



The Great DNSSEC Quiz

(no DNS records were harmed during the making of this quiz)

The rules

- Use the form to answer your questions
- Put your name on the form
- When done answering, hand the form to your neighbour
- Evaluate your neighbour's answers
- Count the points

Root Hints

- Sometimes more answers are correct (like A records)
- A point is scored for each correct answer
- No points are scored for the entire question if it contains a single wrong answer (like lame delegations)

Five Stone handicap criteria

You start with a handicap of **-1** point for each of these criteria you match:

- You are subscribed to the `dnsop@ietf.org` mailing list
- You have or had an `icann.org` email address
- You have root access to a TLD nameserver
- You are a listed author on a DNS RFC
- You have used the `nslookup` or `host` command in the last five years

1: The confidence builder

Which of the following are true?

- A) The KEY, SIG and DEL RRTYPE were replaced by DNSKEY, RRSIG and the DS RRTYPE
- B) Many countries have legal requirements that require DNSSEC to always use RFC-5155 opt-out
- C) dig, drill, unbind, bound, delve and knot are names of opensource DNS software
- D) Every key with the SEP bit set in a valid trust chain must have a corresponding DS record published.

2: Don't fail me now

Which of the following situations could lead to a DNSSEC validation failure?

- A) Expired RRSIG records
- B) A melted HSM card
- C) RRSIGs only valid starting in an hour
- D) Disk full on the DNSSEC signer machine
- E) A cable cut causing identical backup DNS servers to take over DNS resolution

3: Continental

Which were the first DNSSEC signed countries on each continent? as per wikipedia [citation needed]: Asia, Africa, North America, South America, Antarctica, Europe and Australia

- A) Sri Lanka, Niger, United States, none, The Netherlands and Australia
- B) Turkemistan, Namibia, Czech Republic, Brazil, none and New Zealand
- C) Thailand, Namibia, Puerto Rico, Brazil, none, Sweden and New Zealand
- D) Sweden, Mexico, Japan, Australia, United States, Antarctica and Australia

4: Rollin' rollin' rollin'... rawhide!

How many times has the Root KSK visibly changed (excluding TTL changes)

- A) Never
- B) Once
- C) Twice
- D) Thrice

5: The midway question

Which of these TLDs was signed before the root, but is no longer a signed TLD?

A) .test

B) .um

C) .example

D) .aq

E) e164.arpa

6: I have no glue

When deleting a delegation from a zone, what should be done with its glue records?

- A) Remove the glue, if not used by any other zones
- B) Remove the glue, regardless of other zones
- C) Keep the glue , do not sign it
- D) Keep the glue, sign it

7: Random Effect

Did the well-known openssl random "Debian bug" impact DNSSEC?

- A) No, because DNSSEC signed zones are served statically
- B) Yes, and various TLD's had to perform emergency rollovers
- C) No, because OpenDNSSEC and Bind do not use openssl to generate keys
- D) Yes, about 65 vulnerable keys were found but none in TLD's

8: Dutch DNS Dynamics

What was the .nl.nl zone?

- A) The first DNSSEC TLD zone
- B) A missing dot leading to a large DNS outage, often blamed on DNSSEC.
- C) An early experiment that took the .nl domain and republished it using DNSSEC.
- D) An active delegated zone owned by Olaf Kolkman used for IETF DNSSEC experiments

9: DNSKEY support

Which **one** of these DNSKEY's will work best on resolvers throughout the world

A) IN DNSKEY 257 3 13 AwEAAZyIkCwEYe [...]

B) IN DNSKEY 385 3 8 AwEAAAdZSHCrD7R [...]

C) IN DNSKEY 257 3 8 AwEAAZyIkCwEYe [...]

D) IN DNSKEY 257 3 8 BQEAAAABnjAVd4 [...]

E) IN DNSKEY 257 3 12 AwEAAZyIkCwEYe [...]

10: For the high rollers

Which TLDs were signed before the root was signed?

10: For the high rollers

Which TLDs were signed before the root was signed?

(yeah yeah - DURZ does not count as signed)

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4: Rollin' rollin' rollin'... rawhide!

How many times has the Root KSK visibly changed (excluding TTL changes)

A) Never

B) Once

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D) Thrice

- KSK first published as DURZ on Dec 1, 2009
- June 10, 2010 brief DURZ leak
 - DURZ --1--> KSK --2--> DURZ
- July 15, 2010 KSK goes live,
 - DURZ --3--> 19036

5: The midway question

Which of these TLDs was signed before the root, but is no longer a signed TLD?

A) .test

B) .um The United States Minor Outlying Islands
(AKA “midway”) no longer exists

C) .example

D) .aq

E) e164.arpa

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E) IN DNSKEY 257 3 12 AwEAAZyIkCwEYe [...]

10: For the high rollers

Which TLDs were signed before the root was signed?
(remember: a wrong country means 0 points)

.SE .BR .CZ .MUSEUM .GOV .TH
.ORG .NA .PTR .CH .LI .TM
.US .PT .LK .UK .ARPA .KG
.PM

.EU .CAT
.CL (same day, will give benefit of doubt)

Scoring

- 5 to 0 DNSSEC Skeptic
- 1 to 4 Hedonist
- 5 to 8 DNSSEC Fan
- 9 to 10 DNSSEC User
- 11 to 14 DNSSEC Enthusiast
- 15 to 19 DNSSEC Expert
- 20 to 29 DNSSEC Historian

- 30 to 32 DNSSEC Ninja
- 32 to 37 DNSSEC Procrastinator