

Dalibo Labs Tools



23 novembre 2018

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TITRE : Dalibo Labs Tools

SOUS-TITRE :

DATE: 23 novembre 2018

TEMBOARD

- Manage and monitor several clusters.
- Without putting your hand in the dirt.
- UI: Python/HTML/JS server and dedicated database.
- Agent: Python HTTPS server aside Postgres cluster.
- Heavily extensible. Reduced dependencies.
- temboard.io

TEMBOARD

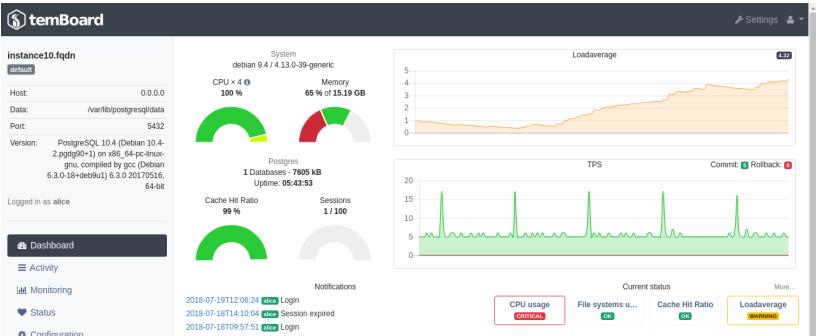


Figure 1: temBoard UI

IDEAS FOR TEMBOARD

- More monitoring metrics.
- Notify alerts by mail or webhook.
- Maintenance (schedule vacuum, rebuild, etc.).
- Raise errors and logs.
- Slow queries and execution plans.
- Manage more clusters.
- Cloud-native.

LDAP2PG

- Manage roles and/or privileges.
- *can* query LDAP.
- inspect-diff-apply loop.
- github.com/dalibo/ldap2pg

LDAP2PG.YML FOR ROLES

```
- roles:
  names: [readers, writers, owners]
  options: NOLOGIN
- ldap:
  base: ou=groups,dc=ldap,dc=ldap2pg,dc=docker
  filter: "(cn=dba)"
role:
  name: 'ldap_{member.cn}'
  options: {LOGIN: yes, SUPERUSER: yes}
```

LDAP2PG.YML FOR GRANTS

```
privileges:
  ro: [__connect__, __select_on_tables__]
  rw: [__all_on_tables__]

sync_map:
- grant:
    privilege: ro
    role: readers
- ldap:
    base: ou=groups,dc=ldap,dc=ldap2pg,dc=docker
    filter: "(cn=writers)"
grant:
  privilege: rw
  role: 'ldap_{members.cn}'
  schema: public
```

IDEAS FOR LDAP2PG

- query REST service
- add checks

PGTOOLKIT

- Support library for managing Postgres files and procs.
- Set of Python modules grouped in a single package.
- For now: conf, `pg_ident`, `pg_hba`, `.pgpass`, `pg_service`, logs.
- Python 2.6 up to 3.7. No deps.
- github.com/dalibo/pgtoolkit

IDEAS FOR PGTOOLKIT

- Improve postgres.conf: write, include, comments.
- Inspection of PGDATA (version, state, device, etc.)
- Search for running Postgres clusters on host.
- API around standard commands like postmaster, pg_ctl, initdb.

PYTHON FOR POSTGRES

- github.com/python-postgres

THANK YOU!

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