

RACHEL-Pi KA-Lite

This image is based on Raspbian Stretch Lite which brings support for the latest Raspberry Pi hardware and other features. This image includes KA-Lite from Learning Equality. It is meant for legacy support for deployments that require KA-Lite. For new deployments the Kolibri image is recommended.

Getting Started

1. Unzip `rachel-pi_kalite-04_19_2019.7z` using 7zip from www.7-zip.org
 2. Use a program like Etcher to flash the extracted image file to your storage device
 3. Connect your Raspberry Pi to the internet using an ethernet cable
 4. Place the storage device in your Raspberry Pi and turn it on
 5. Connect to the RACHEL-Pi wireless network with another device
 6. Go to www.rachel.pi or 10.10.10.10 in your browser
- For some mobile devices you may need to add "http://" to the address to get to rachel. For instance "<http://www.rachel.pi>".
 - If you're using a router you can navigate to RACHEL using the IP address your router provided your pi instead of connecting to the wireless network.
 - On first boot the file system will be expanded to use the free space on your device. Please wait for this process to complete before shutting down or rebooting. You can refresh the hardware tab in the admin interface for progress. Your device will be slow until this completes.
 - Always shut down using the Hardware page in the admin interface. Wait until all green light activity has stopped to be sure your device is ready to have the power disconnected to avoid corruption of the storage device. This will be 10-12 flashes followed by one long flash of the green light.

Supported Modules

- KA-Lite modules are supported with this image but require extra steps for installation. Please read the “Installing KA-Lite modules” section before downloading KA-Lite modules.
- Kolibri modules are not supported with this image
- en-file_share is included with this image as it requires changes to work
- All Wikipedia modules are supported. You will need to reboot after installation for them to work. After hiding Wikipedia modules in the admin interface you will need to reboot for them to be hidden in the Wikipedia service page

Installing KA-Lite Modules

Due to differences between the RACHEL-Plus and the RACHEL-Pi the installation of KA-Lite modules will fail after all files are downloaded. To complete the installation you will need to do the following steps.

1. Install a KA-Lite module from the install page
 2. When you get a red “error” near 99% click “details” on the module download bar
 3. Make sure files_done says 100% to be sure it was not a network error
 4. Log into your pi either locally or over ssh using the login “pi” and password “rachel”
 5. Run the command “sudo python /var/www/admin/scripts/ka-content.py”
- This will install any kalite modules you’ve downloaded and will take some time.
 - This requires the content pack for the language to be included in the module folder. This should be the case for modules downloaded from the install page.
 - Once complete you can reboot your device with “sudo reboot now” and your KA-Lite module should be installed.
 - If you have any issues please comment at <http://community.rachelfriends.org/>

Installing Modules

1. Navigate to the admin interface by clicking the admin link in the banner
 2. Log in using "admin" as the user and "Rachel+1" as the password
 3. Navigate to the install tab
 4. Select a module from the list and click download. If the list says "error" refresh the page
- While connected to the internet your device shares your internet connection by default. To disable WIFI temporarily you can log in to your pi with the user "pi" and password "rachel" and disable it using the command "sudo ifconfig wlan0 down". WIFI will be enabled when you reboot

Supported Hardware

- This image has been tested on the Raspberry Pi 0W, 2B, 3B, and 3B+ with both USB and Micro SD.
- This image is not recommended for use with the 0W model as KA-Lite requires more hardware resources than are available with that model.

Technical Support

If you have any questions, comments, or requests please comment or post at the RACHEL forums at <http://community.rachelfriends.org/>

Changelog

- Updated 04/18/2019
- Based on Raspbian Stretch Lite 04/08/2019
- Kolibri Updated to 0.12.2

License

This is an unofficial image and is not supported by the RACHEL team. All code included is theirs and falls under their licensing.

- More info about RACHEL can be found at <https://worldpossible.org/rachel>
- Source code can be found at <https://github.com/rachelproject/>

This image contains KA-Lite from Learning Equality.

- More info about KA-Lite can be found at <https://learningequality.org/ka-lite/>

This image also contains Kiwix-tools for Wikipedia

- More info about Kiwix can be found at <https://www.kiwix.org/en/home/>