

### Lab 7.1:





```
(nam@kali)-[~]
$ dig +dnssec dnskey arin.net.
;; Truncated, retrying in TCP mode.

; <>> DiG 9.18.1-1-Debian <>> +dnssec dnskey arin.net.
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 8684
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
;arin.net.           IN      DNSKEY

;; ANSWER SECTION:
arin.net.          1053    IN      DNSKEY  256 3 8 AwEAAbg0H2vDQGSKrr3UGGyw1/FLPQz//PcU12Bw/JaPAgXTZ0vKvAR5 dV+gBqUGA0RKADnYo73hTSgSXHFYtUr1Zp+k1XXPw0F
a99A0Mu/HFL+p rPHSCMUf0RMu8zrj+ABdhj73QkxrFe56P38rUc57FFlJRCPnnC05Fyv xSEBaJDH
arin.net.          1053    IN      DNSKEY  256 3 8 AwEAAdE/nD9LdBiFrM5LsaUFizR400eLs14b0Qx8eV8sSb8TuGXkdwJv 4J5oC4ZI1e6/O6cWXFY3jTOYFxuksRCBZdlSUbD690H
AQ+kuRn5VR4ya HS/9lMWqyhESVx1St6bjnPHAf0p3WJR7For56J0Fik8A9uNLtbnGKOE_ /WxEPL
arin.net.          1053    IN      DNSKEY  257 3 8 AwEAACYoXTu6adcY+FKpq12FRoubVYL2aZBrzDLR6178gqq/5VQzdbx V4NQya6KyZZZ3XL7bOL3C1QkLNpq0IyIs7fjwSxeZL
EncARe9Cr55q KisjzvwONWw5zk/ZPchtaCzgSMuzr0GdpY50kDPirxiE1WTdTAdUy3 X10XG48Bp0FpbWgGe4os00mioZfw1hnKni0ER8YdgCiCtj+i91W- 4mcSv2MhWn3AbGmm+dt+r+d0fxLe
YzvCWoq6TLyLfFcQq8oN5j2PVon nAXMoFCG2pG8ektp28oN8MEjmjCVvrtTpcNsxeCNKz/1Ln5ekJkiA350 THZUVu65Quu=
arin.net.          1053    IN      DNSKEY  257 3 8 AwEAAdILJ3DRGdyah+6RKnmkUpvc./c7M9v/28xRKYfGsnrEpmEnpM87 vZrs5Vq98ALpI40Y6dVai5EmuSuramvnI1AbY5JCIT
F8ZNX07yCuA61 4yxQFr1JTQMAYaxv5G0NORD1k5cEJjeDHS/QA29jm/cwbYGB03Xbj1FA R8yPOCjMf3Ns1azj5F+Cu1azfTN2ordYyOva6gpa0dnqhdmlBDb0p96 UXQgIbuUU7zLFNKdit09H0cqw0N6
xaJH6iNRskaz6wSL3wQsE0Cwd0z2 0w5Evhv3EQWQFHUPMMEBSpAi9LkZc0/bgrorznq3ktALr8Elvrij0r vMGIZzmftd0-
arin.net.          1053    IN      RRSIG   DNSKEY 8 2 43200 20240418164541 20240404154541 26139 arin.net. NtjzwlsSD03+5vcasvxa/8f1aaapg42t5/mgJfZMfkKh
FzsfesLt5Rs 0bSUerbWdEFsNHTqfKYHMxMRvSVWzgWc/WlgvuhHQ02y4vjt5xWQkwc1iVplulPii8Hxs+3H7eH0/FVTaV9enPaKAM/gwGmatpExc3eHSwqCX clo=
arin.net.          1053    IN      RRSIG   DNSKEY 8 2 43200 20240418164541 20240404154541 50716 arin.net. nQaQ19NoRJTOV5ictsp+g7QCqT60VEVsbfLiWwX6jD10
7ycRlpPjzLw 3G62v7Cm7Kcw7oms9xcKIr+ASzRMB0ZrD0MAkC6KpY4YvU+eLvblW07e LapoDVKvtizAcL3ytW1seN/KKFUT1jsDrje6RcgGhNMtJX/hqJjtY 9tyHzWrCRAxGZ0f9IKMza23Py5x40
yHNiYaJ0UcWzijTxfldoAwKnz9 k1ip9syD4kNz1kdWYmxflp981bdvrpa0GtDMixpI/gfRo0tthzuN2Ep 01BEBwa5Hu/w4KohhniNWveh-Y8j9SWR9Jv02hasvabSX0vecsB5A8x= +KZomg=>

;; Query time: 32 msec
;; SERVER: 1.1.1.153(1.1.1.1) (TCP)
;; WHEN: Thu Apr 04 15:37:56 EDT 2024
;; MSG SIZE rcvd: 1349

(nam@kali)-[~]
```



"the quieter you become, the more you are able to hear"

```
(nam@kali)-[~]
$ dig +dnssec ds arin.net.

; <>> Dig 9.18.16-1-Debian <>> +dnssec ds arin.net.
;; global options: +cmd
;; Got answer:
;; -->HEADER<-- opcode: QUERY, status: NOERROR, id: 36511
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
;arin.net.           IN      DS

;; ANSWER SECTION:
arin.net.          86400   IN      DS      50716 8 2 EB708BF25CC3F568B017DA1BFFBD6B31FE4B94B4D89D1C27C1603133 5CE50526
arin.net.          86400   IN      RRSIG   DS 13 2 86400 20240408070243 20240401055243 34730 net. j3ICXG5FxTw5YwMJG98yXBQWYmY+VIobVtBmUa8AqiuG4mnsNo8
K57 1yRETaE8TuStbEFrn5twYBirUD4K4Q==

;; Query time: 28 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Thu Apr  4 15:46:13 EDT 2024
;; MSG SIZE  rcvd: 184

(nam@kali)-[~]
```



KALI LINUX  
"the quieter you become, the more you are able to hear"

```
(nam@kali)-[~]
$ dig +dnssec dnskey net.

; <>> Dig 9.18.16-1-Debian <>> +dnssec dnskey net.
;; global options: +cmd
;; Got answer:
;; -->HEADER<-- opcode: QUERY, status: NOERROR, id: 47049
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
;net.           IN      DNSKEY

;; ANSWER SECTION:
net.          991     IN      DNSKEY 256 3 13 0hdllj5rnAXDXnFtzs7+fwAZNP7D8iMjV9JVar3tKAqFSjvjeI+jEZ/V 53m6SnLYqvNd+Kdy3h+6czGeSJcfnw=
net.          991     IN      DNSKEY 257 3 13 HibOpzDRagrDmUXTSn17jCX6Hx5bzku2jsxMbVI01yS+13EyOghnCi dBXU0bh2gi2w9GhYGacpU6CrtwoFNg=
net.          991     IN      RRSIG   DNSKEY 13 1 86400 20240412141035 20240328140535 37331 net. asI3yrN0s/QXpYRoQ1XNf3GyCStreC6vJ2iyE+Z4TeCOWTtMN
t1kr5TZ hQ9efJ3u7Zbr1hKurdGoCuKQE3Uiqg=>

;; Query time: 24 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Thu Apr  4 15:47:32 EDT 2024
;; MSG SIZE rcvd: 291
```



KALI LINUX  
"the quieter you become, the more you are able to hear"

```
(nam@kali)-[~]
$ dig +dnssec ds net.

; <>> Dig 9.18.16-1-Debian <>> +dnssec ds net.
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NOERROR, id: 29607
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
;net.           IN      DS

;; ANSWER SECTION:
net.          85569   IN      DS    37331 13 2 2F0BEC2D6F79DFBD1D08FD21A3AF92D0E39A4B9EF1E3F4111FFF2824 90DA453B
net.          85569   IN      RRSIG  DS 8 1 86400 20240417190000 202404180000 5613 . NAHuqzTu5ShtD35iJz3/8XZoXutwsVPGCJZkwJKYXSnaRzJoC/bUuQvDW g
v8YNHeEbMdR2M2Acgypmc3545fCh/gs/C0iuSKkyrj723M/slCnNzg KC9zMV1ZKKQ7s+j+7xjXknPFD61tfC1kFcwf8CS6EEeGfzsI3+9ctywmk 5fPfwM+KN1PLLkpEpP5bf3r2KnrxuGG99x0ku9yjk
uShT6Q3afk1AL SxhoIz0DP/KsFFmiMWzrltlWXu8yse4+IIPyuGgx7huSBMz4vDOLIVfd 4u6vZjyk+7lP9Pysav1Au89sQtEhpXXyriPYxOsIL3w24vq7dAFnQvJB Rnx9fw==

;; Query time: 28 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Thu Apr  4 15:48:22 EDT 2024
;; MSG SIZE rcvd: 367

(nam@kali)-[~]
$
```



KALI LINUX  
"the quieter you become, the more you are able to hear"

```
(nam㉿kali)-[~]
$ dig +dnssec dnskey .

; <>> Dig 9.18.16-1-Debian <>> +dnssec dnskey .
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NOERROR, id: 43291
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
IN      DNSKEY

;; ANSWER SECTION:
.          2076    IN      DNSKEY  256 3 8 AwEAAZBALoFImwcJJg9Iu7Vv7ZyLjhtXfv01c9k4vHjOpf9i7U1kKtr BvhnwosOni1sb50gkUayRtMDTUQqv1jMMF4bpkyEtcE5
evCzhhbFlq1co L50Q0ix3mf3m++FvIMA5t2nOwAdqR/luuI1bA1AmSCIJKAUx147dcf0 HYKq3as+dzn02Iah4cWBMVzD0e7PPsFS1AO6gU8EpmlrJ9VMNA09f0yDu q9+d6sw8UUnJRMAFAuPLhuFjUAoU
W0v74Bc9l0tQpbLMz8pX0CDkDX OHyyj6inxsSSNxPdUjeoxI17lQtpSPRTqRHFn5fgj2e+9BVwhnWDQN8k UV5JHZlQIi0=
.          2076    IN      DNSKEY  256 3 8 AwEAeAentCcIEndh2QS5k+pHFq/PKKCwioxxt75d7qNU0uTPMo0Fcte/Nb wDPbocvbZ/eNb5RV/xQdapaJASQ/oDLsqzD0H1+JkHN
uuKc2JLtpMxg4 gLSE4CnRXT2cnTW5IwOREL+zeqzHy680Xy5ngw5kALbevRYRg/q2qFzrtCSQ0kmmyPwgFsgnVYLkwii16oxwEU5yZ6W7npWMxt5z+Qs8d1PNWr- S5axLgJtrWUGI1uFFuZwXYzigrP/
z3o1EfMo9zzU19Lopk0LXX7Ls/d iCKdSedjXTtFa8w0/OKQviuJebfkscsELCTswukVZ1VX5gbafEo2xwNH J9u063wYtaK-
.          2076    IN      DNSKEY  257 3 8 AwEAf5ey196WSVexTBAvkMgJzkkTOiw1vkIbxzeF3 +/4rgW0q7HrxRixHlfLExOLAJr5emLvN7SWXgnLh4+B
5xQlnVz80g8kv ArMtNROxVQucaSnIDd5LKyWBrd2n9WGe2R8PzgCmr3EgVLrjyBXWezF 01LHwVN8ef53rCl/EWgvIWgb9tarpVUDK/b58da+sqqls3eNbuv7pr+e oZG+S+DK6nWeL3c6h5Apxz7LjVc1
uTIdsXvuOLYA4/iLBmSVizuDWfd RUFhHdY6+cnn8HFRm-2M8AnGXws9555KruB85qiyLGa8subx2NnGUwN R1AkUTV74bU-
.          2076    IN      RRSTG  DNSKEY  8 0 172800 20240422000000 20240401000000 20326 . YgyP7KpLNzyiZBCD2vw1MdT3dsrk40mTaLoJN6pH4gQiIwsAOIa
BCPm uBjWmKWXQegb/rRZ/P6FBi1wdlJhwSOOkxpzOC8yeZIHwYo4YvXFIMa Z38gL0o94gws857js11gG6SLP1kFgFzztj5V8Npbs1nMdNkj/BIMcUS zJEG/G0q3AYIhcubncTQRi3YFh0cBcqvelvf
Sv+cUUmzAS0h216mrEe BwzJaONo0+C1/uigrdACm7070eEsdlutlx1HIKkNs7Yz1AAwAD1/yisek rnVw5xMA83ldv7i3H0KMNEWNG87m4pRUFC9Tzxr0QbaQohLa/i9KRm0 U8ax0A=>

;; Query time: 160 msec
;; SERVER: 1.1.1.1853(1.1.1.1) (UDP)
;; WHEN: Thu Apr  4 15:49:01 EDT 2024
;; MSG SIZE  rcvd: 1139
```

```

nam@kali: ~
$ dig +trace www.arin.net.

; <>> Dig 9.18.16-1-Debian <>> +trace www.arin.net.
;; global options: +cmd
.
.           515614 IN      NS      a.root-servers.net.
.           515614 IN      NS      b.root-servers.net.
.           515614 IN      NS      c.root-servers.net.
.           515614 IN      NS      d.root-servers.net.
.           515614 IN      NS      e.root-servers.net.
.           515614 IN      NS      f.root-servers.net.
.           515614 IN      NS      g.root-servers.net.
.           515614 IN      NS      h.root-servers.net.
.           515614 IN      NS      i.root-servers.net.
.           515614 IN      NS      j.root-servers.net.
.           515614 IN      NS      k.root-servers.net.
.           515614 IN      NS      l.root-servers.net.
.           515614 IN      NS      m.root-servers.net.
.           515614 IN      RRSIG   NS      8 0 518400 20240404180000 5613 . eHjCk5FUd88VrPbocBEhME5b4wIYRD5NIIIBIkTFh2K1WwDq4utGLC1t
n6HuR92RafWFdRidXM8tezmXd58yQoZI]+KE5gjmuG0qeEPDgv28Zcf xxU7W50FRL5io/dagkpPIKnzBMvu3houBdJAAYSJJ0p9b5cfqAMcB/M Q7fIAOEJ6PUxqcNWT0rFixrmN8QCuqWB0RYBMUJH
uGStvliN0+/2K OKCJrv+5l6zqBcPvHe+SyoNra+ModYGwtwVq6y7jwCtcXcqQsxAeuy iVkw0/0EEstWoXh157i1taDdjguxubErvKQ5mzKB+HF0wfIWtp5oyaqE jzx7CQ=
couldn't get address for 'a.root-servers.net': failure
couldn't get address for 'i.root-servers.net': failure
couldn't get address for 'j.root-servers.net': failure
couldn't get address for 'm.root-servers.net': failure
;; Received 525 bytes from 1.1.1.1#53(1.1.1.1) in 36 ms

;; UDP setup with 2001:7fd::1#53(2001:7fd::1) for www.arin.net. failed: network unreachable.
;; UDP setup with 2001:7fd::14#53(2001:7fd::1) for www.arin.net. failed: network unreachable.
;; UDP setup with 2001:7fd::14#53(2001:7fd::1) for www.arin.net. failed: network unreachable.
net.          172800 IN      NS      e.gtld-servers.net.
net.          172800 IN      NS      b.gtld-servers.net.
net.          172800 IN      NS      a.gtld-servers.net.
net.          172800 IN      NS      d.gtld-servers.net.
net.          172800 IN      NS      i.gtld-servers.net.
net.          172800 IN      NS      f.gtld-servers.net.
net.          172800 IN      NS      j.gtld-servers.net.
net.          172800 IN      NS      k.gtld-servers.net.
net.          172800 IN      NS      c.gtld-servers.net.
net.          172800 IN      NS      g.gtld-servers.net.
net.          172800 IN      NS      h.gtld-servers.net.
net.          172800 IN      NS      l.gtld-servers.net.
net.          172800 IN      NS      m.gtld-servers.net.
net.          86400  IN      DS      37331 13 2 2F08EC2D6F79DFBD1D08FD21A3AF92D0E39A4B9EF1E3F4111FFF2824 90DA453B
net.          86400  IN      RRSIG   DS 8 1 86400 20240417190000 5613 . NAHuqzTuShtD35iJs3/8XzoXutwsVPGC3ZkwJKYXSnArJoC/bUqQvDW g
v8YNHeEbMdR2M2Acgypmc3545fCh/gs/C0iuSKkyrf723M/SIWcnhZg KC92MV1ZKKQ7sj+7xjXkNpFD61tFcikFcwF8CS6EEe6FZsI3x9ctywmk 5FPfwW+Kn1PlLkpCEp5bf3r2KnrxiUGG99x0ku9yjk
uShT6q3afk1AL Sxhoiz0DP/KsFfmIMWzrltWXu8se4+IPyuGgx/huSBMz4vDOLIVfd 4u6vZjJk+7lPP9Pysav1Au89sqz0EhpXXyriPYxOs13w24vd7dAnfQvJB Rnx9fw=
couldn't get address for 'd.gtld-servers.net': failure
;; Received 1169 bytes from 192.55.241#53(f.root-servers.net) in 112 ms

arin.net.       172800 IN      NS      ns1.arin.net.
arin.net.       172800 IN      NS      ns2.arin.net.
arin.net.       172800 IN      NS      u.arin.net.
arin.net.       172800 IN      NS      ns3.arin.net.
arin.net.       86400  IN      DS      50716 8 2 EB708BF25CC3F568B017DA1BFFBD6B31FE4B94B4D89D1C27C1603133 5CE50526
arin.net.       86400  IN      RRSIG   DS 13 8 86400 20240408070243 20240410155243 34730 net. j3ICXG5FxTw5YwMJ98yXBQWYmY+ViobVtBmua8AqiuG4mnnsNo8
K57 1YRETaetBuStbEfRn5twYbirUD4K4Q=
couldn't get address for 'ns2.arin.net': failure
;; Received 434 bytes from 192.52.178.30#53(k.gtld-servers.net) in 68 ms

www.arin.net. 60      IN      A      192.136.136.47
www.arin.net. 60      IN      A      199.43.0.47
www.arin.net. 60      IN      RRSIG   A 8 3 60 20240418164541 20240404154541 26139 arin.net. h90AbioSE5/uTTg9SniyFiCI7VyJMCJKq8WeAqg4bv5cA5aUTlwQc
BjV 6LUExkk8BA2kShnooRU+ZLbsXn2eBm+mXgfbj0iYLwXovZaxMaXYaf yB3rirttxu9ifVt0ipM4cr/1Mi77ghmgW68fmx4xD74biEEq05/vTGh2 SXw=
;; Received 269 bytes from 199.52.108#53(ns3.arin.net) in 200 ms

nam@kali: ~
$ 

```

## Lab 7.2:

```
nam@kali: ~
└$ dig ns arin.net.

; <>> DiG 9.18.16-1-Debian <>> ns arin.net.
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NOERROR, id: 60292
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags: udp: 1232
;; QUESTION SECTION:
;arin.net.           IN      NS

;; ANSWER SECTION:
arin.net.        43200   IN      NS      u.arin.net.
arin.net.        43200   IN      NS      ns1.arin.net.
arin.net.        43200   IN      NS      ns2.arin.net.
arin.net.        43200   IN      NS      ns3.arin.net.

;; Query time: 212 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Sun Apr 07 01:13:04 EDT 2024
;; MSG SIZE rcvd: 107

[(nam@kali)-[~]
└$ dig axfr @ns1.arin.net arin.net.

; <>> DiG 9.18.16-1-Debian <>> axfr @ns1.arin.net arin.net.
; (2 servers found)
;; global options: +cmd
;; Transfer failed.

[(nam@kali)-[~]
└$ dig rit.arin.net.

; <>> DiG 9.18.16-1-Debian <>> rit.arin.net.
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NXDOMAIN, id: 40445
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags: udp: 1232
;; QUESTION SECTION:
;rit.arin.net.      IN      A

;; AUTHORITY SECTION:
arin.net.        3600    IN      SOA     ns1.arin.net. bind.arin.net. 2021108340 10800 600 1209600 3600

;; Query time: 180 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Sun Apr 07 01:13:46 EDT 2024
;; MSG SIZE rcvd: 86

[(nam@kali)-[~]
└$ dig rit.arin.net.

; <>> DiG 9.18.16-1-Debian <>> rit.arin.net.
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NXDOMAIN, id: 122
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags: udp: 1232
;; QUESTION SECTION:
;rit.arin.net.      IN      A

;; AUTHORITY SECTION:
arin.net.        3600    IN      SOA     ns1.arin.net. bind.arin.net. 2021108340 10800 600 1209600 3600

;; Query time: 216 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Sun Apr 07 01:19:52 EDT 2024
;; MSG SIZE rcvd: 86

[(nam@kali)-[~]
└$
```

```

nam@kali: ~
$ dig +dnssec rit.arin.net.

; <>> Dig 9.18.16-1-Debian <>> +dnssec rit.arin.net.
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NXDOMAIN, id: 57802
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 6, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
;rit.arin.net.           IN      A

;; AUTHORITY SECTION:
arin.net.            3600    IN      SOA     ns1.arin.net. bind.arin.net. 2021108340 10800 600 1209600 3600
arin.net.            3600    IN      RRSIG   SOA 8 2 43200 20240421120013 20240407110013 26139 arin.net. wckw+bt8iz8chZf0Amp9HLZ303Sk106NZF1f9EiqBmrYtDXg
PyHX2sU7 QFzL531wkLthzHKH1Q8xpPg8a8NYsWcyWpUJDF7tXioihsD2zdZ12J w5WtZVKUGbIAmSBBmCyQDph+Uq6qbigaKbJhqISxDbSw1t+JMZQqUhk zZo=
rirms.arin.net.    3600    IN      NSEC    rpk1.arin.net. A AAAA RRSIG NSEC
rirms.arin.net.    3600    IN      RRSIG   NSEC 8 3 3600 20240421120013 20240407110013 26139 arin.net. MKSfeUSfAe0pnrdCY5V+V4sFm30J6UncOKBFG7+tCX1IE3tl
MmnU5fH/ MiOeUeClyuo7IOJMyUKWxpUjwfnNywYo/+bQewXnzSgc07mli doaoJWb/61+YxyRkc880w48Bd6+srBwV4z9TYNa5XCT0an302pBbegX c/Y=
arin.net.            3600    IN      NSEC    _dmarc.arin.net. NS SOA MX TXT AAAA RRSIG NSEC DNSKEY
arin.net.            3600    IN      RRSIG   NSEC 8 2 3600 20240421120013 20240407110013 26139 arin.net. dEqimP9f7ZN0pm5XhRiaTd4B8DFq5renAlIX4cQRaxykWMCD
Uzpu4Rd5 qqIjjjjLClfo6IdpZudGpRps2IJ1r8GEElcpLq0QXAgRPDxx0nsIOj Fz5ByMwn4CQvCxple52YY1v692GD+iXWpjQ9t/fh34xsZzw5lJQwTHk jxw=

;; Query time: 204 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Sun Apr 07 01:20:22 EDT 2024
;; MSG SIZE rcvd: 669

(nam@kali): ~
$ dig +dnssec jonathan.arin.net.

; <>> Dig 9.18.16-1-Debian <>> +dnssec jonathan.arin.net.
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NXDOMAIN, id: 47560
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 6, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
;jonathan.arin.net.           IN      A

;; AUTHORITY SECTION:
arin.net.            3600    IN      SOA     ns1.arin.net. bind.arin.net. 2021108340 10800 600 1209600 3600
arin.net.            3600    IN      RRSIG   SOA 8 2 43200 20240421120013 20240407110013 26139 arin.net. wckw+bt8iz8chZf0Amp9HLZ303Sk10GNZF1f9EiqBmrYtDXg
PyHX2sU7 QFzL531wkLthzHKH1Q8xpPg8a8NYsWcyWpUJDF7tXioihsD2zdZ12J w5WtZVKUGbIAmSBBmCyQDph+Uq6qbigaKbJhqISxDbSw1t+JMZQqUhk zZo=
jamf.arin.net.    3600    IN      NSEC    kim-can.arin.net. CNAME RRSIG NSEC
jamf.arin.net.    3600    IN      RRSIG   NSEC 8 3 3600 20240421120013 20240407110013 26139 arin.net. CGRDNBFCBqYFY3XxmQ09ebcMpPUs2SMLrxUhmFZEAJ4M9aC
ZxOVFYM1 ezwk7cFzwarfj7+H1vCgcC8s5e4drWUPaZ0v0NrbgAd9ytb90Y/n60W p80ijw+M1+fcMP2MrQAE3jpxi9H/OT/K+A99+e7Nm7iE0d1X2AD2b AWM=
arin.net.            3600    IN      NSEC    _dmarc.arin.net. A NS SOA MX TXT AAAA RRSIG NSEC DNSKEY
arin.net.            3600    IN      RRSIG   NSEC 8 2 3600 20240421120013 20240407110013 26139 arin.net. dEqimP9f7ZN0pm5XhRiaTd4B8DFq5renAlIX4cQRaxykWMCD
Uzpu4Rd5 qqIjjjjLClfo6IdpZudGpRps2IJ1r8GEElcpLq0QXAgRPDxx0nsIOj Fz5ByMwn4CQvCxple52YY1v692GD+iXWpjQ9t/fh34xsZzw5lJQwTHk jxw=

;; Query time: 276 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Sun Apr 07 09:45:49 EDT 2024
;; MSG SIZE rcvd: 676

(nam@kali): ~
$ 

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(nam㉿kali)-[~]
$ dig +dnssec kim-can1.arin.net.

; <>> Dig 9.18.16-1-Debian <>> +dnssec kim-can1.arin.net.
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NXDOMAIN, id: 14614
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 6, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
;kim-can1.arin.net.           IN      A

;; AUTHORITY SECTION:
arin.net.          3600    IN      SOA     ns1.arin.net. bind.arin.net. 2021108340 10800 600 1209600 3600
arin.net.          3600    IN      RRSIG   SOA 8 2 43200 20240421120013 20240407110013 26139 arin.net. wckw+bt8iz8chZf0Amp9HLZ303Sk106NZF1f9EiqBmrYtDXg
PyHX2sU7QFzL531wkLthzHKH1QBxpPg8a8NYsWcyWpUJDF7tXioihsD2zdZ12J w5WtZVKUGbIAm5BBmCyQDph+Uq6qbigaKbJhqISx0Bsw1t+JMZQqUhk zZo=
Kim-can.arin.net. 3600    IN      NSEC    lacnic.arin.net. RRSIG NSEC
Kim-can.arin.net. 3600    IN      RRSIG   NSEC 8 3 3600 20240421120013 20240407110013 26139 arin.net. tO2uCj6sVff45KnH1bJSXdm6ahsFyRjeEH0Qch+wv2YeqxQ
yXVUnzG8Jm0RAo0WnxNrT3dVw5v+TLufxMd+FUWGdZC4SS7HokPVA2FB54o0d jIVD49ja9MjZzjZkBmsos816cV9lTuQ8opPvmm3Xz2d8MeQ10csQnr rRI=
arin.net.          3600    IN      NSEC    _dmarc.arin.net. NS SOA MX TXT AAAA RRSIG NSEC DNSKEY
arin.net.          3600    IN      RRSIG   NSEC 8 2 3600 20240421120013 20240407110013 26139 arin.net. dEqimP9f7ZN0pm5XhRiATd4B8DFq5renAlIX4cQRaxykWMCD
Uzpu4Rd5 qqIijjjJLClfo6IdpZudGpRPs2IJ1r8GEElcpLq0QXAgRPDxx0nsIOj Fz5ByMwn4CQvCxple52YY1v692GD+iXWpjQ9t/fh34xsZzw5lJQwTHk jxw=

;; Query time: 240 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Sun Apr 07 09:52:59 EDT 2024
;; MSG SIZE rcvd: 678

(nam㉿kali)-[~]
$ dig +dnssec lacnic1.arin.net.

; <>> Dig 9.18.16-1-Debian <>> +dnssec lacnic1.arin.net.
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NXDOMAIN, id: 27775
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 6, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
;lacnic1.arin.net.           IN      A

;; AUTHORITY SECTION:
arin.net.          3600    IN      SOA     ns1.arin.net. bind.arin.net. 2021108340 10800 600 1209600 3600
arin.net.          3600    IN      RRSIG   SOA 8 2 43200 20240421120013 20240407110013 26139 arin.net. wckw+bt8iz8chZf0Amp9HLZ303Sk10GNZF1f9EiqBmrYtDXg
PyHX2sU7QFzL531wkLthzHKH1QBxpPg8a8NYsWcyWpUJDF7tXioihsD2zdZ12J w5WtZVKUGbIAm5BBmCyQDph+Uq6qbigaKbJhqISx0Bsw1t+JMZQqUhk zZo=
lacnic.arin.net. 3600    IN      NSEC    lightning.arin.net. A AAAA RRSIG NSEC
lacnic.arin.net. 3600    IN      RRSIG   NSEC 8 3 3600 20240421120013 20240407110013 26139 arin.net. SoYf2730RXEljZHJYnBxp5r0PIkoBUvm+g48LwSYJ2gEP0vI
3bj0Hlp0Ojn9Stle8j5EyJkzf992l7h657zTpGflrytz2sGzhCDXcZ/R3+qfDq X2Fe57WK+tlVkfryCofIr3ePiyDEQgxrZf3M8rMtD0p5430nu3bxuxW ZyU=
arin.net.          3600    IN      NSEC    _dmarc.arin.net. A NS SOA MX TXT AAAA RRSIG NSEC DNSKEY
arin.net.          3600    IN      RRSIG   NSEC 8 2 3600 20240421120013 20240407110013 26139 arin.net. dEqimP9f7ZN0pm5XhRiATd4B8DFq5renAlIX4cQRaxykWMCD
Uzpu4Rd5 qqIijjjJLClfo6IdpZudGpRPs2IJ1r8GEElcpLq0QXAgRPDxx0nsIOj Fz5ByMwn4CQvCxple52YY1v692GD+iXWpjQ9t/fh34xsZzw5lJQwTHk jxw=

;; Query time: 184 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Sun Apr 07 09:57:01 EDT 2024
;; MSG SIZE rcvd: 679
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nam@kali: ~
$ dig +dnssec rit.icann.org.

; <>> Dig 9.18.16-1-Debian <>> +dnssec rit.icann.org.
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NXDOMAIN, id: 27603
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 8, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
;rit.icann.org.      IN      A

;; AUTHORITY SECTION:
icann.org.          3600    IN      SOA     sns.dns.icann.org. noc.dns.icann.org. 2024040503 10800 3600 1209600 3600
icann.org.          3600    IN      RRSIG   SOA 13 2 3600 20240428094644 20240407062606 3551 icann.org. nXgXd5BHzAwLY/BRgFF9cnaRo/j6mDL5gLbLNKbVMM0254Q
ggY9UtnT OUESUDSLRB6gZQcZUdaMdAMr0o8ENA=fc7npf6fp5j4p6ndn5ifcet9feubkgk.icann.org. 3600 IN NSEC3 1 0 5 53BCBC5805D2B761 FCHKQNNJ7LEGD2T2D4T9S354AU2NJJJCJ A NS SOA MX TXT AAAA RRSIG DNSKEY NSEC3PAR
AMfc7npf6fp5j4p6ndn5ifcet9feubkgk.icann.org. 3600 IN RRSIG NSEC3 13 3 3600 20240428165235 20240407062606 3551 icann.org. 42HOREbdemNWUmCzKWMAG0bv7RgUTXxC2hq/
8pZUkt40A97js6bwcpG jLb/uEGA/qxcGCKJ+yrTCvp/2rz0w=een2ts5bmmhtu2jcq4ag3hpur6tiuooa.icann.org. 3600 IN NSEC3 1 0 5 53BCBC5805D2B761 EFJVS7Q2J2608FOIE6JSK51K3D88VTL7 A RRSIG
een2ts5bmmhtu2jcq4ag3hpur6tiuooa.icann.org. 3600 IN RRSIG NSEC3 13 3 3600 20240428104006 20240407062606 3551 icann.org. AO+QvVyRYSGuuR9wwzFPiy1j/Syjm9ZGAitt
vADsHsC0lWp1YTWhd8q8 qYY3tbAHcOMh5t9NvNyvx0VPsqyA=9idtq133ps4jqo3o54lmoromoet734efn.icann.org. 3600 IN NSEC3 1 0 5 53BCBC5805D2B761 9IQG505N3E3MFJSNU3570SG1MNSHKJ2D A RRSIG
9idtq133ps4jqo3o54lmoromoet734efn.icann.org. 3600 IN RRSIG NSEC3 13 3 3600 20240428183835 20240407062606 3551 icann.org. 7kFzT5V3zhacVcEZqepWZM45IcBS2rNjgWnr
uv4d3m/4bz2lcg4h+Dn eyz3NHyd5A6VNzU6jfCbrB4anc90Q=

;; Query time: 208 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Sun Apr 07 09:57:45 EDT 2024
;; MSG SIZE  rcvd: 772

nam@kali: ~
$ dig +dnssec jonathan.icann.org.

; <>> Dig 9.18.16-1-Debian <>> +dnssec jonathan.icann.org.
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NXDOMAIN, id: 7435
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 8, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: do; udp: 1232
;; QUESTION SECTION:
;jonathan.icann.org.      IN      A

;; AUTHORITY SECTION:
icann.org.          3600    IN      SOA     sns.dns.icann.org. noc.dns.icann.org. 2024040503 10800 3600 1209600 3600
icann.org.          3600    IN      RRSIG   SOA 13 2 3600 20240428094644 20240407062606 3551 icann.org. nXgXd5BHzAwLY/BRgFF9cnaRo/j6mDL5gLbLNKbVMM0254Q
ggY9UtnT OUESUDSLRB6gZQcZUdaMdAMr0o8ENA=fc7npf6fp5j4p6ndn5ifcet9feubkgk.icann.org. 3600 IN NSEC3 1 0 5 53BCBC5805D2B761 FCHKQNNJ7LEGD2T2D4T9S354AU2NJJJCJ A NS SOA MX TXT AAAA RRSIG DNSKEY NSEC3PAR
AMfc7npf6fp5j4p6ndn5ifcet9feubkgk.icann.org. 3600 IN RRSIG NSEC3 13 3 3600 20240428165235 20240407062606 3551 icann.org. 42HOREbdemNWUmCzKWMAG0bv7RgUTXxC2hq/
8pZUkt40A97js6bwcpG jLb/uEGA/qxcGCKJ+yrTCvp/2rz0w=8l1pm7ccgjt8focckg73aeacs7cvBub.icann.org. 3600 IN NSEC3 1 0 5 53BCBC5805D2B761 8LVA52A8DC5JV76BBG4ELGIS2SFBB8U2C A RRSIG
8l1pm7ccgjt8focckg73aeacs7cvBub.icann.org. 3600 IN RRSIG NSEC3 13 3 3600 20240427205614 20240407062606 3551 icann.org. /TbTZknBUNAXIYYDcGrkQrmTfzBuzQRgfNsc
v1DN/UafInJssGQ2HNG/ ZPyZYU1FO/wDHxfvsao0Jn60PfgQg=9idtq133ps4jqo3o54lmoromoet734efn.icann.org. 3600 IN NSEC3 1 0 5 53BCBC5805D2B761 9IQG505N3E3MFJSNU3570SG1MNSHKJ2D A RRSIG
9idtq133ps4jqo3o54lmoromoet734efn.icann.org. 3600 IN RRSIG NSEC3 13 3 3600 20240428183835 20240407062606 3551 icann.org. 7kFzT5V3zhacVcEZqepWZM45IcBS2rNjgWnr
uv4d3m/4bz2lcg4h+Dn eyz3NHyd5A6VNzU6jfCbrB4anc90Q=

;; Query time: 192 msec
;; SERVER: 1.1.1.1#53(1.1.1.1) (UDP)
;; WHEN: Sun Apr 07 10:05:26 EDT 2024
;; MSG SIZE  rcvd: 777

nam@kali: ~
$ 

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