

z39.50/z39.50 [0,0]

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- User manual: <http://www.indexdata.com/zebra/doc/>
- Koha Indexing Configuration: <http://koha.org/documentation/manual/3.2/searching/guide-to-searching/indexing-configuration>

Zebra start i stop

```
mglavica@koha-upgrade:~$ sudo /usr/share/koha/bin/koha-zebra-ctl.sh start
Starting Zebra Server
```

```
mglavica@koha-upgrade:~$ sudo /usr/share/koha/bin/koha-zebra-ctl.sh stop
Stopping Zebra Server
```

Obnavljanje zapisa u indexu

Za to bi trebao sluÅ¼iti Zebraqueue Daemon, ali ne radi kako treba (koha-zebraqueue-ctl.sh). Umjesto toga index se rebuilda svako malo uz pomoÅ cron

Pokrenuti kao user **koha**.

```
KOHA_CONF=/etc/koha/koha-conf.xml
PERL5LIB=/usr/share/koha/lib
```

```
# m h dom mon dow  command
```

```
*/4 * * * * ps ax | grep -v grep | grep rebuild_zebra.pl || /srv/koha/misc/migration_tools/rebu
```

Dodavanje polja u pretraživanje

`etc/zebradb/marc_defs/marc21/biblios/record.abs`
mapping of MARC fields to indexes

`etc/zebradb/biblios/etc/bib1.att`
list of search indexes and their corresponding Z39.50 use attributes

`etc/zebradb/ccl.properties`
for searching purposes

UTF-8 to ASCII mappings

<http://lists.indexdata.dk/pipermail/zebralist/2007-August/001707.html>

Dijakritički znakovi

Situacija: u bazu su povučeni zapisi iz NSK (Voyager) u kojima su našla slova s dijakriticima zabilježena kao dva znaka (slovo bez dijakritika + dijakritik).

Nije lijepo da takvi znakovi završavaju u Koha bazi, ali kad su već unutra, treba ih nekako uiniti pretraživima.

U datoteku `/etc/koha/zebradb/etc/word-phrase-utf.chr` dodati ekvivalente:

git

```
# Characters to be considered equivalent for searching purposes
equivalent Ä (cë )
equivalent Ä (Cë )
equivalent Ä (cÄ´)
equivalent Ä (CÄ´)
equivalent Å; (së )
equivalent Å (Së )
equivalent Å¾ (zë )
equivalent Å½ (Zë )
```

Sad to dobro radi kad se pretražuje s "normalnim" znakovima. Ostaje problem kod browsanja preko liknova - strgani zapisi našla u samo strgane (pr.

<http://10.60.0.253/cgi-bin/koha/opac-detail.pl?biblionumber=241488>, Pavao Pavlić ić).

Zebra register i shadow

Velićinu zebra *register* i *shadow* treba podesiti sukladno velićini baze. Za oko 120.000 zapisa, dovoljno je 4G. Za FF je sada podešeno 16GB.

Z39.50 server

Dokumentacija

- <http://koha.org/documentation/manual/3.0/administration/additional-parameters/z39.50-servers>
- <http://lists.indexdata.dk/pipermail/zebralist/2009-March/002142.html>
- <http://bugs.rot13.org/rt/Ticket/Display.html?id=377>

Ali sve je uzalud jer je pravi odgovor na <http://www.indexdata.com/zebra/doc/zebrasrv.html>

The first two servers, "server1" and "server2", can be reached by both listener addresses - since no listenref attribute is specified.

Pravo rjeÅ¡enje

Z39.50

test-yaz-zebra.sh

Server

sluÅ¾bi za razmjenu zapisa

Konfiguracija

Dodati novi public server prema uputama na

http://wiki.koha-community.org/wiki/Troubleshooting_Koha_as_a_Z39.50_server

Dokumentacija

- http://wiki.koha-community.org/wiki/Search_Info

Najkorisnije:

- <http://www.indexdata.com/zebra/doc/zebrasrv.html> (pri dnu stranice)

Ostalo:

- <http://koha.org/documentation/manual/3.0/administration/additional-parameters/z39.50-servers>
- <http://lists.indexdata.dk/pipermail/zebralist/2009-March/002142.html>
- <http://bugs.rot13.org/rt/Ticket/Display.html?id=377>

FFZG

yaz-client

```
dpavlin@koha-dev:~$ yaz-client
Z> open localhost:9999/biblios
Connecting...OK.
Sent initrequest.
Connection accepted by v3 target.
```

```
ID      : 81
Name    : Zebra Information Server/GFS/YAZ
Version: 3.0.52 e687cb7eb87c841f0d1a374174d51d30371f2d97
Options: search present delSet triggerResourceCtrl scan sort extendedServices namedResultSets
Elapsed: 1.605266
Z> find human
Z> show 1
Z> quit
See you later, alligator.
```

Use Koha's CCL queries:

```
dpavlin@koha-dev:~$ yaz-client -c /etc/koha/zebradb/ccl.properties localhost:9999/biblios
Connecting...OK.
Sent initrequest.
Connection accepted by v3 target.
ID      : 81
Name    : Zebra Information Server/GFS/YAZ
Version: 4.1.7 c43e561fdfe12989a6040163dae0e28ba0a02453
Options: search present delSet triggerResourceCtrl scan sort extendedServices namedResultSets
Elapsed: 0.001445
Z> querytype ccl2rpn
Z> find (kw,wrdl,rtrn=human ) not Suppress=1
Sent searchRequest.
Received SearchResponse.
Search was a success.
Number of hits: 1935, setno 1
SearchResult-1: term=      human cnt=1935, term=      1 cnt=21
records returned: 0
Elapsed: 0.025643
Z>
```

Debug Zebra problems

enable all logging

```
# add all to http://www.loc.gov/z3950/agency/defns/bib1diag.html
ZEBRAOPTIONS="-v none,fatal,warn,all"
```

```
dpavlin@koha-dev:~$ sudo /etc/init.d/koha-zebra-ctl.sh restart
Restarting the Zebra Server
```

```
dpavlin@koha-dev:~$ sudo tail -f /var/log/koha/koha-zebradaemon-output.log | grep ERROR
18:45:58-29/03 zebrasrv(1) 605aecf5 [request] Init ERROR 1011 ID:81 Name:ZOOM-C/YAZ Version:4.1.7
```

Lookup error codes at <http://www.loc.gov/z3950/agency/defns/bib1diag.html>

Problemi

Neki zapisi nestaju u katalogu

Nepoznat obrazac u zapisima koji fale.

Nagađanja 1:

da li su problematični oni zapisi koji imaju različite bibliotekne brojeve i bibliotekne brojeve?

To je dozvoljena kombinacija, ne bi trebalo smetati.

Problem je u nečemu drugom, no ipak smo odlučili ili te zapise poindeksirati ponovo, ovako:

```
mysql> create temporary table foo as select max(id) as id from zebraqueue join biblioitems on biblioitems.bib1=zebraqueue.bib1;
mysql> update zebraqueue set done = 0 where id in (select id from foo);
```

Nakon toga pokrenuti `rebuild_zebra.pl`.

I dalje postoje zapisi koji se ne vide u katalogu.

Ovo javi kad se poindeksiraju svi zapisi s `rebuild_zebra.pl -b -v -r`:

```
00:24:15-02/02 zebraidx(1490) [log] Records: 238000 i/u/d 238000/0/0
00:24:19-02/02 zebraidx(1490) [log] MARC: Bad directory
00:24:19-02/02 zebraidx(1490) [warn] MARC: Base address does not follow directory
00:24:19-02/02 zebraidx(1490) [warn] MARC: Bad offsets in data. Skipping rest
00:24:19-02/02 zebraidx(1490) [warn] Record didn't contain match fields in (bib1,Local-number)
00:24:19-02/02 zebraidx(1490) [log] error grs.marcxml.record /tmp/gdqck1EhgW/biblio/exported_rec...
00:24:31-02/02 zebraidx(1490) [log] Merge 0.4% completed; 38 minutes remaining
```

Nagađanja 2:

Potrgan MARC

- napraviti dump MARC zapisa iz Kohe (uz pomoć WebPAC2)
- provjeriti s `marclint`

Dupljanje zapisa u zebri

```
mglavica@koha:/etc/koha/zebradb$ diff -u /srv/koha/etc/zebradb/biblios/etc/bib1.att biblios/etc/bib1.att
--- /srv/koha/etc/zebradb/biblios/etc/bib1.att 2010-02-20 21:41:34.000000000 +0100
+++ biblios/etc/bib1.att 2010-02-22 05:48:19.000000000 +0100
@@ -56,7 +56,7 @@
 att 51 Number-music-publisher
 att 52 Number-db
 att 53 Number-local-call
-att 54 ln
+att 54 language
 att 55 Code-geographic
 att 56 Code-institution
 att 57 Name-and-title
```

Out of memory

- http://old.nabble.com/reindex_zebra.pl---out-of-memory-td19315345.html