

GBV Datenbankverzeichnis

2015-10-29 (version 0.7.1)

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	Logging	6
6	CHANGES	7
0.7.1	(2015-10-29 11:30)	7
0.7.0	(2015-09-22 12:04)	7
0.6.0-pre	(2015-01-26 14:23)	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
}
```

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).

Restart is required after changes.

5.2 Logging

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

6 CHANGES

0.7.1 (2015-10-29 11:30)

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

0.7.0 (2015-09-22 12:04)

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

0.6.0-pre (2015-01-26 14:23)

- 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`.