Water Data Project para Groots

Development – KoBoToolbox customizations

[Scope 1](#_Toc58848668)

[Repositories 1](#_Toc58848669)

[KoBoToolbox Repositories 1](#_Toc58848670)

[Support API Repositories 2](#_Toc58848671)

[Customizations 2](#_Toc58848672)

[About Branches, Tags and naming 2](#_Toc58848673)

[Groots KPI 3](#_Toc58848674)

[KPI 3](#_Toc58848675)

[Main changes 3](#_Toc58848676)

[kobo-docker 3](#_Toc58848677)

[Main changes 4](#_Toc58848678)

[kobo-install 4](#_Toc58848679)

[Main changes 4](#_Toc58848680)

[DockerHub 4](#_Toc58848681)

# Scope

Detailed explanation of which parts were modified in order to have KoBoToolbox customized. This in terms of Repositories, parts of code and deployment considerations.

Regarding deployment, that will be covered in more detail on its own runbook.

# Repositories

All repositories are a FORK of original KoBoToolbox repository, then this is the main repository:

* <https://github.com/NexionBolivia>

## KoBoToolbox Repositories

The following are Forks:

|  |  |
| --- | --- |
| **Repository** | **Description** |
| <https://github.com/NexionBolivia/kpi> | Fork of KoBoToolbox's KPI  This repository is used to display a web application with all the Form/Poll functionality.  We are adding a reference to our own library in order to extend more menus. |
| <https://github.com/NexionBolivia/kobo-docker> | Fork of Docker scripts used on deployment.  Contains a modified reference to a custom-built Docker image of KPI. |
| <https://github.com/NexionBolivia/kobo-install> | Fork of Install scripts used on target machine to perform all deployment actions.  There is a modified reference to the forked *kobo-docker* repository on deployment time |
| <https://github.com/NexionBolivia/collect> | Fork of ODK Collect (Android application) We added custom behaviors using Flutter modules |

## Support API Repositories

|  |  |
| --- | --- |
| **Repository** | **Description** |
| <https://github.com/NexionBolivia/support-api> | Support API with all Backend extension functionality.  Contains among others:   * Token based authentication * User mapping: Support API users with KoBoToolbox users * Organization Profile * Incentives |
| <https://github.com/NexionBolivia/groots-kpi> | React module to be included later in KPI as a npm package.  This repo contains all extensibility required for KPI. |
| <https://github.com/NexionBolivia/support-install> | Support API installer. We used the same concept used in Kobo-install: a set of python scripts to setup, start and stop Docker containers. |

## Dashboards Repositories

|  |  |
| --- | --- |
| **Repository** | **Description** |
| <https://github.com/NexionBolivia/dashboards-shiny> | Dashboads project containing R files for automatic deployment on ProAgenda2030 system |
| <https://github.com/NexionBolivia/dashboards-docker> | Docker repository that builds the basic image to be used on dashboards subdomain |

# Customizations

## About Branches, Tags and naming

It is required to maintain the same naming consistency across branches, so we defined that branch name ***proagenda2030*** should be used as much as possible.

There might be some case when it’s necessary to point to a specific Tag or Branch, then format would be:

* ***myImportant-proagenda2030***

When tagging a version, it is preferred to use:

* ***pa.v#.#[.#]***

Being “pa” a reference to ProAgenda

This naming is important so GithubActions can trigger events based on tag names.

## Groots KPI

Since this repository is a customization by itself it’s recommended to take a look at the specific document of Groots KPI

## KPI

This KPI fork was taken from [kobotoolbox/kpi](https://github.com/kobotoolbox/kpi) on November 2020.

* Branch: **proagenda2030/master**

To get detailed information of what has changed please following compare action in Github

<https://github.com/NexionBolivia/kpi/compare/master...NexionBolivia:proagenda2030/master>

### Main changes

* Github action: [.github/workflows/push-to-dockerhub.yml](https://github.com/NexionBolivia/kpi/compare/master...NexionBolivia:proagenda2030/master#diff-6880e49a9b6d643dc4901f16cf846cc7a1cbfe40b7b6aab991bd57ffac146d44)
  + This action is triggered on a new tag starting with pa.\*
  + Performs a *docker build* action of Dockerfile
  + Performs *docker tag* with the name of the branch tag
  + Performs *docker push* against DockerHub repository:
    - proagenda2030/kpi
  + Requires Credentials configured on GitHub Secrets section
* Reference to Groots-API on package.json
  + These references [external module: Groots KPI](https://github.com/NexionBolivia/kpi/compare/master...NexionBolivia:proagenda2030/master#diff-7ae45ad102eab3b6d7e7896acd08c427a9b25b346470d7bc6507b6481575d519R76-R81)
* New route added to *./jsapp/js/app.es6*
  + Route with Support-API [base url reference added](https://github.com/NexionBolivia/kpi/compare/master...NexionBolivia:proagenda2030/master#diff-f4c3c2939c9dcce19a4d067f421e2a2ac1f0fb575fd935ab0b2303a81970779eR313)
* Drawer added to *./jsapp/js/components/drawer.es6*
  + This allows to have the [drawer in place](https://github.com/NexionBolivia/kpi/compare/master...NexionBolivia:proagenda2030/master#diff-5c662386d1165b08bcc3600391ad143b37cb3c389770d7896c3a7faed2adcf9cR151-R153)
* New constants file with Support API values at jsapp/js/support-api-constants.es6
  + Currently pointing to [support.nexion-dev.tk](https://github.com/NexionBolivia/kpi/compare/master...NexionBolivia:proagenda2030/master#diff-0e95fa2e0ec2d6c6eb148158a7b4af227ff575ce6e473ad04beeae97c6ca5433R1)
* Icons added:
  + jsapp/svg-icons/people.svg
  + jsapp/svg-icons/tickets.svg

## kobo-docker

This kobo-docker fork was taken from [kobotoolbox/kobo-docker](https://github.com/kobotoolbox/kobo-docker) on November 2020.

* Branch: **proagenda2030/master**

To get detailed information of what has changed please following compare action in Github

<https://github.com/NexionBolivia/kobo-docker/compare/2.020.45...NexionBolivia:2.020.45-proagenda2030?expand=1>

### Main changes

* Change of reference KPI image on ./docker-compose.frontend.yml
  + Old Image reference: kobotoolbox/kpi:2.020.30-hotfix-2450
  + [New reference](https://github.com/NexionBolivia/kobo-docker/compare/2.020.45...NexionBolivia:2.020.45-proagenda2030?expand=1#diff-b94ee9225ef2f5be52d97c81604d15339e0eed2c2ad7aeab39d1dc0e6d266c0bR47): proagenda2030/kpi:pa.v0.4

Note: This version tag (pa.v0.4) can vary in time

## kobo-install

This KPI fork was taken from [kobotoolbox/kobo-install](https://github.com/kobotoolbox/kobo-install) on November 2020.

* Branch: **proagenda2030/master**

To get detailed information of what has changed please following compare action in Github

<https://github.com/NexionBolivia/kobo-install/compare/master...NexionBolivia:proagenda2030/master>

### Main changes

* Changed kobo-docker branch on helpers/config.py
  + Old value: KOBO\_DOCKER\_BRANCH = '2.020.45'
  + [New value](https://github.com/NexionBolivia/kobo-install/compare/master...NexionBolivia:proagenda2030/master#diff-3a81b92b1ad3cbc4cda6c831dd395919345ec5398ae1e97eae2e0dd894552d04R33): KOBO\_DOCKER\_BRANCH = 'proagenda2030/master'

# DockerHub

DockerHub’s organization: <https://hub.docker.com/orgs/proagenda2030/repositories>

Holds the following Docker repositories:

* [proagenda2030/kpi](https://hub.docker.com/repository/docker/proagenda2030/kpi)
* [proagenda2030/support\_api](https://hub.docker.com/repository/docker/proagenda2030/support_api)
* [proagenda2030/support\_bootstrap](https://hub.docker.com/repository/docker/proagenda2030/support_bootstrap)
* [proagenda2030/dashboard](https://hub.docker.com/repository/docker/proagenda2030/dashboards)

Currently all changes on KPI (fork) and Support API need to be on these repos in order to follow the deployment pipeline.