CouchDB-Cheat-Sheet

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Abstract

Dieses Cheat-Sheet ist eine Übersicht der RESTful CouchDB-API.

1 Überblick

2 Datenbanken

2.1 Datenbankinformationen erhalten [GET]

```
curl -X GET http://127.0.0.1:5984/datenbankname
{"db_name":"datenbankname",
 "doc_count":21,
 "doc_del_count":56,
 "update_seq":454,
 "purge_seq":0,
 "compact_running":false,
 "disk_size":454750,
 "instance_start_time":"1311337314684694",
 "disk_format_version":5,
 "committed_update_seq":454}
```

2.2 Alle Datenbanken im Cluster [GET]

```
curl -X GET http://127.0.0.1:5984/_all_dbs
["_replicator","_users"]
```

2.3 Datenbank erstellen [PUT]

```
curl -X PUT http://127.0.0.1:5984/datenbankname
{"ok": true}
```

2.4 Datenbank löschen [DELETE]

```
curl -X DELETE http://127.0.0.1:5984/datenbankname
{"ok": true}
```

2.5 Datenbank replizieren [POST]

```
curl -X POST http://127.0.0.1:5984/_replicate
    -H "content-type:application/json"
    -d '{"source": "datenbankname",
        "target": "datenbankname_neu"}'
```

```
{"ok":true, "session_id":"f75eb944bac70f40e77953f484afb64c",
 "source_last_seq":36, "history":
   [{"session_id":"f75eb944bac70f40e77953f484afb64c",
     "start_time":"Thu, 14 Apr 2011 20:36:12 GMT",
     "end_time":"Thu, 14 Apr 2011 20:36:12 GMT",
     "start_last_seq":0,
     "end_last_seq":36,
     "recorded_seq":36,
     "missing_checked":0,
     "missing_found":14,
     "docs_read":14,
     "docs_written":14,
     "doc_write_failures":0
   }]
}
```

3 Dokumente

3.1 UUIDs ausgeben [GET]

(params) count=[n]

```
curl -X GET http://127.0.0.1:5984/_uuids?count=3
{"uuids":
  ["b7fc0ca7dffcc6d0f240c1e5bb000998",
   "b7fc0ca7dffcc6d0f240c1e5bb000fe8",
   "b7fc0ca7dffcc6d0f240c1e5bb001c9a"]
}
```

3.2 Alle Dokumente erhalten [GET]

(params) descending=true

3.3 Dokument erstellen [PUT]

```
curl -X PUT http://127.0.0.1:5984/datenbankname/ \
   b7fc0ca7dffcc6d0f240c1e5bb000998
{"ok":true,"id":"b7fc0ca7dffcc6d0f240c1e5bb000998",
 "rev":"1-967a00dff5e02add41819138abb3284d"}
```

3.4 Dokument erstellen [POST]

```
curl -X POST http://127.0.0.1:5984/datenbankname/
     -H "content-type: application/json"
```

```
     -d '{}'
{"ok":true,"id":"b7fc0ca7dffcc6d0f240c1e5bb000fe8",
 "rev":"1-367b00dfc5e02axd41819138abb3284d"}
```

3.5   Dokument anfragen [GET]

(params) rev=[revision], revs=true, revs_info=true

```
curl -X GET http://127.0.0.1:5984/datenbankname/ \
  b7fc0ca7dffcc6d0f240c1e5bb000998
{"_id":"b7fc0ca7dffcc6d0f240c1e5bb000998",
 "_rev":"1-367b00dfc5e02axd41819138abb3284d",
 "inhalt":"hier steht was"}
```

3.6   Dokument erweitern / aktualisieren [PUT]

```
curl -X PUT http://127.0.0.1:5984/datenbankname/ \
  b7fc0ca7dffcc6d0f240c1e5bb000998
     -d '{"_rev":"1-367b00dfc5e02axd41819138abb3284d",
          "neuer Inhalt": "kommt hier hin",
          "inhalt": "bestehender wird aktualisiert"}'
{"ok":true,"id":"7fc0ca7dffcc6d0f240c1e5bb000998",
 "rev":"2-53f21467344e4cb88384fc9e2e189049"}
```

3.7   Dokument-Attachment speichern [PUT]

(!) generell könnte auch nur die Option `--data` für eine reine Textdatei verwendet werden

```
curl -X PUT http://127.0.0.1:5984/datenbankname/ \
  b7fc0ca7dffcc6d0f240c1e5bb000998/ \
  geburtstag.txt?rev=2-53f21467344e4cb88384fc9e2e189049
     --data-binary @geburtstag.txt
     -H "content-type: text/plain;charset=utf-8"
HTTP/1.1 201 Created
Server: CouchDB/1.1.0 (Erlang OTP/R14B03)
Location: http://127.0.0.1:5984/datenbankname/ \
  b7fc0ca7dffcc6d0f240c1e5bb000998/geburtstag.txt
Etag: "3-d5171a67e9e27aeba9beac32149a86a9"
Date: Mon, 07 Feb 2011 22:53:25 GMT
Content-Type: text/plain;charset=utf-8
Content-Length: 95
Cache-Control: must-revalidate

{"ok":true,"id":"b7fc0ca7dffcc6d0f240c1e5bb000998",
 "rev":"3-d5171a67e9e27aeba9beac32149a86a9"}
```

3.8   Dokument löschen [DELETE]

```
curl -X DELETE http://127.0.0.1:5984/datenbankname/ \
  b7fc0ca7dffcc6d0f240c1e5bb000998 \
  ?rev=3-d5171a67e9e27aeba9beac32149a86a9
{"ok":true,"id":"b7fc0ca7dffcc6d0f240c1e5bb000998",
 "rev":"3-d5171a67e9e27aeba9beac32149a86a9"}
```