

DNSSEC Hardware Tester

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米谷嘉朗

<yoshiro.yoneya@jprs.co.jp>

DNSSEC Hardware Testerとは？

- NIC.CZ(チェコのTLDレジストリ)が開発しているツールで、家庭用ルーターがDNSSECに対応しているかを確認できる
- Webサイト:
<http://www.nic.cz/dnssectests/>

使い方

(Windowsの場合)

1. CZ.NICのWebサイトからWindows用バイナリ(ZIPファイル)をダウンロードする
2. ZIPファイルを適当なフォルダに展開する
3. dnstester.batをダブルクリックする
4. インターネットへの接続形態を選択し、ハードウェア情報(ベンダ名、製品名、ファームバージョン)を入力する
5. テストが終了するのを待つ
6. (必要に応じて)結果をアップロードする

テストの種類と概要

- AU
 - UDPで扱えるパケットサイズを確認
- AT
 - TCPで扱えるパケットサイズを確認
- B
 - 署名されたゾーンのSOAを確認
- C
 - 署名されたゾーンのSOAをDNSSEC(DO=1)で確認
- D
 - 署名されたゾーンのSOAをDNSSEC(DO=1、CD=1)で確認
- E
 - 署名されたゾーンのSOAをDNSSEC(AD=1)で確認
- G
 - DNSSEC以外の新しいRR(NAPTR、SRVなど)を確認


注意事項

- キャッシュDNSサーバ(フルリゾルバ)がDNSSECに対応し、かつ、DNSSEC検証が有効になっていないとすべてのテストをpassすることはできません
- C～Eがfailedになるなら、キャッシュDNSサーバがDNSSECに対応していません
- C.1やEがfailedになるなら、キャッシュDNSサーバがDNSSEC検証有効になっていません
 - dnstests.czのTAを持っていない可能性もあります

実行例1 (BroadBand Routerのみ)


DNSSEC Hardware Tester (6 of 8)

DNSSEC compatilby report

Your device(s) DNSSEC compatibility:  Average 35/43 tests passed

Report

Device information:
Manufacturer: na
Model: na
Firmware version: na

Network information:
Network addresses:
DNS servers: 192.168.1.1
Default gateway IP address: 192.168.1.1
Default gateway MAC address: 

Operating system:
Platform: win32

Tests results:


- [AU.1.1](#) pass (weight 17%)
- [AU.1.2](#) pass (weight 0%)
- [AU.1.3](#) pass (weight 0%)
- [AU.1.4](#) pass (weight 0%)
- [AU.2.1](#) pass (weight 0%)
- [AU.2.2](#) pass (weight 0%)
- [AU.2.3](#) pass (weight 0%)
- [AU.2.4](#) pass (weight 0%)
- [AU.3.1](#) pass (weight 0%)
- [AU.3.2](#) pass (weight 0%)
- [AU.3.3](#) failed (weight 0%)
- [AU.3.4](#) failed (weight 0%)
- [AU.4.1](#) pass (weight 0%)
- [AU.4.2](#) pass (weight 0%)

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DNSSEC Hardware Tester (6 of 8)

DNSSEC compatilby report

Your device(s) DNSSEC compatibility:  Average 35/43 tests passed

Report

- [AU.4.3](#) failed (weight 0%)
- [AU.4.4](#) failed (weight 0%)
- [AT.1.1](#) pass (weight 1%)
- [AT.1.2](#) pass (weight 1%)
- [AT.1.3](#) pass (weight 1%)
- [AT.1.4](#) pass (weight 1%)
- [AT.2.1](#) pass (weight 1%)
- [AT.2.2](#) pass (weight 1%)
- [AT.2.3](#) pass (weight 1%)
- [AT.2.4](#) pass (weight 1%)
- [AT.3.1](#) pass (weight 1%)
- [AT.3.2](#) pass (weight 1%)
- [AT.3.3](#) pass (weight 1%)
- [AT.3.4](#) pass (weight 1%)
- [AT.4.1](#) pass (weight 1%)
- [AT.4.2](#) pass (weight 1%)
- [AT.4.3](#) pass (weight 1%)
- [AT.4.4](#) pass (weight 1%)
- [B](#) pass (weight 26%)
- [C.1](#) failed (weight 11%)
- [C.2](#) pass (weight 11%)
- [D.1](#) failed (weight 11%)
- [D.2](#) failed (weight 11%)
- [E](#) failed (weight 11%)
- [G.1](#) pass (weight 0%)
- [G.2](#) pass (weight 0%)
- [G.3](#) pass (weight 0%)
- [G.4](#) pass (weight 0%)
- [G.5](#) pass (weight 0%)

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実行例2

(BroadBand Router + Wifi Router)

DNSSEC Hardware Tester (6 of 8)

DNSSEC compatibility report

Your device(s) DNSSEC compatibility:  Average 14/43 tests passed


Report

Device information:

Primary device information:
Manufacturer: na
Model: na
Firmware version: na

Secondary device information:
Manufacturer: na
Model: na
Firmware version: na

Network information:



Network addresses:
DNS servers: 192.168.2.1
Default gateway IP address: 192.168.2.1
Default gateway MAC address: 

Operating system:
Platform: win32

Tests results:


- [AU.1.1](#) pass (weight 17%)
- [AU.1.2](#) pass (weight 0%)
- [AU.1.3](#) pass (weight 0%)
- [AU.1.4](#) pass (weight 0%)
- [AU.2.1](#) pass (weight 0%)
- [AU.2.2](#) failed (weight 0%)
- [AU.2.3](#) failed (weight 0%)
- [AU.2.4](#) failed (weight 0%)
- [AU.3.1](#) pass (weight 0%)
- [AU.3.2](#) failed (weight 0%)
- [AU.3.3](#) failed (weight 0%)

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DNSSEC Hardware Tester (6 of 8)

DNSSEC compatibility report

Your device(s) DNSSEC compatibility:  Average 14/43 tests passed

Report

- [AU.4.1](#) pass (weight 0%)
- [AU.4.2](#) failed (weight 0%)
- [AU.4.3](#) failed (weight 0%)
- [AU.4.4](#) failed (weight 0%)
- [AT.1.1](#) failed (weight 1%)
- [AT.1.2](#) failed (weight 1%)
- [AT.1.3](#) failed (weight 1%)
- [AT.1.4](#) failed (weight 1%)
- [AT.2.1](#) failed (weight 1%)
- [AT.2.2](#) failed (weight 1%)
- [AT.2.3](#) failed (weight 1%)
- [AT.2.4](#) failed (weight 1%)
- [AT.3.1](#) failed (weight 1%)
- [AT.3.2](#) failed (weight 1%)
- [AT.3.3](#) failed (weight 1%)
- [AT.3.4](#) failed (weight 1%)
- [AT.4.1](#) failed (weight 1%)
- [AT.4.2](#) failed (weight 1%)
- [AT.4.3](#) failed (weight 1%)
- [AT.4.4](#) failed (weight 1%)
- [B](#) pass (weight 26%)
- [C.1](#) failed (weight 11%)
- [C.2](#) pass (weight 11%)
- [D.1](#) failed (weight 11%)
- [D.2](#) failed (weight 11%)
- [E](#) failed (weight 11%)
- [G.1](#) pass (weight 0%)
- [G.2](#) pass (weight 0%)
- [G.3](#) pass (weight 0%)
- [G.4](#) pass (weight 0%)
- [G.5](#) pass (weight 0%)

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