

Couch DB

Installation

1. Repository enablen

```
sudo apt update && sudo apt install -y curl apt-transport-https gnupg
curl https://couchdb.apache.org/repo/keys.asc | gpg --dearmor | sudo tee
/usr/share/keyrings/couchdb-archive-keyring.gpg >/dev/null 2>&1
source /etc/os-release
echo "deb [signed-by=/usr/share/keyrings/couchdb-archive-keyring.gpg]
https://apache.jfrog.io/artifactory/couchdb-deb/ ${VERSION_CODENAME} main" \
| sudo tee /etc/apt/sources.list.d/couchdb.list >/dev/null
```

2. Installieren

```
sudo apt update
sudo apt install -y couchdb
```

3. Standalone auswählen, nicht clustered

4. Magic Cookie eingeben --> **MagischerCookie1234**

5. Bind Address auf localhost belassen, weil wir es nicht öffentlich benötigen

6. Admin user erstellen --> PWD **AdminCouchDB1234!**

Fauxton

Login unter

```
http://localhost:5984/_utils/#login
```

Username: admin

Pwd: Das von oben

Über das Gui kann dann beliebig Datenbanken erstellen und verwalten

Dokument hinzufügen

1. Grünen Button für Dokument hinzufügen drücken

2. Wert angeben Beispiel:

```
{
  "_id": "00a271787f89c0ef2e10e88a0c00048b",
  "type": "movie",
```

```
"title": "Princess Mononoke",
"year": 1997,
"director": "miyazaki",
"rating": 8.4
}
```

3. Dokument speichern

Dokument abrufen Mango Query

1. Run a Query with Mango auswählen
2. Manage indexes auswählen
3. Index auf Jahre ändern, weil wir nach Jahren suchen möchten

```
{
  "index": {
    "fields": [
      "year"
    ]
  },
  "name": "year-json-index",
  "type": "json"
}
```

Vorher

Nachher

The screenshot shows two side-by-side views of the Mango Query interface. The left view, labeled 'Vorher' (Before), shows the index configuration for 'foo-json-index' with the field 'foo'. The right view, labeled 'Nachher' (After), shows the index configuration for 'year-json-index' with the field 'year'. Both views have a 'hello-world > Mango' header and an 'Examples' dropdown. The index configuration is displayed in a code editor with line numbers. Below the code editor, there are buttons for 'Create Index' and 'Edit Query'.

hello-world > Mango

Examples

Index ?

```
1 {
2   "index": {
3     "fields": [
4       "foo"
5     ]
6   },
7   "name": "foo-json-index",
8   "type": "json"
9 }
```

Create Index Edit Query

hello-world > Mango

Examples

Index ?

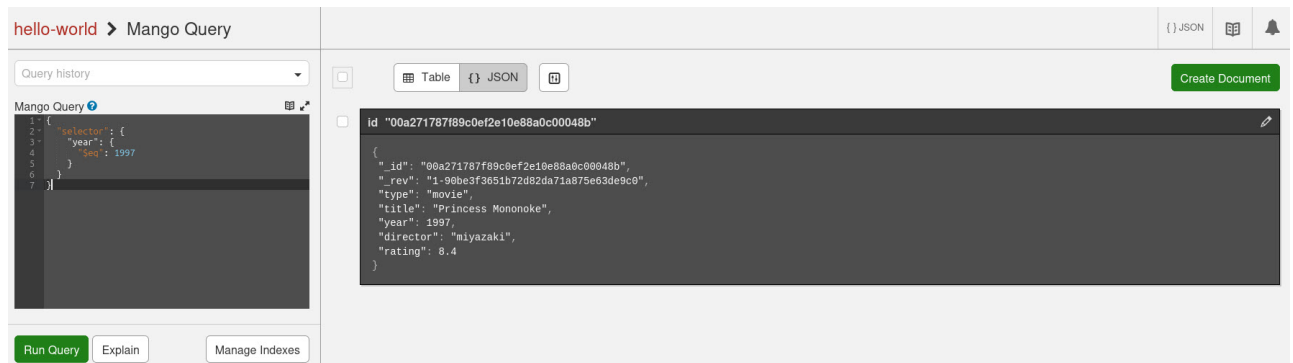
```
1 {
2   "index": {
3     "fields": [
4       "year"
5     ]
6   },
7   "name": "year-json-index",
8   "type": "json"
9 }
```

Create Index Edit Query

4. Wieder auf Edit Query drücken

5. Mango Query ändern, dass nach dem Jahr 1997 gesucht wird und mit Run Query bestätigen

```
{
  "selector": {
    "year": {
      "$eq": 1997
    }
  }
}
```



Beispiel MangoQuery, für alle Zwischen 1990 und 1980

```
{
  "selector": {
    "year": {
      "$lt": 1990,
      "$gte": 1980
    }
  }
}
```

Konsole

Hierbei muss beachtet werden, dass das ! in URL Kodierung umgewandelt wird also zu %21

Alle Datenbanken abrufen \

```
curl -X GET http://admin:AdminCouchDB1234%21@127.0.0.1:5984/_all_dbs
```

Datenbank erstellen

```
curl -X PUT http://admin:AdminCouchDB1234%21@127.0.0.1:5984/eneastestdb
```

Datenbank löschen

```
curl -X DELETE http://admin:AdminCouchDB1234%21@127.0.0.1:5984/eneastestdb
```

```
vagrant@mainVM141:~$ curl -X GET http://admin:AdminCouchDB1234%21@127.0.0.1:5984/_all_dbs
["_replicator","_users","testdb"]
vagrant@mainVM141:~$ curl -X PUT http://admin:AdminCouchDB1234%21@127.0.0.1:5984/eneastestdb
{"ok":true}
vagrant@mainVM141:~$ curl -X GET http://admin:AdminCouchDB1234%21@127.0.0.1:5984/_all_dbs
["_replicator","_users","eneastestdb","testdb"]
vagrant@mainVM141:~$ curl -X DELETE http://admin:AdminCouchDB1234%21@127.0.0.1:5984/eneastestdb
{"ok":true}
vagrant@mainVM141:~$ curl -X GET http://admin:AdminCouchDB1234%21@127.0.0.1:5984/_all_dbs
["_replicator","_users","testdb"]
```