



LORIS Installation Guide

ARCHIVED OCT.2014 - DO NOT USE

A) System Requirements

LINUX (Ubuntu 12.04+), Apache2 (libapache2-mod-php5), PHP/Pear (php5 php-pear php5-dev php5-mysql php5-gd), Smarty 3 (smarty3), Perl, Git, php5-json (Debian/Ubuntu distributions), Package manager, MySQL (libmysqlclient15-dev mysql-client mysql-server) → [Installer requires root MySQL account.](#)

Set up LINUX user *lorisadmin* and create LORIS base directory:

```
sudo useradd -U -m -G sudo -s /bin/bash lorisadmin
sudo passwd lorisadmin
su - lorisadmin # Important → All steps from this point forward must be executed by lorisadmin user1
sudo mkdir -m 775 -p /var/www/$projectname # $projectname placeholder2, type "loris" or one-word project name
sudo chown lorisadmin.lorisadmin /var/www/$projectname
```

B) Obtain LORIS code

1. Access repository: Create Github user and send username to info-loris.mni@mcgill.ca for access.

2. Setup public keys: On LORIS server, run ssh-keygen. Press Enter until key created. Copy key in `~/.ssh/id_rsa.pub` and paste to GitHub → Account Settings → SSH Keys → Add SSH key. Enter Github password.

3. Get code: Click "Fork" in <https://github.com/aces/Loris-Trunk>. Fork to your Git-user. Clone fork to your server:

```
cd /var/www/
git clone git@github.com:your-git-username/Loris.git $projectname
```

C) Install LORIS core

1. Run installer script to install core code, libraries, and MySQL schema (see [Loris Setup Schematic](#)). The script will prompt for the following information, including usernames and folders which it will create automatically:

Prompts for	Placeholder ²	Notes (responses should be alphanumeric single tokens)
Database name	\$dbname	simple project-related identifiers (e.g. Loris)
Database host	\$dbhost	hostname where MySQL server is installed (e.g. localhost)
Project name	\$projectname	the same project name used in section (A) (Do not use "project")
MySQL username	\$lorisuser	php query execution user (e.g. lorisuser) - do not confuse with LORIS users. This account will be automatically created by the Install script. Do not use root.
<i>lorisuser</i> password		special characters recommended in passwords
<i>admin</i> password		for front-end ' <i>admin</i> ' user (web browser login)
MySQL root username		must <u>already</u> exist (with create database privilege)
MySQL root password		

```
cd /var/www/$projectname/tools
./install.sh
sudo service apache2 reload
```

Go to <http://localhost> to verify that the LORIS core database has been successfully installed. Congratulations! Log in with the username "admin" and the password you supplied for this user while running the Install script.

Note: Apache config files will be installed as **.conf*, per Ubuntu 14.04. Rename these if running earlier version.

¹ Please verify how to grant sudo permission to *lorisadmin* in your specific Linux version (it varies).

² Variable placeholders in documentation to be replaced in execution with a project-specific value or name.



```
sudo a2dissite default
sudo a2ensite $projectname
sudo service apache2 reload
```

D) Install LORIS imaging scripts

1. Request Loris-MRI GitHub repository permission, fork it to your Git-user, then clone the fork to your server:

```
sudo mkdir -p /data/$projectname/bin
sudo chown -R lorisadmin:lorisadmin /data/$projectname
cd /data/$projectname/bin
git clone git@github.com:your-git-username/Loris-MRI.git
mri
```

2. Install Dicom-archive within the mri/ directory (created by the git clone command):

```
cd /data/$projectname/bin/mri/
git submodule init
git submodule sync
git submodule update
```

3. Run installer to install MINC & DICOM toolkits, Perl libraries, configure environment, and setup directories:

```
bash imaging_install.sh
```

You will be asked for the following input:

- what is the database name? *\$dbname*
- What is the database host? *\$dbhost*
- What is the Mysql user? *\$lorisuser*
- What is the mysql password?
- what is the linux user which the installation will be based on? *\$lorisadmin*
- what is the project Name *\$projectname*
- what is your email address
- "what prod file name would you like to use? default: prod?" *[leave blank]*
- Enter the list of Site names (space separated) *site1 site2*

Ensure that `/home/lorisadmin/.bashrc` includes the statements:

```
source /data/$projectname/bin/mri/environment
```

Installation complete. For customizations & protocol configurations, see [LORIS Developer's Guide](#).

E) Data Querying Tool

The Data Querying Tool (DQT) is a LORIS extension enabling users to query/download data. Users can configure queries to extract all data available in LORIS. See [Data Querying Tool Install Guide](#) for setup.