

```
; <<> DIG 9.6.o-APPLE-P2 <<> +norec +trace www.expedia.com
;; global options: +cmd
. 514900 IN NS b.root-servers.net.
. 514900 IN NS h.root-servers.net.
. 514900 IN NS f.root-servers.net.
. 514900 IN NS g.root-servers.net.
. 514900 IN NS k.root-servers.net.
. 514900 IN NS e.root-servers.net.
. 514900 IN NS a.root-servers.net.
. 514900 IN NS i.root-servers.net.
. 514900 IN NS c.root-servers.net.
. 514900 IN NS l.root-servers.net.
. 514900 IN NS m.root-servers.net.
. 514900 IN NS j.root-servers.net.
. 514900 IN NS d.root-servers.net.
;; Received 228 bytes from 192.168.1.1#53(192.168.1.1) in 14 ms
```

```
com. 172800 IN NS h.gtld-servers.net.
com. 172800 IN NS d.gtld-servers.net.
com. 172800 IN NS g.gtld-servers.net.
com. 172800 IN NS b.gtld-servers.net.
com. 172800 IN NS e.gtld-servers.net.
com. 172800 IN NS f.gtld-servers.net.
com. 172800 IN NS a.gtld-servers.net.
com. 172800 IN NS m.gtld-servers.net.
com. 172800 IN NS c.gtld-servers.net.
com. 172800 IN NS j.gtld-servers.net.
com. 172800 IN NS i.gtld-servers.net.
com. 172800 IN NS l.gtld-servers.net.
com. 172800 IN NS k.gtld-servers.net.
;; Received 505 bytes from 192.203.230.10#53(c.root-servers.net) in 38 ms
```

```
expedia.com. 172800 IN NS pdns3.ultradns.org.
expedia.com. 172800 IN NS pdns4.ultradns.org.
expedia.com. 172800 IN NS pdns1.ultradns.net.
expedia.com. 172800 IN NS pdns2.ultradns.net.
expedia.com. 172800 IN NS pdns5.ultradns.info.
expedia.com. 172800 IN NS pdns6.ultradns.co.uk.
;; Received 236 bytes from 192.55.83.30#53(m.gtld-servers.net) in 204 ms
```

```
www.expedia.com. 900 IN CNAME www.expedia.com.edgekey.net.
;; Received 74 bytes from 199.7.68.1#53(pdns3.ultradns.org) in 29 ms
```

We are not done yet. I have now to query www.expedia.com.edgekey.net and because we switched from .COM domain to .NET domain we have to hit back the root servers again:

```
; <<> DIG 9.6.o-APPLE-P2 <<> +norec +trace www.expedia.com.edgekey.net
;; global options: +cmd
. 518216 IN NS j.root-servers.net.
. 518216 IN NS m.root-servers.net.
. 518216 IN NS a.root-servers.net.
. 518216 IN NS i.root-servers.net.
. 518216 IN NS b.root-servers.net.
. 518216 IN NS k.root-servers.net.
. 518216 IN NS c.root-servers.net.
. 518216 IN NS l.root-servers.net.
. 518216 IN NS e.root-servers.net.
. 518216 IN NS g.root-servers.net.
. 518216 IN NS f.root-servers.net.
. 518216 IN NS d.root-servers.net.
. 518216 IN NS h.root-servers.net.
;; Received 228 bytes from 192.168.1.1#53(192.168.1.1) in 19 ms
```

```
net. 172800 IN NS a.gtld-servers.net.
net. 172800 IN NS e.gtld-servers.net.
net. 172800 IN NS c.gtld-servers.net.
net. 172800 IN NS l.gtld-servers.net.
net. 172800 IN NS j.gtld-servers.net.
net. 172800 IN NS d.gtld-servers.net.
net. 172800 IN NS k.gtld-servers.net.
net. 172800 IN NS m.gtld-servers.net.
net. 172800 IN NS f.gtld-servers.net.
net. 172800 IN NS g.gtld-servers.net.
net. 172800 IN NS h.gtld-servers.net.
net. 172800 IN NS b.gtld-servers.net.
net. 172800 IN NS i.gtld-servers.net.
;; Received 498 bytes from 192.33.4.12#53(c.root-servers.net) in 14 ms
```

```
edgekey.net. 172800 IN NS ns1-2.akam.net.
edgekey.net. 172800 IN NS ns1-137.akam.net.
edgekey.net. 172800 IN NS usw6.akam.net.
edgekey.net. 172800 IN NS use9.akam.net.
edgekey.net. 172800 IN NS adns1.akam.net.
edgekey.net. 172800 IN NS adns2.akam.net.
edgekey.net. 172800 IN NS adns3.akam.net.
edgekey.net. 172800 IN NS adns4.akam.net.
;; Received 338 bytes from 192.52.178.30#53(k.gtld-servers.net) in 181 ms
```

```
www.expedia.com.edgekey.net. 21600 IN CNAME e3060.b.akamaiedge.net.
;; Received 78 bytes from 64.211.42.196#53(adns3.akam.net) in 51 ms
```

We are still not done yet. Now we need to resolve e3060.b.akamaiedge.net

```
; <<> DIG 9.6.o-APPLE-P2 <<> +norec +trace e3060.b.akamaiedge.net
;; global options: +cmd
. 518143 IN NS j.root-servers.net.
. 518143 IN NS m.root-servers.net.
. 518143 IN NS a.root-servers.net.
. 518143 IN NS i.root-servers.net.
. 518143 IN NS b.root-servers.net.
. 518143 IN NS k.root-servers.net.
. 518143 IN NS c.root-servers.net.
. 518143 IN NS l.root-servers.net.
. 518143 IN NS e.root-servers.net.
. 518143 IN NS g.root-servers.net.
. 518143 IN NS f.root-servers.net.
. 518143 IN NS d.root-servers.net.
```

.518143 IN NS h.root-servers.net.
;; Received 228 bytes from 192.168.1.1#53(192.168.1.1) in 18 ms

net.172800 IN NS e.gld-servers.net.
net.172800 IN NS h.gld-servers.net.
net.172800 IN NS d.gld-servers.net.
net.172800 IN NS m.gld-servers.net.
net.172800 IN NS i.gld-servers.net.
net.172800 IN NS c.gld-servers.net.
net.172800 IN NS f.gld-servers.net.
net.172800 IN NS b.gld-servers.net.
net.172800 IN NS a.gld-servers.net.
net.172800 IN NS g.gld-servers.net.
net.172800 IN NS k.gld-servers.net.
net.172800 IN NS l.gld-servers.net.
net.172800 IN NS j.gld-servers.net.
;; Received 509 bytes from 192.33.4.12#53(c.root-servers.net) in 22 ms

akamaiedge.net.172800 IN NS la1.akamaiedge.net.
akamaiedge.net.172800 IN NS la6.akamaiedge.net.
akamaiedge.net.172800 IN NS la7.akamaiedge.net.
akamaiedge.net.172800 IN NS la2.akamaiedge.net.
akamaiedge.net.172800 IN NS la3.akamaiedge.net.
akamaiedge.net.172800 IN NS lar7.akamaiedge.net.
akamaiedge.net.172800 IN NS lar6.akamaiedge.net.
akamaiedge.net.172800 IN NS lac1.akamaiedge.net.
akamaiedge.net.172800 IN NS la11.akamaiedge.net.
akamaiedge.net.172800 IN NS lar2.akamaiedge.net.
;; Received 386 bytes from 192.35.51.30#53(f.gld-servers.net) in 13 ms

b.akamaiedge.net.3600 IN NS n5b.akamaiedge.net.
b.akamaiedge.net.1800 IN NS n3b.akamaiedge.net.
b.akamaiedge.net.2700 IN NS n7b.akamaiedge.net.
b.akamaiedge.net.3600 IN NS n2b.akamaiedge.net.
b.akamaiedge.net.1800 IN NS nob.akamaiedge.net.
b.akamaiedge.net.2700 IN NS n1b.akamaiedge.net.
b.akamaiedge.net.2700 IN NS n4b.akamaiedge.net.
b.akamaiedge.net.1800 IN NS n6b.akamaiedge.net.
;; Received 312 bytes from 193.108.88.1#53(lac1.akamaiedge.net) in 102 ms

ec3060.b.akamaiedge.net.20 IN A 184.85.76.137
;; Received 56 bytes from 204.2.166.155#53(n4b.akamaiedge.net) in 25 ms
Ok Now my browser knows where www.expedia.com is : 184.85.76.137