

RACHEL-Pi Static

This image is based on Raspbian Stretch Lite which brings support for the latest Raspberry Pi hardware and other features. It is meant for deployments that don't require KA-Lite, Kolibri, or Kiwix for non-static Wikipedia modules. This image is meant for hardware with less resources available like the Raspberry Pi Zero W.

Getting Started

1. Unzip rachel-pi_static-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 not supported
- Kolibri modules are not supported
- Wikipedia modules that are not static are not supported
- KAOS modules are supported with this image as they are static
- en-file_share is included with this image as it requires changes to work
- Any modules that don't require the KA-Lite, Kolibri, or Kiwix-Serve services are supported. Modules that include "-static" should work. This includes en-wikipedia_for_schools-static.

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 recommended for use with the 0W model as it requires less hardware resources to run than other images.
- The best way to build an image for the Raspberry Pi 0W is to use another model of Raspberry Pi and use that storage device with the your 0W,

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

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/>