

GBV Datenbankverzeichnis

2015-11-10 (version 0.8.2)

Jakob Voß, Verbundzentrale des GBV

Overview

1	NAME	2
2	SYNOPSIS	3
3	INSTALLATION	4
4	USAGE	5
5	ADMINISTRATION	6
5.1	Configuration	6
5.2	Database Statistics	6
5.3	Logging	6
6	CHANGES	7
0.8.2	(2015-11-10)	7
0.8.1	(2015-11-09)	7
0.8.0	(2015-11-03)	7
0.7.1	(2015-10-29)	7
0.7.0	(2015-09-22)	7
0.6.0-pre	(2015-01-26)	7
7	SEE ALSO	8

1 NAME

dbinfo - GBV Datenbankverzeichnis

2 SYNOPSIS

The application is automatically started as service, listening on port 6006.

```
| sudo service dbinfo {status|start|stop|restart}
```

3 INSTALLATION

The software is released as Debian package for Ubuntu 14.04 LTS. Other Debian based distributions *might* work too. Releases can be found at <https://github.com/gbv/dbinfo/releases>

To install required dependencies either use a package manager such as gdebi, manually install dependencies (inspectable via `dpkg -I dbinfo_*.deb`):

```
sudo dpkg -i ...                # install dependencies
sudo dpkg -i dbinfo_X.Y.Z_amd64.deb  # change X.Y.Z
```

After installation the service is available at localhost on port 6006. Better put the service behind a reverse proxy to enable SSL and nice URLs! In the following a reverse proxy mapping <http://uri.gbv.de/database/> to <http://localhost:6006/> is assumed.

4 USAGE

GBV Datenbankverzeichnis provides a Linked Open Data endpoint with RDF data in several serialization forms. Serialization form can be controlled via content negotiation or via query parameter format (set to `ttl`, `json`, `rdxml`, `jsonld` for RDF or `html` for HTML by default). The RDF vocabularies are documented at a page accessible via <http://uri.gbv.de/database/ontology.html>.

A convenient data format for reuse outside of RDF applications is JSON-LD:

```
curl http://uri.gbv.de/database/amb?format=jsonld

{
  "@context" : "http://uri.gbv.de/database/dbinfo.jsonld",
  "uri" : "http://uri.gbv.de/database/amb",
  "title" : {
    "de" : "Katalog der meereswissenschaftlichen Bibliotheken Deutschlands",
    "en" : "German Association of Marine Science Libraries and Information Centers Catalog",
  },
  "dbkey" : "amb",
  "url" : "https://gso.gbv.de/DB=2.910/",
  "sru" : "http://sru.gbv.de/amb",
  "picabase" : "http://gsoapi.gbv.de/DB=2.910/",
  "openaccess" : false
}
```

Databases are grouped by prefixes which can be retrieved as JSKOS concepts.

The service further provides an OpenSearch Suggest API at `/api/dbkey` to query database prefixes:

```
curl http://uri.gbv.de/database/api/dbkey?id=opac-de-91

[
  "opac-de-91",
  ["opac-de-916"],
  ["Online-Katalog der Ostfalia Hochschule für angewandte Wissenschaften"],
  ["http://uri.gbv.de/database/opac-de-916"]
]
```

5 ADMINISTRATION

5.1 Configuration

Config file `/etc/default/dbinfo` only contains basic server configuration in form of simple key-values pairs:

- `PORT` - port number (required, 6006 by default)
- `WORKERS` - number of parallel connections (required, 5 by default).

Additional configuration is placed in `/etc/dbinfo/config.yml` with the following fields:

- `unapi` - base URL of unAPI config server to get databases from
- `proxy` - optional list of IPs or IP ranges the service can run behind (for logging the proxied request IPs instead of proxy IP).
- `base` - base URI (`http://uri.gbv.de/database/` by default)
- `stats` - directory to store statistics in (`/etc/dbinfo/stats` by default).

Restart is required after changes.

The script `/etc/dbinfo/diagram.r` is used to generate diagrams. It can be adjusted locally, so updates to this script must be applied manually!

5.2 Database Statistics

Database statistics are stored in `/etc/dbinfo/stats` (or in another directory specified in configuration) in a CSV file for each database. This directory should be backed up to retain history data. Statistics is updated daily via cronjob in `/etc/cron.daily/dbinfo`.

5.3 Logging

Log files are located at `/var/log/dbinfo/`:

- `error.log`
- `access.log`
- `mkstat.log`

6 CHANGES

0.8.2 (2015-11-10)

- fixed Debian init script
- add JSKOS output (JSON-LD) for database groups

0.8.1 (2015-11-09)

- show statistics only if available
- show version and link to GitHub
- include CSV header (requires to manually update `etc/diagram.r`)

0.8.0 (2015-11-03)

- include creation of diagrams. Update requires manually copying `etc/diagram.r` to `/etc/dbinfo`

0.7.1 (2015-10-29)

- new JSON-LD based RDF serialization
- add English titles
- include public homepage (`url` field)
- extended documentation

0.7.0 (2015-09-22)

- massive refactoring
- additional suggest endpoint at `/api/dbkey`

0.6.0-pre (2015-01-26)

- migrate to easier Debian packaging

7 SEE ALSO

The source code of dbinfo is managed in a public git repository at <https://github.com/gbv/dbinfo>. Please report bugs and feature request at <https://github.com/gbv/dbinfo/issues>!

The Changelog is located in file `debian/changelog`.

Development guidelines are given in file `CONTRIBUTING.md`.