# Working on Server System of

Koha

# whoami

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# Working on Server System of Koha

#### The outline of this course is as follows:

- Installation of KOHA
- Running Multiple Instances of Koha
- Zebra SearchEngine
- Koha as z39.50 server
- Mail Server Configuration
- Database maintenance and Job scheduler
  - Backup and Restore the database of KOHA
  - Cron Jobs
- Additional Configurations
  - Enabling Regional Language
  - SSL in Koha

# Installation of Koha

### Hardware Requirements:

- Desktop PC
- Workstation PC
- Server computer
- Cloud computing

# Software Requirements:

- Linux OS
- Apache
- MariaDB or MySQL
- Perl

# Installation process:

- Command Line
- Web installer
- Onboarding tool

# Multiple Instances of Koha

- Apache port configuration
- Create new instance
- Configure new "sites.conf" in sites-available

# Zebra SearchEngine

# Koha's databases are indexed by the Zebra open-source software

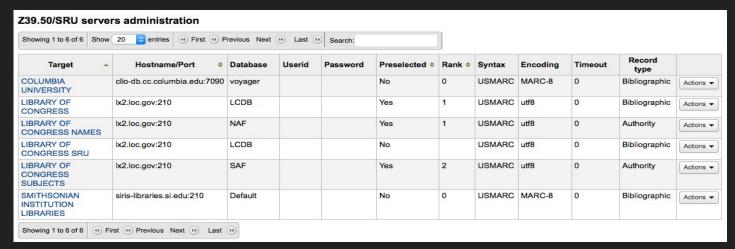
- Zebra is a high-performance, general-purpose structured text indexing and retrieval engine
- It reads records in a variety of input formats (eg. email, XML, MARC)
- Provides access to them through a powerful combination of Boolean search expressions and relevance-ranked free-text queries
- In Koha, Zebra is used to index all cataloged entries

We will be learning different command line combination to work with Zebra.

# Koha as z39.50 server

#### Using z39.50 in Koha

• Get there: More > Administration > Additional Parameters > Z39.50/SRU Servers Z39.50 is a client–server protocol for searching and retrieving information from remote computer databases, in short it's a tool used for copy cataloging



# Mail Server Configuration

#### Exim with Gmail as SMTP mail server

- Install Exim
- Configure Exim
- Create Gmail login credentials file
- Update configuration file
- Restart Exim
- Enable email service in Koha
  - o koha-email-enable library

# Prepare Koha to send email message

- Enabled Enhanced Messaging preferences
- Overdue Notice/Status triggers
- Enable messaging preferences for each patron categories

#### Postfix with Gmail as SMTP mail server

- Install Postfix
- Install required packages
- Configure Postfix main.cf
- Create Gmail login credentials file
- Restart the Postfix
- Enable email service in Koha
  - koha-email-enable library

# Database maintenance and Job scheduler

# Database Backup & Restore

Koha uses Mysql database as database engine for its backend. Using simple mysql command we can backup/dump the databases and can restore back whenever needed.

- Database Backup
  - \$ mysqldump -u koha -p password > /opt/koha.sql
- Database Restore
  - \$ mysql -u koha -p password < /opt/koha.sql</p>

#### Cron Jobs

A cron job is a Linux command for scheduling a command or script on your server to complete repetitive tasks automatically.

- Monthly
- Daily
- Hourly
- At a fixed time

# Additional Configurations

#### Regional Language in Koha

- Staff interface in regional languages
- Search with regional languages
- On-screen Keyboard with regional languages

#### SSL in Koha

HTTPS (HyperText Transfer Protocol Secure) requires a TLS certificate to be installed on the server. TLS is also known as SSL (Secure socket layer).

Free SSL certificates

- Self-Signed Certificates
- Free SSL certificate signed by a Certificate Authorities (CA)

# I wish you well during this challenging time. Hope everyone keeps safe!