Zonecheck, testing a DNS zone

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Why testing a DNS zone?

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It is not because "it works" that everything is perfect.

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- ▶ Free software,
- ▶ Quite general tool, not a small ad hoc hack,
- ▶ Separated policy and engine (more on that later).

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The result

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- Hosted at the hosting service Savannah,
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- Used in daily production at AFNIC since.

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The code defines all the tests you **can** run, the configuration file defines the subset of the tests that you **do** run and their result (fatal error or just a warning).

```
<check name="icmp" severity="w" category="connectivity:l3"/>
<check name="udp"  severity="f" category="connectivity:l4"/>
<check name="tcp"  severity="f" category="connectivity:l4"/>
```

Example of configuration

```
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<check name="udp"  severity="f" category="connectivity:l4"/>
<check name="tcp"  severity="f" category="connectivity:l4"/>
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A program can translate this configuration file to HTML, for
information of the users.

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▶ TCP connectivity is mandatory,

▶ If the server is recursive, a lot of tests occur (such as whether the loopback address is delegated in in-addr.arpa).

Using it to check delegations from a registry

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But it makes a much better zone and strongly diminishes the post-registration complaints "My site does not work".

Context: IANA asks for comments about delegation checks
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Lessons for IANA checks

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Remember that using Zonecheck does not mean using AFNIC policy.

- `.de`
- `.ch`
- `.no`

- `.de`
- `.ch`
- `.no`

Tomorrow, you?

`http://www.zonecheck.fr/`