Independent University

Bangladesh (IUB)

IUB Academic Repository

IUB Library

Presentation

2013-09-03

Training on Koha Integrated Library System (ILS) Organized by BALID

Ahammad, Nur

IUB Library

https://ar.iub.edu.bd/handle/11348/414 Downloaded from IUB Academic Repository

Training on Koha Integrated Library System (ILS) Organized by BALID



3-7 September 2013

- Installation of Koha on Debian
- Post Installation of Koha
- OPAC Customization
- Some Important Commands of Mysql

Prepared By Nur Ahammad Junior Assistant Librarian Independent University, Bangladesh Add root password and create koha as a user and enter password for koha At the time of Debian installation. While installing Debian, select web server Desktop Environment & Standard System options. Do not select Print Server, DNS Server, File Server, Mail Server and SQL Options.

Log in as root user or go root sudo su

Add Koha User

root@localhost:~#adduser koha

If you are behind proxy, first setup your proxy

root@localhost:~#export http proxy=http://example.com:8008

Add source list

root@localhost:~#nano /etc/apt/sources.list

Comment or erase all and add the following:

```
deb http://security.debian.org/ squeeze/updates main contrib
deb-src http://security.debian.org/ squeeze/updates main contrib non-
free
deb http://http.us.debian.org/debian/ squeeze contrib non-free main
deb-src http://http.us.debian.org/debian/ squeeze contrib non-free main
deb http://debian.koha-community.org/koha squeeze main
```

Upgrade the Software.

root@localhost:~#sudo apt-get update
root@localhost:~#sudo apt-get dist-upgrade

Create koha environment:

```
root@localhost:~#gedit /etc/profile
```

and add the following lines:

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

Add Listen port 8080 in /etc/apache2/ports.conf

```
root@localhost:~#gedit /etc/apache2/ports.conf
Listen 8080
```

Download Koha

root@localhost:/home/koha#wget <u>http://download.koha-community.org/kohalatest.tar.gz</u> root@localhost:/home/koha#tar -xzvf koha-latest.tar.gz root@localhost:/home/koha#cd koha-3.12.04

Install dependencies: root@localhost:/home/koha/koha-3.12.04# apt-get install dselect

root@localhost:/home/koha/koha-3.12.04#dpkg --set-selections <
/home/koha/koha- version/install_misc/ubuntu.12.04.packages</pre>

O Applications Places System 🔊 🐼	🎾 Sun Sep 1, 2:58 PM 🌒 🔳
Terminal (as superuser)	
Elle Edit View Jerminal Tabs Help	
rerminal X Terminal	×
Perminal Callect' package handling frontend version 1.15.8.13 (amd64). O. [A]ccess Choose the access method to use. I. [U]pdate List of available packages, if possible. S. [E]eneve Locate and upprade avanted packagess A. [C]origue any packages that are unconfigured. S. [R]emove Remove unvanted software. G. [Q]uit Quit dselect. Rove around with ^P and ^N, cursor keys, initial letters, or digits; Press <enter> to confirm selection. ^L redraws screen. Copyright (C) 1994-1996 Ian Jackson. Copyright (C) 2000, 2000 Wichert Akkerman. This is free software; see the GNU General Public License version 2 or later for copying conditions. There is NO warranty.</enter>	
	5
📷 🛛 🗾 Terminal (as superuser) 🛛 💓 Download Koha Offi)	

Check which dependencies are not installed

root@localhost:/home/koha/koha-3.12.04#./koha_perl_deps.pl -m -u

O Applications Places System 🔊 🔗				🔎 Sun Sep 1, 3:14 PM 🕼 🌒 🔳
<u>F</u> ile <u>E</u> dit ⊻iew]erminal Ta <u>b</u> s <u>H</u> elp				
Terminal			🗶 Terminal	×
root@localhost:/home/koha/koha-3.12.04#	. /koha_perl_deps.pl	-m -u	-	
Module Name	Installed Version	Required Version	Module is Required	
File::Slurp	0 *	9999.13	No Y	
Test::WWW::Mechanize	0 *	1.44	No	
Archive: : Extract	0.34 *	0.60	No	
JSON: : Any	1.22 *	1.28	No	
1odule::Load::Conditional	0.30 *	0.38	No	
looseX::Storage	0.27 *	0.30	No	
looseX::Types	0.22 *	0.30	No	
String::RewritePrefix	0.005 *	0.006	No	
Tetal and las provided 0	w weekle is			
Totat modules reported. 5	- Hodute is	missing or require	s an upgrade.	
root@localhost:/home/koha/koha-3.12.04#				
			2	
			PG	
				l
📷 📗 Terminal (as superuser) 🛛 👸 Dow	nload Koha Offi	Untitled 1 - Open	offi	

Install remaining dependencies by using cpan

```
root@localhost:#cpan
cpan[2]> install Data:Pagination
.......
```

If Cpan do not work without proxy, set proxy
cpan[2]> o conf init /proxy/

```
Create Koha database
root@localhost:#mysql -u root -p
create database koha;
exit
```

After installing all dependencies and creating koha database compile koha for installation

```
root@localhost:/home/koha/koha-3.12.04#perl Makefile.PL
```

After running the above command you have to answer some questions.

Installation mode (dev, single, standard) [standard] Base installation directory [/usr/share/koha] User account [koha] Group [koha] DBMS to use (Pg, mysql) [mysql] Database server [localhost] Please specify the port used to connect to the DMBS [3306] used by Koha [koha] used by Koha [kohaadmin] root database to be used by Koha [katikoan] Install the Zebra configuration files? (no, yes) [yes] MARC format for Zebra indexing (marc21, normarc, unimarc) [marc21] Primary language for Zebra indexing (en, es, fr, nb, ru, uk) [en] Bibliographic indexing mode (dom, grs1) [dom] Authorities indexing mode (dom, grs1) [dom]

characters. (chr, icu) [chr]

Please specify Zebra database user [kohauser]

Please specify the Zebra database password [zebrastripes]

Install the SRU configuration files? (no, yes) [yes]

SRU Database host? [localhost]

SRU port for bibliographic data? [9998]

SRU port for authority data? [9999]

Install the PazPar2 configuration files? [no]

You will need a Memcached server running. (no, yes) [no]

📿 Applications Places System 👧 📸	🔎 Sun Sep 1, 4:25 PM 🏟 🔳
Terminal (as superuser)	
<u>Eile Edit View Terminal Tabs H</u> elp	
Terminal X Terminal	×
unable to locate Koha configuration file koha-conf.xml at /home/koha/koha-3.12.04/C4/Context.pm line 373.	<u>^</u>
By default, Koha can be installed in one of three ways:	
standard: Install files in conformance with the Filesystem Hierarchy Standard (FHS). This is the default mode and should be used when installing a production Koha system. On Unix systems, root access is needed to complete a standard installation.	
single: Install files under a single directory. This option is useful for installing Koha without root access, e.g., on a web host that allows CGI scripts and MySQL databases but requires the user to keep all files under the user's HOME directory.	
dev: Create a set of symbolic links and configuration files to allow Koha to run directly from the source distribution. This mode is useful for developers who want to run Koha from a git clone.	
Installation mode (dev, single, standard) [standard]	
Please specify the directory under which most Koha files will be installed.	
Note that if you are planning in installing more than one instance of Koha, you may want to modify the last component of the directory path, which will be used as the package name in the FHS layout.	
Base installation directory [/usr/share/koha]	
Since you are using the 'standard' install mode, you should run 'make install' as root. However, it is recommended that a non-root user (on Unix and Linux platforms) have ownership of Koha's files, including the Zebra indexes if applicable.	
Please specify a user account. This user account does not need to exist right now, but it needs to exist before you run 'make install'. Please note that for security reasons, this user should not be the same as the user account Apache runs under.	=
User account [koha] []	
🐻 🔳 Terminal (as superuser) 👔 [Download Koha Offi] 📳 Untitled 1 - OpenOffic] 📄 MONIR - File Browser 🛛 📳 KohalnstallBALID.doc	

Applications Places System		🔎 Sun Sep 1, 4:29 PM 📢 🕅	<u>}</u>
	Terminal (as superuser)		
<u>File Edit View Jerminal labs H</u> elp	Trustical		~
to store data in Koha. The choices are MySQL and PostgreSQL; please note that at the moment PostgreSQL support is bighly experimental			^
DBMS to use (Pg, mysql) [mysql]			
Please specify the name or address of your database server. Note that the database does not have to exist at this point, it can be created after running 'make install' and before you try using Koha for the first time.			
Database server [localhost]			
Please specify the port used to connect to the DMBS [3306]			
Please specify the name of the database to be used by Koha [koha]			
Please specify the user that owns the database to be used by Koha [kohaadmin] root			
Please specify the password of the user that owns the database to be used by Koha [katikoan] ahammadnurbelal			
Koha can use the Zebra search engine for high-performance searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine.			
Please note that if you choose *NOT* to install Zebra, koha-conf.xml will still contain some references to Zebra settings. Those references will be ignored by Koha.			
Install the Zebra configuration files? (no, yes) [yes]			
Found 'zebrasrv' and 'zebraidx' in /usr/bin.			
Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the			
O Applications Places System 🔊 🗟		🔎 Sun Sep 1, 4:29 PM 📢	2
Eile Edit View Terminal Tabe Help	Terminal (as superuser)	80	9 🛛
	X Terminal		*
Koha can use the Zebra search engine for high-performance			
searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine.			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-conf.xml will still contain some references to Zebra settings. Those references will be ignored by Koha.</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-conf.xml will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes]</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-conf.xml will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin.</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-conf.xml will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra.</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-conf.xnl will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra. Koha provides Zebra configuration files for MARC21, NORMARC And UNITMAC.</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-conf.xml will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra. Koha provides Zebra configuration files for MARC21, NORMARC and UNIMARC. MARC format for Zebra indexing (marc21, normarc, unimarc) [marc21]</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-conf.xml will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra. Koha provides Zebra configuration files for MARC21, NORMARC and UNIMARC. MARC format for Zebra indexing (marc21, normarc, unimarc) [marc21] Koha supplies Zebra configuration files tuned for searching either English (en) or French (fr) MARC</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-coff.xnl will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra. Koha provides Zebra configuration files for MARC21, NORMARC and UNIMARC. MARC format for Zebra indexing (marc21, normarc, unimarc) [marc21] Koha supplies Zebra configuration files tuned for searching either English (en) or French (fr) MARC records. Primary language for Zebra indexing (en, es, fr, nb, ru, uk) [en]</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Pleases note that if you choose *NOT* to install Zebra, koha-conf.ral will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra. Koha provides Zebra configuration files for MARC21, NORMARC and UNIMARC. MARC format for Zebra indexing (marc21, normarc, unimarc) [marc21] Koha supplies Zebra configuration files tuned for searching either English (en) or French (fr) MARC records. Primary language for Zebra indexing (en, es, fr, nb, ru, uk) [en] Koha can use one of two different indexing modes for the MARC bibliographic records:</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-coft.rall will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra. Koha provides Zebra configuration files for MARC21, NORMARC and UNITMAC. MARC format for Zebra indexing (marc21, normarc, unimarc) [marc21] Koha supplies Zebra configuration files tuned for searching either English (en) or French (fr) MARC records. Primary language for Zebra indexing (en, es, fr, nb, ru, uk) [en] Koha can use one of two different indexing modes for the MARC bibliographic records: grs1 - uses the Zebra GRS-1 filter, available for legacy support dom - uses the DOH XML filter; offers improved functionality.</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-conf.xnl will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra. Koha provides Zebra configuration files for MARC21, NORMARC and UNIMARC. MARC format for Zebra indexing (marc21, normarc, unimarc) [marc21] Koha supplies Zebra configuration files tuned for searching either English (en) or French (fr) MARC records. Primary language for Zebra indexing (en, es, fr, nb, ru, uk) [en] Koha can use one of two different indexing modes for the MARC bibliographic records: grs1 - uses the Zebra GRS-1 filter, available for legacy support dom - uses the DOR XML filter; offers improved functionality. Bibliographic indexing mode (dom, grs1) [dom]</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-conf.xml will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra. Koha provides Zebra configuration files for MARC21, NORMARC and UNIMARC. MARC format for Zebra indexing (marc21, normarc, unimarc) [marc21] Koha supplies Zebra configuration files tuned for searching either English (en) or French (fr) MARC records. Primary language for Zebra indexing (en, es, fr, nb, ru, uk) [en] Koha can use one of two different indexing modes for the MARC bibliographic records: grs1 - uses the Zebra GRS-1 filter, available for legacy support dom - uses the DOM XML filter; offers improved functionality. Bibliographic indexing mode (dom, grs1) [dom] Koha can use one of two different indexing modes for the MARC authorities records:</pre>			
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Please note that if you choose *NOT* to install Zebra, koha-conf.xnl will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra. Koha provides Zebra configuration files for MARC21, NORMARC and UNITMAC. MARC format for Zebra indexing (marc21, normarc, unimarc) [marc21] Koha supplies Zebra configuration files tuned for searching either English (en) or French (fr) MARC records. Primary language for Zebra indexing (en, es, fr, nb, ru, uk) [en] Koha can use one of two different indexing modes for the MARC bibliographic records: grs1 - uses the Zebra GRS-1 filter, available for legacy support dom - uses the DOM XML filter; offers improved functionality. Bibliographic indexing mode (dom, grs1) [dom] Koha can use one of two different indexing modes for the MARC authorities records: grs1 - uses the Zebra GRS-1 filter, available for legacy support dom = uses the Zebra GRS-1 filter, available for legacy support dom = uses the Zebra GRS-1 filter, available for legacy support dom = uses the Zebra GRS-1 filter, available for legacy support dom = uses the Zebra GRS-1 filter, available for legacy support dom = uses the Zebra GRS-1 filter, available for legacy support dom = uses the Zebra GRS-1 filter, available for legacy support dom = uses the Zebra GRS-1 filter, for improved functionality.</pre>			H.
<pre>searching of bibliographic and authority records. If you have installed the Zebra software and would like to use it, please answer 'yes' to the following question. Otherwise, Koha will default to using its internal search engine. Pleases note that if you choose *NOT* to install Zebra, koha-conf.ral will still contain some references to Zebra settings. Those references will be ignored by Koha. Install the Zebra configuration files? (no, yes) [yes] Found 'zebrasrv' and 'zebraidx' in /usr/bin. Since you've chosen to use Zebra with Koha, you must specify the primary MARC format of the records to be indexed by Zebra. Koha provides Zebra configuration files for MARC21, NORMARC and UNIMARC. MARC format for Zebra indexing (marc21, normarc, unimarc) [marc21] Koha supplies Zebra configuration files tuned for searching either English (en) or French (fr) MARC records. Primary language for Zebra indexing (en, es, fr, nb, ru, uk) [en] Koha can use one of two different indexing modes for the MARC bibliographic records: grs1 - uses the Zebra GRS-1 filter, available for legacy support dom - uses the OX ML filter; offers improved functionality. Bibliographic indexing mode (dom, grs1) [dom] Koha can use one of two different indexing modes for the MARC authorities records: grs1 - uses the Zebra GRS-1 filter, available for legacy support dom - uses the DOM XML filter; offers improved functionality. Bibliographic indexing mode (dom, grs1) [dom] Koha can use one of two different indexing modes for the MARC authorities records: grs1 - uses the Zebra GRS-1 filter, available for legacy support dom - uses the DOM XML filter; offers improved functionality. Authorities indexing mode (dom, grs1) [dom] [</pre>			

📿 Applications Places System 🔊 🚲		🔎 Sun Sep 1, 4:29 PM 📢 🕅 🔳
	Terminal (as superuser)	
<u>File E</u> dit <u>V</u> iew Terminal Ta <u>b</u> s <u>H</u> elp		
Terminal	X Terminal	×
Koha supplies Zebra configuration files tuned for searching either English (en) or French (fr) MARC records.		
Primary language for Zebra indexing (en, es, fr, nb, ru, uk) [en]		
Koha can use one of two different indexing modes for the MARC bibliographic records:		
grsl - uses the Zebra GRS-1 filter, available for legacy support dom - uses the DOM XML filter; offers improved functionality.		
Bibliographic indexing mode (dom, grsl) [dom]		
Koha can use one of two different indexing modes for the MARC authorities records:		
grs1 - uses the Zebra GRS-1 filter, available for legacy support dom - uses the DOM XML filter; offers improved functionality.		
Authorities indexing mode (dom, grsl) [dom]		
Zebra has two methods to perform records tokenization and characters normalization: CHR and ICU. ICU is recommended for catalogs containing non-Latin characters. (chr. icu) [chr]		
Please specify Zebra database user [kohauser]		
Please specify the Zebra database password [zebrastripes]		
Since you've chosen to use Zebra, you can enable the SRU/ 239:50 Server if you so chose, but you must specify a few configuration options for it.		
Please note that if you choose *NOT* to configure SRU, koha-conf.xml vill still contain some references to SRU settings. Those references xill be ignored by Koha.		
Install the SRU configuration files? (no, yes) [yes]		=
O Applications Places System 🕢 🐼		🔎 Sun Sep 1, 4:33 PM 🕼 🕅
	Terminal (as superuser)	
rine Ean View Jerminal lags Telp		
Bibliographic indexing mode (dom. grsl) [dom]		~
Koha can use one of two different indexing modes for the MARC authorities records:		
grsl - uses the Zebra GRS-1 filter, available for legacy support dom - uses the DOM XML filter; offers improved functionality.		
Authorities indexing mode (dom, grsl) [dom]		
Zebra has two methods to perform records tokenization and characters normalization: CHR and ICU. ICU is recommended for catalogs containing non-Latin characters. (chr. icu) [chr]		
Please specify Zebra database user [kohauser]		
Please specify the Zebra database password [zebrastripes]		
Since you've chosen to use Zebra, you can enable the SRU/ Z39.50 Server if you so choose, but you must specify a few configuration options for it.		
Please note that if you choose *NOT* to configure SRU, koha-conf.xml will still contain some references to SRU settings. Those references will be ignored by Koha.		
Install the SRU configuration files? (no, yes) [yes]		
SPU Database best? []ecalbest]		
Sho bacabase host: [cocachost]		
SRU port for bibliographic data? [9998]		
SRU port for bibliographic data? [9998] SRU port for authority data? [9999]		
SRU port for bibliographic data? [9998] SRU port for authority data? [9999] Since you've chosen to use Zebra, you can also choose to install PazPar2, which is a metasearch tool. With PazPar2, Koha can perform on-the-fly merging of bibliographic records during searching, allowing for FRBRization of the results list.		
SRU port for bibliographic data? [9998] SRU port for authority data? [9999] Since you've chosen to use Zebra, you can also choose to install PazPar2, which is a metasearch tool. With PazPar2, Koha can perform on-the-fly merging of bibliographic records during searching, allowing for FRBRization of the results list. Install the PazPar2 configuration files? [no]		
SRU port for bibliographic data? [9998] SRU port for authority data? [9999] Since you've chosen to use Zebra, you can also choose to install PazPar2, which is a metasearch tool. With PazPar2, Koha can perform on-the-fly merging of bibliographic records during searching, allowing for FRBRization of the results list. Install the PazPar2 configuration files? [no] Use memcached and memoize to cache the results of some function calls? This provides a significant performance improvement. You will need a Memcached server running. (no, yes) [no]		=

root@localhost:/home/koha/koha-3.12.04#make

root@localhost:/home/koha/koha-3.12.04#make test

Test Result should be successful

/koha/koha-3.12.04/t/../C4/SIP/Sip/Checksum.pm line 24. t/SIP Sip.t ok t/SMS.t ok t/SocialData.t ok t/Stats.t ok t/SuggestionEngine.t ok t/SuggestionEngine AuthorityFile.t .. ok t/Templates.t ok t/TmplToken.t ok t/Utils.t ok t/VirtualShelves Merge.t ok t/XSLT.t ok All tests successful. Files=93, Tests=8342, 24 wallclock secs (1.22 usr 0.14 sys + 18.86 cusr 1.38 csys = 21.60 CPU) Result: PASS

root@localhost:/home/koha/koha-3.12.04#make install

Koha's files have now been installed. In order to use Koha's command-line batch jobs, you should set the following environment variables:

export KOHA_CONF=/etc/koha/koha-conf.xml export PERL5LIB=/usr/share/koha/lib For other post-installation tasks, please consult the README

Apache charset should be Unicode

root@localhost:~#nano /etc/apache2/conf.d/charset
 AddCharset UTF-8 .utf8
 AddDefaultCharset UTF-8

Make link Apacche to Koha

root@localhost:~#ln -s /etc/koha/koha-httpd.conf /etc/apache2/sitesavailable/koha

Enable Koha site and rewrite
root@localhost:~#a2enmod rewrite
root@localhost:~#a2ensite koha

Then Reload/Restart apache2

root@localhost:~#/etc/ini.d/apache2 restart

Add zebra in startup

root@localhost:~#ln -s /usr/share/koha/bin/koha-zebra-ctl.sh
/etc/init.d/koha-zebra-daemon
root@localhost:~#update-rc.d koha-zebra-daemon defaults

Now Start koha web installation by pointing :http://localhost:8080

If you do not able to start koha web installation, check the address and password in koha web configuration file and database connection configuration file

nano /etc/koha/koha-httpd.conf
nano /etc/koha/koha-conf.xml
At first you should get the following screen

Walcome to the Koha w	ob installor
welcome to the Kona w	eb mstaner
Before we begin, please verify you h	ave the correct
credentials to continue. Please log in	n with the username
and password given to you by your a administrator and located in your k	systems oha-conf.xml
configuration file.	
Please enter your username and pas	ssword:
Username:	
Password:	

Select Language and Click next



If all dependencies installed, click next





Database settings:

- database type : mysql
- database name : koha
- database host : localhost
- database port : 3306 (probably OK if blank)
- database user : root

Please click 'Next' to continue if this information is correct Next>>

Click Next



Start basic configuration settings



Select MARC21 and Click Next

Skoha Web installer > Step 3
Select your MARC flavor
 Marc21 O Unimarc
Click 'Next' to continue Next>>

Ensure all mandatory options are cheeked and also import some optional data



Selecting Default Settings

MARC frameworks: MARC21

Mandatory

- Default MARC21 Standard Authority types:
 - Personal Name Corporate Name Meeting Name Uniform Title Chronological Term Topical Term Geographic Name Genre/Form Term

Optional

Selected matching rules for MARC 21 bibliographic records, including:

```
ISBN
ISSN
(marc21_default_matching_rules)
```

- I'FA', a 'Fast Add' minimal MARC21 framework suitable for ILL or on-the-fly cataloguing. (marc21_fastadd_framework)
- Simple MARC 21 bibliographic frameworks for some common types of bibliographic material. Frameworks are used to define the structure of your MARC records and the behavior of the integrated MARC editor. You can change these at any time after installation. The frameworks in this optional default setting include:

BKS Books, Booklets, Workbooks CF CD-ROMs, DVD-ROMs, General Online Resources SR Audio Cassettes, CDs VR DVDs, VHS AR Models KT Kits IR Binders SER Serials (marc21_simple_bib_frameworks)

Other data

Mandatory

- Default Koha system authorised values (auth_values)
- Default classification sources and filing rules (class_sources)
- Defines default message tranports for email and sms.

(message_transport_types)

- Sample notices (sample_notices)
- Defines default messages for the enhanced messaging configuration. (sample_notices_message_attributes)
- Defines default message transports for sending item due messages and advance notice messages through email and SMS. (sample_notices_message_transports)
- English stop words. You can change this after installation. (stopwords)
- 🛛 Koha I18N support

BIDI Stuff, Arabic and Hebrew Default mappings between script and language subcodes Language extensions (subtag_registry)

 Default user permissions flags (userflags)

Optional

- Some basic default authorised values for library locations, item lost status, etc. You can change these at any time after installation. (auth_val)
- Coded values conforming to the Z39.71-2006 holdings statements for bibliographic items. Refer to http://www.niso.org/standards/index.html for details. (marc21_holdings_coded_values)
- MARC code list for relators, as of http://www.loc.gov/marc/relators/relaterm.html (marc21_relatorterms)
- Some basic settings including USD currency, and a sampling of Z39.50 servers. (parameters)
- Useful patron atribute types:
 * SHOW_BCODE Show barcode on the patron summary screen items listings (patron_atributes)
- Sample patron types and categories:

Type: Categories:

Adult patron - default patron type PT - Patron ST - Student BH - Homebound

Child - patron with a guarantor K - Kid J - Juvenile

Types are currently hardcoded, but you can add/edit/delete categories after installation from the administration module. (patron_categories) Sample label and patron card data (sample_creator_data) Sample holidays: Sundays Christmas New Year's (sample_holidays) A set of default item types. (sample_itemtypes) A few sample libraries (sample_libraries) Sample news items (sample_news) Sample patrons (sample_patrons) Sample quotes (sample_quotes) LIBRARY OF CONGRESS COLUMBIA UNIVERSITY SMITHSONIAN INSTITUTION LIBRARIES

When you've made your selections, please click 'Import' below to begin the process. It may take a while to complete, please be patient.

Import >>

(sample_z3950_servers)



All done! Log in to Koha by using mysql koha database username and password.

Post Installation

Setup cron jobs of koha to properly in production system root@localhost:~#cd /usr/share/koha/bin/cornjobs/ crontab -u koha crontab.example root@localhost:~#crontab -e Ensure the followings: ## SETUP ENVITRONMENT VARIABLES ## # See: /etc/environment and /etc/bash.bashrc PERL5LIB=/usr/share/koha/lib KOHA CONF=/etc/koha/koha-conf.xml ## FINES ## @hourly /usr/share/koha/bin/cronjobs/fines.pl ## ADVANCE NOTICES ## # Enable "EnhancedMessagingPreferences" system preference using the staff web client, then uncomment below #@hourly /usr/share/koha/bin/cronjobs/advance notices.pl -c ## PRINT NOTICES ## @hourly /usr/share/koha/bin/cronjobs/gather print notices.pl /var/www ## SEND EMAILS ## @hourly /usr/share/koha/bin/cronjobs/process message queue.pl ## HOURLY HOLDS ## @hourly /usr/share/koha/bin/cronjobs/holds/build holds queue.pl ## EXPIRED HOLDS ## @hourly /usr/share/koha/bin/cronjobs/holds/cancel expired holds.pl ## CART TO SHELF UPDATE ## @hourly /usr/share/koha/bin/cronjobs/cart to shelf.pl -h 8 ## RSS FEEDS ## # Check config files in /usr/share/koha/bin/cronjobs/rss/ and apply as required, then uncomment below #@hourly /usr/share/koha/bin/cronjobs/rss/rss.pl /usr/share/koha/bin/cronjobs/rss/lastAcquired.conf ## UPDATE SERIALS ## @hourly /usr/share/koha/bin/cronjobs/serialsUpdate.pl ## BUILD BROWSER CONTENT ## # Define cloud an browser fields, then uncomment below #@hourly /usr/share/koha/bin/cronjobs/build browser and cloud.pl -b -c ## DATABASE CLEANUP ##

@hourly /usr/share/koha/bin/cronjobs/cleanup database.pl --sessions -zebraqueue 10 ## UPDATE ISSUES ## @daily /usr/share/koha/bin/cronjobs/update totalissues.pl --commit=1000 -use-stats --incremental --interval=1d ## DELETE OLD PURCHASE SUGGESTIONS ## @weekly /usr/share/koha/bin/cronjobs/purge suggestions.pl --days 14 ## OVERDUE NOTICES ## @monthly /usr/share/koha/bin/cronjobs/overdue notices.pl -t ## PROCESS LONG OVERDUES ## # updates item status from available to longoverdue for items long overdue @monthly /usr/share/koha/bin/cronjobs/longoverdue.pl --lost 90=1 --confirm ## CHECK URL's ## @monthly /usr/share/koha/bin/cronjobs/check-url.pl ## BUILD CLOUD KEYWORDS ## # Check the /usr/share/koha/bin/cronjobs/cloud-sample.conf file and adjust, then uncomment below to enable #@monthly /usr/share/koha/bin/cronjobs/cloud-kw.pl -conf=/usr/share/koha/bin/cronjobs/cloud-sample.conf ## SERVICES THROTTLE ## 59 23 * * * /usr/share/koha/bin/cronjobs/services throttle.pl

Add some free MARC record in koha-

http://www.gutenberg.org/wiki/Gutenberg:Offline_Catalogs

http://archive.org/details/marc_lendable_books

After adding some records in koha try this for zebra indexing

root@localhost:~#cd /usr/share/koha/bin/migration_tools/

./rebuild_zebra.pl -b -w

There are some alternative ways to install Koha's dependencies. In Training kits, we provide a DVD which has all dependencies of koha in .deb file extension. You can install all .deb file with one command.

First in enter in the directory which contain .deb files

root@localhost:~#cd /media/cdrom/ KohaDebPackages/

root@localhost:/media/cdrom/KohaDebPackages# dpkg -i *.deb

Koha OPAC Customization:

You can customize your OPAC page according to your choice. From Systempreference in koha you can do it easily.

- <u>opacbookbag</u> : Decide if patrons can save items into their cart
- <u>OPACXSLTResultsDisplay</u> : Decide if you want to use the XSLT stylesheets on the OPAC search results
- <u>OPACXSLTDetailsDisplay</u> : Decide if you want to use the XSLT stylesheets on the bib records in the OPAC
- <u>LibraryName</u>: Enter your library name for display in the <title> tag and on the top of the OPAC
- opacsmallimage : Choose a logo to replace the Koha logo
- <u>opaccredits</u> : Enter HTML to appear at the bottom of every page in the OPAC
- <u>OpacMainUserBlock</u> : Enter HTML that will appear in the center of the main OPAC page
- OpacNay : Enter HTML that will appear to the left on the main OPAC page
- <u>OpacNavBottom</u> : Enter HTML that will appear below OpacNav
- o <u>opacheader</u> : Enter the HTML that will appear above the search box on the OPAC
- <u>OPACNoResultsFound</u> : Enter the HTML that will appear when no results are found
- <u>OPACResultsSidebar</u> : Enter the HTML that will appear below the facets on your search results
- <u>OPACMySummaryHTML</u> : Enter the HTML that will appear in the far right of the circulation summary in the OPAC
- Customize your stylesheets:
 - <u>OPACUserCSS</u> : Enter any additional fields you want to define styles for
 - <u>opaclayoutstylesheet</u> : Point to a CSS file on your Koha server
 - <u>opacstylesheet</u> : If you have a custom CSS enter the link to that file
 - <u>opaccolorstylesheet</u> : Point to a CSS file on your Koha server
- <u>BiblioDefaultView</u> : Decide what view is the default for bib records on the OPAC
- **OPACShelfBrowser** : Decide if you want to enable the shelf browse functionality
- <u>OPACURLOpenInNewWindow</u> : Decide if URLs clicked in the OPAC are opened in a new window
- <u>OpacAuthorities</u> : Decide if you want patrons to be able to search your authority file
- OpacBrowser : Decide if you want patrons to browse your authority file
- <u>OPACSearchForTitleIn</u> : Choose which libraries you want patrons to be able to re-run their search in

Editable OPAC Regions

Using the OPAC system preferences you can customize various regions, the following graphics will define what preferences update each

regions. opacheader Log in to Your Account Skoha Search Library Catalog Go E Cart Lists * Advanced Search | Tag Cloud Important links here. Welcome to Koha... Log in to Your Account: **OpacNav** Login: **OpacMainUserBlock** Password: Log In **OpacNavBottom** opaccredits

Important links for learning HTML and CSS

- <u>http://learnlayout.com</u>
- <u>http://www.csstutorial.net</u>
- <u>http://www.echoecho.com/css.htm</u>
- <u>http://htmldog.com</u>
- <u>http://htmlhelp.com/reference/css</u>
- <u>http://www.fontsquirrel.com</u>
- http://validator.w3.org
- <u>http://jigsaw.w3.org/css-validator</u>

Reference

http://www.koha-community.org http://manual.koha-community.org http://www.koha-communiy.org/documentation http://wiki.koha-community.org/wiki/Main_Page

Some Important MySQL commands:

Creating a database

create database DBNAME;

Displaying all available databases on the server

show databases;

Selection a database for usage

use DBNAME;

Creating a table inside the selected database

```
create table users(
name varchar(30),
password int,
email varchar(30)
);
```

Displaying all tables inside a database

show tables;

Getting information about the table (columns, key, NULL values, etc)

describe TABLENAME;

Inserting an entry into a table

```
insert into users(name, password, email)
values('daniel',12345,'daniel@test.com');
```

Delete an entry from a table

delete from users where name='daniel';

Add a new column in table

alter table users add facebook varchar(30);

Adding a new id column to work as the primary key

alter table users add id int not null auto_increment first, add primary key(id);

Change the value of a column

alter table users modify column email varchar(30) default 'test@test.com';

Update value of a column

update users set email='test@test.com' where id=5;

Retrive the last 5 rows of a table

select * from users order by id desc limit 5;

Replacing values

```
REPLACE INTO patron (id,sur_name,email) VALUES
('2','Sumona','sumona@hotmail.com')";
```

Close MySQL quit/exit