
The CDB evolution - part 5

03/08 –INFN-CNAF Bologna

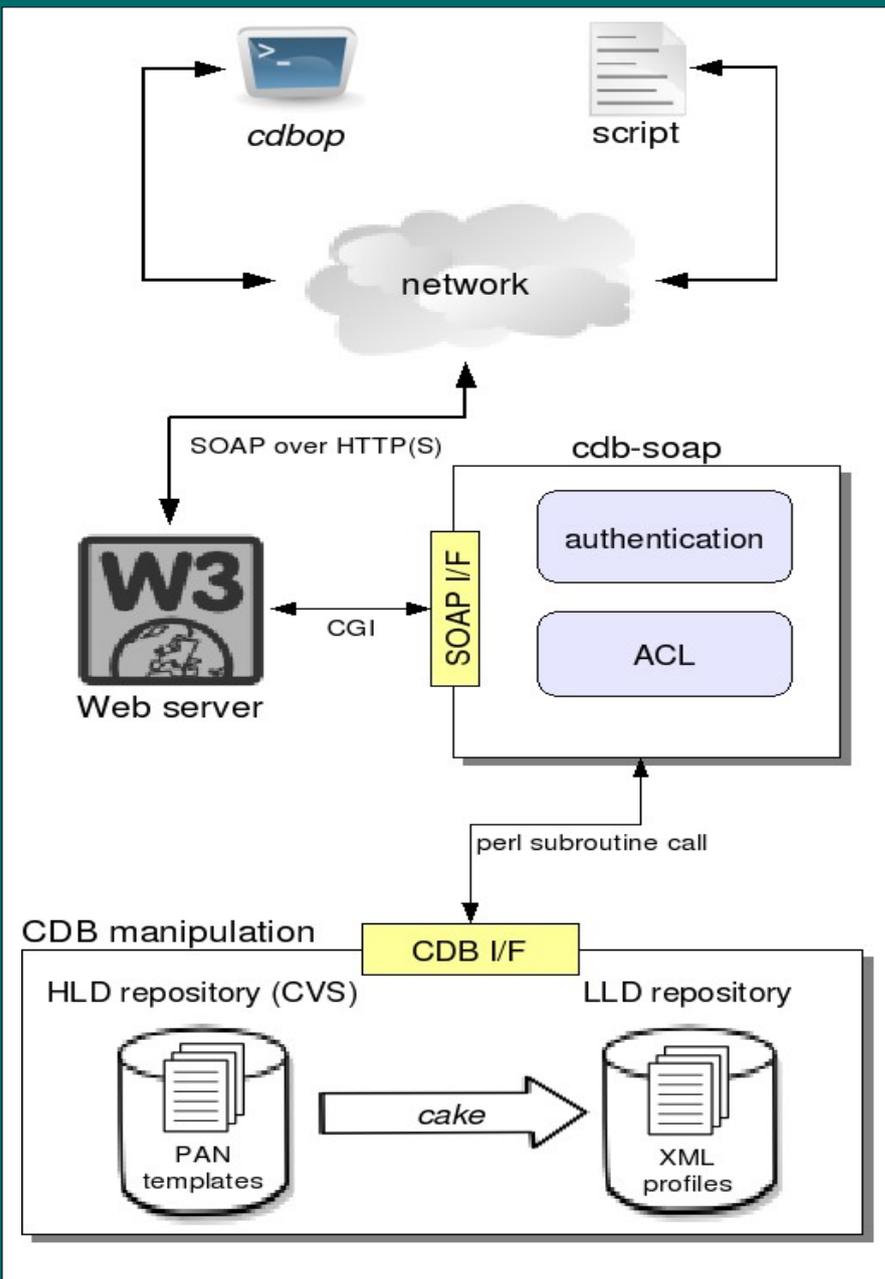
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Outline

- CDB overview
- Tasks since last workshop @ UAM
- What's new
- Wish list
- Boiling in the pot

CDB overview



Three-tier architecture

- SOAP client
 - + *cdbop* interactive/batch shell
 - + scripts
- SOAP middle-ware
 - + Apache + *cdb-soap* CGI
 - + stateless: each connection conveys one command
- CDB back-end
 - + it's a library, not a server
 - + templates compiled via *cake*
 - + templates stored in *CVS*
 - + stateful: partially transactional semantic through “sessions”

Tasks since last workshop @ UAM

□ Completed

+ Visualization/navigation tool

- Pan parser - *cdb-tp1-view* - available and integrated with *pangraph*
- Supports only static includes, until *panc-8* is ready to provide suitable extra information. (What's the status?)
- Partial supports for “stages”

□ Left behind

- + Fine-grained CDB locking with fair queuing. Long term
- + A common authentication service. Long term

What's new

□ Mostly bug fixes

- + Development temporarily frozen (I moved back to Italy)

□ cdb

- + `cdb-session-clean` stripped off and reworked as an external generic tool called `dircleaner`, easy to configure via `ncm-cron`:

```
"/software/packages"=pkg_add("dircleaner","1.0.5-1","noarch");
"/software/components/cron/entries" = push(
  # CDB clean-up every 2 days: files older than 2 days are removed
  nlist(
    "name",      "dircleaner",
    "user",      "root",
    "frequency", "10 0 * * */2",
    "command",   "dircleaner
                  --directory='/var/run/quattor/sessions-cdb/=2'
                  --directory='/var/lib/cdb/hld/session/=2'
                  --directory='/var/lib/cdb/lld/session/=2' "
  )
);
```

Wish list

- Expose to clients some useful CVS features, like tagging, in a controlled manner [#9734, #17827]
- Selective synchronization among multiple servers [#24687]
- Suppress notifications for a given set of targets [#26433]
- Allow to [#20280]:
 - + query the CVS backend
 - + log real user name and comment on commit
- Add ACLs/restrictions on the CDB configuration tree for "include" [#24983]

Boiling in the pot

Ideas

- Latest SOAP builds look more stable :-)
 - + Many cumulated patches finally applied to an official release
 - + Continuous testing is needed to ensure smooth functionality
- Better state meta-data handling:
 - + Rather critical for scalability
 - + Via a small generic library for managing text-based (ASCII) DB files

Issues

- Manpower
 - + I'm just back into active development
 - + No other contributor foreseen, though the system is rather complete and stable



<http://quattor.org/>