



Educational Media Server - Technical Guide

Morocco Oct 2014

Kids on Computers (www.kidsoncomputers.org), a charitable organization based in the United States, has prepared an Educational Media Server for use in computer labs in Morocco. This media content has been installed on a Mac Mini computer which also runs Ubermix 2.1L. While connected to a local area network, this computer will provide audio/visual media to other computers via web browser. The computer can also be used as a standard Ubermix desktop at the same time.

Media Files

All media files described below are installed in the home directory of the **rachel** user (`/home/rachel` directory). The rachel user's password is "rachel". Access to the media files should not be necessary. However, if needed, they can be accessed from the a desktop session by opening MATE Terminal and typing "su -l rachel" for a terminal session, or "sudo caja /home/rachel/" for files.

Khan Academy - KA Lite (45GB)

KA Lite is a Python based server for offline Khan Academy videos. Khan Academy is a popular free learning site on the Internet at www.khanacademy.org. Students connect to the KA Lite server using their web browser from any computer, tablet, or smartphone on the Local Area Network or WiFi. KA Lite is configured to be accessible on port 8008.

When a student connects, he/she may create an account and login. The student may select from French, Arabic, or English videos. All available French and Arabic videos have been downloaded, as of October 2014, as well as a few English videos. After logging in, the student selects the subject to learn about. Then, after watching a video, the student can test his/her abilities using a series of practice questions. The student is awarded points based on performance, etc.

An administrator account has been created in KA Lite, using username: "**rachel**" and password "**rachel**". The administrator may view progress of students, create groups or facilities, etc.

More information about KA Lite: <https://learningequality.org/ka-lite/>



Education gratuite de premier ordre pour tout le monde n'importe où.

Apprends en regardant des vidéos !

Mathématiques

Science

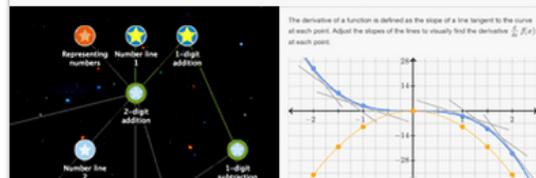
Economie et finance

Humanities

Contenu d'un partenaire

Apprends en faisant des exercices !

Exerce tes compétences en Maths de l'addition au calcul en passant par le reste.



KA Lite est un serveur web léger pour regarder et interagir avec les contenus principaux de la Khan Academy (vidéos et exercices) sans avoir besoin d'une connexion Internet.

Offline Wikipedia (31GB)

Offline Wikipedia library files in French and Arabic are served from the media server by the kiwix application. This application uses highly compressed .zim files to provide 1000s of articles and images from Wikipedia. See www.kiwix.org for more details.

To access the offline wikipedia libraries, connect to port 9000 on the media server using a web browser of any computer, laptop, tablet, or smartphone on the Local Area Network or WiFi. This content is in /home/rachel/wikipedia/ on the media server.

Note: There is a defect in the kiwix application that partially hides the launch button on the right edge of the browser. Locate and click Load button to open the library.

The screenshot shows the interface of the Offline Wikipedia application. At the top, there is a header with the word 'Wikipédia'. Below it, a globe icon is next to the title 'L'encyclopédie libre'. To the right of the title, the following information is displayed: 'Size: 22,606,785 MB (2,752,571 articles, 1,390,931 medias)', 'Created: 2013-12-3', 'Author: Wikipedia', and 'Language: fra'. Below this, the publisher is listed as 'Kiwix'. At the bottom of the interface, there is a grey bar containing the Arabic text 'ويكيبيديا'. A red arrow points from the word 'Arabic' to this text. On the far right of this bar, there is a small button labeled 'Load'. A red arrow points from the text 'Load button' to this button.

RACHEL (21GB)

RACHEL -- Remote Area Community Hotspots for Education and Learning -- is available in English. (French version under development as of October 2014, but not complete.) All content is in /home/rachel/rachel. The content is served by Apache as static content (symbolic link /var/www/html/rachel -> /home/rachel/rachel/bin/www) and can be accessed by computers, laptops, tablets, and smartphones on the Local Area Network or WiFi.

RACHEL includes: offline Wikipedia for Schools, some Khan Academy videos, health guides and videos, ebooks, textbooks (PDFs), and browser-based tutorials and resources.

Learn more about RACHEL here: <http://worldpossible.org/rachel/>

The screenshot shows the homepage of the RACHEL website. The header features a hand holding a globe on the left and the word 'RACHEL' in large, green, outlined letters on the right. Below the header is a dark grey navigation bar with the words 'HOME' and 'ABOUT' in white. The main content area is titled 'Encyclopedia' and features a section for 'Wikipedia for Schools'. This section includes a logo for 'WIKIPEDIA FOR SCHOOLS' and a paragraph of text: 'This curated selection of articles from Wikipedia can be used offline by school children around the world. 6000 articles, 26 million words and 50,000 images make Wikipedia for Schools bigger than Harry Potter, the Lord of the Rings and the Chronicles of Narnia put together!'. Below the paragraph is a list of subjects with blue hyperlinks: 'Art', 'Business Studies', 'Citizenship', 'Countries', 'Everyday life', 'Design and Technology', 'Geography', 'History', 'IT', and 'Language and Literature'.