b7:61:23:00), Dst: Tp-LinkT_39:11:bd (d0:37:45:39:11:bd)					
Internet Protocol Version 4, Src: 192.168.1.107, Dst: 192.168.1.1						Internet Protocol Version 4, Src: 192.168.1.1, Dst: 192.168.1.107					
User Datagram Protocol, Src Port: 43348, Dst Port: 53						User Datagram Protocol, Src Port: 53, Dst Port: 43348					
Domain Name System (query)						Domain Name System (response)					
Transaction ID: 0x4185						Transaction ID: 0x4185					
Flags: 0x0100 Standard query						Flags: 0x0180 Standard query response, No error					
Questions: 1						Questions: 1					
Answer RRs: 0						Answer RRs: 0					
Authority RRs: 0						Authority RRs: 1					
Additional RRs: 1						Additional RRs: 1					
Queries						Queries					
spbu.ru: type AAAA, class IN						spbu.ru: type AAAA, class IN					
Additional records						Additional records					
[Response In: 7]						[Request In: 6]					
						[Time: 0.017490798 seconds]					

1. Порт назначения в DNS-запросе и порт источника в DNS-ответе - 53.
2. Запрос отправлен на IP-адрес 192.168.1.1, он совпадает с IP-адресом локального DNS сервера.
3. Запрашивается запись типа AAAA, в запросе не содержатся ответы.
4. В ответном сообщении нет ответов, но есть Authoritative nameservers, в котором содержится следующая информация:

```
Authoritative nameservers
- spbu.ru: type SOA, class IN, mname ns.pu.ru
  Name: spbu.ru
  Type: SOA (Start Of a zone of Authority) (6)
  Class: IN (0x0001)
  Time to live: 1416 (23 minutes, 36 seconds)
  Data length: 41
  Primary name server: ns.pu.ru
  Responsible authority's mailbox: hostmaster.pu.ru
  Serial Number: 2022012028
  Refresh Interval: 7200 (2 hours)
  Retry Interval: 3600 (1 hour)
  Expire limit: 604800 (7 days)
  Minimum TTL: 3600 (1 hour)
```

Г. DNS-трассировка nslookup –type=NS

ip.addr == 192.168.1.107						ip.addr == 192.168.1.107					
No.	Time	Source	Destination	Protocol	Length Info	No.	Time	Source	Destination	Protocol	Length Info
4	2.659022	192.168.1.107	192.168.1.1	DNS	78 Standard query 0x7d66 NS spbu.ru OPT	4	2.659022	192.168.1.107	192.168.1.1	DNS	78 Standard query 0x7d66 NS spbu.ru OPT
5	2.669888	192.168.1.1	192.168.1.107	DNS	134 Standard query response 0x7d66 NS spbu.ru NS ...	5	2.669888	192.168.1.1	192.168.1.107	DNS	134 Standard query response 0x7d66 NS spbu.ru NS ...
6	2.738490	192.168.1.107	77.88.21.119	TCP	66 37266 → 443 [ACK] Seq=1 Ack=1 Win=1266 Len=0 ...	6	2.738490	192.168.1.107	77.88.21.119	TCP	66 37266 → 443 [ACK] Seq=1 Ack=1 Win=1266 Len=0 ...
7	2.753272	77.88.21.119	192.168.1.107	TCP	66 [TCP ACKed unseen segment] 443 → 37266 [ACK]	7	2.753272	77.88.21.119	192.168.1.107	TCP	66 [TCP ACKed unseen segment] 443 → 37266 [ACK]
9	5.152062	142.251.1.194	192.168.1.107	UDP	88 443 → 44455 Len=38	9	5.152062	142.251.1.194	192.168.1.107	UDP	88 443 → 44455 Len=38
10	5.154340	192.168.1.107	142.251.1.194	UDP	75 44455 → 443 Len=33	10	5.154340	192.168.1.107	142.251.1.194	UDP	75 44455 → 443 Len=33
Frame 4: 78 bytes on wire (624 bits), 78 bytes captured (624 bits) on interface wlx037453911bd, id 0						Frame 5: 134 bytes on wire (1072 bits), 134 bytes captured (1072 bits) on interface wlx037453911bd, id 0					
Ethernet II, Src: Tp-LinkT_39:11:bd (d0:37:45:39:11:bd), Dst: 60:a4:b7:61:23:00 (60:a4:b7:61:23:00)						Ethernet II, Src: 60:a4:b7:61:23:00 (60:a4:b7:61:23:00), Dst: Tp-LinkT_39:11:bd (d0:37:45:39:11:bd)					
Internet Protocol Version 4, Src: 192.168.1.107, Dst: 192.168.1.1						Internet Protocol Version 4, Src: 192.168.1.1, Dst: 192.168.1.107					
User Datagram Protocol, Src Port: 35335, Dst Port: 53						User Datagram Protocol, Src Port: 53, Dst Port: 35335					
Domain Name System (query)						Domain Name System (response)					
Transaction ID: 0x7d66						Transaction ID: 0x7d66					
Flags: 0x0100 Standard query						Flags: 0x0180 Standard query response, No error					
Questions: 1						Questions: 1					
Answer RRs: 0						Answer RRs: 0					
Authority RRs: 0						Authority RRs: 1					
Additional RRs: 1						Additional RRs: 1					
Queries						Queries					
spbu.ru: type NS, class IN						spbu.ru: type NS, class IN					
Additional records						Additional records					
<Root>: type OPT						<Root>: type OPT					
Name: <Root>						Name: <Root>					
Type: OPT (41)						Type: OPT (41)					
UDP payload size: 512						UDP payload size: 512					
Higher bits in extended RCODE: 0x00						Higher bits in extended RCODE: 0x00					
EDNS0 version: 0						EDNS0 version: 0					
- Z: 0x0000						- Z: 0x0000					
0 = DO bit: Cannot handle DNSSEC security RRs						0 = DO bit: Cannot handle DNSSEC security RRs					
.0000 0000 0000 0000 = Reserved: 0x0000						.0000 0000 0000 0000 = Reserved: 0x0000					
Data length: 0						Data length: 0					
[Response In: 5]						[Request In: 4]					
						[Time: 0.01605915 seconds]					

1. Запрос отправлен на IP-адрес 192.168.1.1, он совпадает с IP-адресом локального DNS сервера.
2. Запрашивается запись типа NS, в запросе не содержатся ответы.
3. В ответах содержатся имена следующих DNS-серверов: ns2.pu.ru, ns7.spbu.ru, ns.pu.ru. Их адреса в ответе не содержатся.

Д. DNS-трассировка nslookup www.spbu.ru ns2.pu.ru

ip.addr == 192.168.1.107							ip.addr == 192.168.1.107						
No.	Time	Source	Destination	Protocol	Length	Info	No.	Time	Source	Destination	Protocol	Length	Info
4	1.628594	192.168.1.107	64.233.102.100	TCP	66	34690 → 5220 [ACK] Seq=1 Ack=1 Win=501 Len=0	4	1.628594	192.168.1.107	64.233.102.100	TCP	66	34690 → 5220 [ACK] Seq=1 Ack=1 Win=501 Len=0
5	1.629740	64.233.102.100	192.168.1.107	TCP	66	ICP ACKed unseen segment] 5220 → 34690 [ACK]	5	1.629740	64.233.102.100	192.168.1.107	TCP	66	ICP ACKed unseen segment] 5220 → 34690 [ACK]
8	1.716682	192.168.1.107	224.0.0.22	IGMP	54	Membership Report / Join group 224.0.0.251 for 224.0.0.251	8	1.716682	192.168.1.107	224.0.0.22	IGMP	54	Membership Report / Join group 224.0.0.251 for 224.0.0.251
10	2.465358	192.168.1.107	192.168.1.1	DNS	88	Standard query 0x6224 A ns2.pu.ru OPT	10	2.465358	192.168.1.107	192.168.1.1	DNS	88	Standard query 0x6224 A ns2.pu.ru OPT
11	2.465451	192.168.1.107	192.168.1.1	DNS	88	Standard query 0x3db4 AAAA ns2.pu.ru OPT	11	2.465451	192.168.1.107	192.168.1.1	DNS	88	Standard query 0x3db4 AAAA ns2.pu.ru OPT
12	2.488643	192.168.1.1	192.168.1.107	DNS	138	Standard query response 0x3db4 AAAA ns2.pu.ru...	12	2.488643	192.168.1.1	192.168.1.107	DNS	138	Standard query response 0x3db4 AAAA ns2.pu.ru...
13	2.498869	192.168.1.1	192.168.1.107	DNS	96	Standard query response 0x6224 A ns2.pu.ru A...	13	2.498869	192.168.1.1	192.168.1.107	DNS	96	Standard query response 0x6224 A ns2.pu.ru A...
14	2.493931	192.168.1.107	195.70.196.210	DNS	71	Standard query 0xa7fa A www.spbu.ru	14	2.493931	192.168.1.107	195.70.196.210	DNS	71	Standard query 0xa7fa A www.spbu.ru
15	2.519749	195.70.196.210	192.168.1.107	DNS	285	Standard query response 0xa7fa A www.spbu.ru...	15	2.519749	195.70.196.210	192.168.1.107	DNS	285	Standard query response 0xa7fa A www.spbu.ru...
16	2.521275	192.168.1.107	195.70.196.210	DNS	67	Standard query 0xb15b AAAA spbu.ru	16	2.521275	192.168.1.107	195.70.196.210	DNS	67	Standard query 0xb15b AAAA spbu.ru
17	2.543179	195.70.196.210	192.168.1.107	DNS	128	Standard query response 0xb15b AAAA spbu.ru S...	17	2.543179	195.70.196.210	192.168.1.107	DNS	128	Standard query response 0xb15b AAAA spbu.ru S...
18	2.781093	192.168.1.107	142.251.1.194	UDP	75	44455 → 443 Len=53	18	2.781093	192.168.1.107	142.251.1.194	UDP	75	44455 → 443 Len=53
19	2.792018	142.251.1.194	192.168.1.107	UDP	68	443 → 44455 Len=26	19	2.792018	142.251.1.194	192.168.1.107	UDP	68	443 → 44455 Len=26
Frame 16: 67 bytes on wire (536 bits), 67 bytes captured (536 bits) on interface wlx0937453911bd, id 0							Frame 17: 128 bytes on wire (960 bits), 120 bytes captured (960 bits) on interface wlx0937453911bd, id 0						
Ethernet II, Src: Tp-LinkT_39:11:bd (d0:37:45:39:11:bd), Dst: 60:a4:b7:61:23:00 (60:a4:b7:61:23:00)							Ethernet II, Src: 60:a4:b7:61:23:00 (60:a4:b7:61:23:00), Dst: Tp-LinkT_39:11:bd (d0:37:45:39:11:bd)						
Internet Protocol Version 4, Src: 192.168.1.107, Dst: 195.70.196.210							Internet Protocol Version 4, Src: 195.70.196.210, Dst: 192.168.1.107						
User Datagram Protocol, Src Port: 48291, Dst Port: 53							User Datagram Protocol, Src Port: 53, Dst Port: 48291						
Domain Name System (query)							Domain Name System (response)						
Transaction ID: 0xb15b							Transaction ID: 0xb15b						
Flags: 0x8100 Standard query							Flags: 0x8000 Standard query response, No error						
Questions: 1							Questions: 1						
Answer RRs: 0							Answer RRs: 0						
Authority RRs: 0							Authority RRs: 1						
Additional RRs: 0							Additional RRs: 0						
Queries							Queries						
spbu.ru: type AAAA, class IN							Authoritative nameservers						
[Response In: 17]							[Request In: 16]						
							[Time: 0.021903805 seconds]						

1. Запрос отправлен на IP-адрес 195.70.196.210, он не совпадает с IP-адресом локального DNS сервера, он принадлежит ns2.pu.ru.
2. Запрашивается запись типа AAAA, в запросе не содержатся ответы.
3. В ответном сообщении нет ответов, но есть Authoritative nameservers, в котором содержится аналогичная заданию В информация.

Е. Сервисы whois

whois – это база данных, в которой хранятся сведения о доменах. В ней можно найти следующую информацию:

- контактные данные регистранта, администратора и технических специалистов;
- сведения о спонсирующем регистраторе;
- дату создания и обновления домена, а также срок его регистрации;
- DNS-серверы и статус домена.

Для получения имен DNS-серверов я использовала whois сервис NS Lookup на dnschecker.org.

Result for: ZORITYUMENI.RU

Download Records

NS

Type	Domain Name	NS	TTL
NS	zorityumeni.ru	ns2.reg.ru. (176.99.13.12) <div><div>Owner: Domain Names Registrar Reg.ru Ltd WHOIS AS197695</div><div>IP blocked by xbl.spamhaus.org More</div></div>	20884
NS	zorityumeni.ru	ns1.reg.ru. (176.99.13.17) <div><div>Owner: Domain Names Registrar Reg.ru Ltd WHOIS AS197695</div><div>IP blocked by xbl.spamhaus.org More</div></div>	20884

earlser@earlser:~\$ nslookup zorityumeni.ru

Server: 127.0.0.53

Address: 127.0.0.53#53

Non-authoritative answer:

Name: zorityumeni.ru

Address: 194.58.112.173

Name: zorityumeni.ru

Address: 2a00:f940:4::9

earlser@earlser:~\$ nslookup zorityumeni.ru ns2.reg.ru

Server: ns2.reg.ru

Address: 176.99.13.14#53

Name: zorityumeni.ru

Address: 194.58.112.173

Name: zorityumeni.ru

Address: 2a00:f940:4::9

earlser@earlser:~\$ nslookup zorityumeni.ru ns1.reg.ru

Server: ns1.reg.ru

Address: 194.67.73.73#53

Name: zorityumeni.ru

Address: 194.58.112.173

Name: zorityumeni.ru

Address: 2a00:f940:4::9