

# Opening

Present: René, Yuri, Matthijs, Nick, Roland (minutes)

## Agenda

- Database integration
- DS seen and max. zone TTL
- Alpha + beta
- Testing
- AOB

## Database integration

René has pushed the MySQL and SQLite integration to SVN. MySQL works through libdbi, SQLite is a direct implementation because the libdbi support was too limited. He has not created a PostgreSQL integration but estimates that this would require about a week of work. The most difficult bit is the SQL dialect for table manipulation.

René has also added the addZone command is working on the deleteZone command.

He has also done some benchmarks to compare database speeds and notes that MySQL is way faster than SQLite.

The database integration is such that there is only one zone in memory at any time, thus significantly limiting enforcer memory use. Furthermore, all database manipulation is captured in transactions, thus guaranteeing a robust interaction with the database and making it safer to synchronise active and backup signers through database replication.

## DS seen and max. zone TTL

Rickard reported a bug that if there is no delegation-signer-submit command configured then the enforcer refuses to execute the DS-submit step and thus, it can never progress to DS-seen. René notes that manually exporting the DS also triggers the state change to DS-submitted. Thus, this does not seem to be an issue, but it needs to be documented.

Yuri notes that max. zone TTL was not implemented consistently, he has now chosen to implement it under <Signatures> but Rickard would like to see it implemented under <Zone>. We discuss this and the consensus of the conference group is that keeping it under <Signatures> makes more sense because it relates to the signer configuration and to the TTL of (signature) RRs.

Matthijs discusses some issues where max. zone TTL is not always sufficient to cap TTLs to keep enforcing safe. After some discussion with Yuri, they suggest to supply a warning in the enforcer logs when a user configures a SOA TTL that conflicts with the configured max. zone TTL.

## Alpha + beta

Earlier, we decided to have one more alpha release once the database integration was complete and then to proceed to the beta stage. The following steps need to be taken before we can create an alpha release:

- Test integration between signer and enforcer
- Yuri needs to check if the enforcer takes negative caching into concern in a correct way
- Create autotools magic for database integration

We will try to have the alpha ready on Friday the 13th of January 😊

Then, once this release has been tested, we can create a beta release (probably before the end of February), before we can release a beta, we need:

- A tool to transition from the old enforcer to the new one (requires intermediate state description format, see Action Items below)
- Native MySQL implementation (to be discussed)
- Fix small cosmetic differences between old and new enforcer

## Testing

Nick reports that he has been busy on other projects at SIDN, but he can return to testing OpenDNSSEC end of January, which means he can start testing the alpha release.

## AOB

Yuri asks René if the zoneAdd commands only works on the database. René says that that is indeed the case. We revisit the "what data is leading discussion" (database vs. XML files). We propose the following solution:

- We create a new internal file that is input for the signer and is generated by the enforcer from the database
- The enforcer generates this file when:
  - It receives an "update zones" command and has new information read from the zonelist.xml configuration file
  - When a user adds or deletes a zone using the appropriate enforcer commands
- We treat zonelist.xml as "just another configuration file"
- Users can change the zonelist and tell the enforcer to re-read it and users can also use the add/delete commands
- The database is leading when we choose to do it this way because the internal file for the signer is generated from the data in the database, just like the signer configuration

## Next meeting

Thursday February 9th 10:00h CET

## Action items

- **Roland** - remind Jakob to specify an intermediate format to transition states from the old to the new enforcer
- **Rickard** - perform autotools magic for database integration
- **Roland** - mail Rickard and René to discuss dropping libdbi
- **Roland** - create story for the "what is leading" discussion