

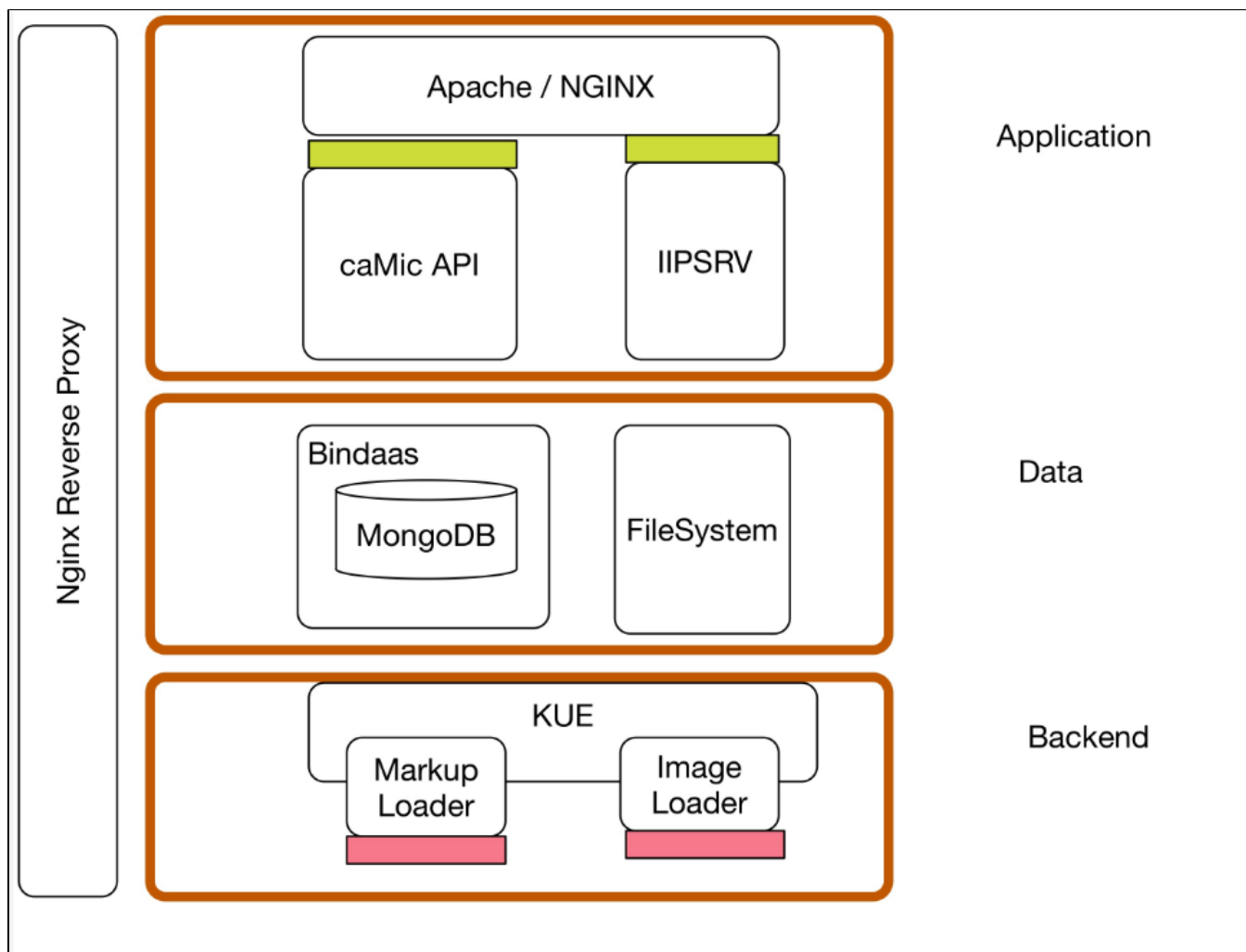
caMicroscope Deployment/Installation Guide

Contents of this Page

- [caMicroscope Docker Distribution](#)
 - [Architecture](#)
 - [Installation](#)
 - [Build images](#)
 - [Running the containers](#)
 - [Data](#)
 - [Loaders](#)
 - [Viewer](#)

caMicroscope Docker Distribution

Architecture



- Application => Viewer
- Data => Data
- Backend => Loader

Installation

Build images

- `docker build -t camicroscope_data data/`
- `docker build -t camicroscope_loaders loaders/`
- `docker build -t camicroscope_viewer viewer/`

These builds take about an hour, so feel free to grab a coffee.

Running the containers

Data

1. Set environment variables on host machine for Images and Data directories `export CAMIC_IMAGES_DIR=<path to images directory> export CAMIC_DATA_DIR=<path to data directory>`
2. Set Bindaas port `$CAMIC_BINDAAS_PORT=9099`
`docker run -itd -p $CAMIC_BINDAAS_PORT:9099 -v $CAMIC_IMAGES_DIR:/data/images -v $CAMIC_DATA_DIR:/data/db camicroscope_data`
3. Run `docker inspect` to find the IP address for Data container.
4. Use `<CAMIC_DATA_IP>` as a placeholder.

Loaders

1. Set up environment variables:
`$CAMIC_KUE_PORT=5000`
`$CAMIC_MARKUPLOADER_PORT=6000`
`$CAMIC_DATALOADER_PORT=6002`
2. Run the container:
`docker run -itd -p $CAMIC_KUE_PORT:3000 -p $CAMIC_MARKUPLOADER_PORT:3001 -p $CAMIC_DATALOADER_PORT:3002 -v $CAMIC_IMAGES_DIR:/data/images -e "dataloader_host=http://<CAMIC_DATA_IP>:9099" -e "annotations_host=http://<CAMIC_DATA_IP>:9099" camicroscope_loaders`

Note that `-p $CAMIC_KUE_PORT:3000 -p $CAMIC_MARKUPLOADER_PORT:3001 -p $CAMIC_DATALOADER_PORT:3002` is optional.

Viewer

1. Set up environment variables:
`$CAMIC_VIEWER_PORT=1337`
`<HTML_DIRECTORY>` is `/viewer/html`. Provide the absolute path.
2. Run:
`docker run -itd -p $CAMIC_VIEWER_PORT:80 -v <HTML_DIRECTORY>/html:/var/www/html -v $CAMIC_IMAGES_DIR:/data/images camicroscope_viewer`

You should now be able to load the images and see them at [http://localhost:\\$CAMIC_VIEWER_PORT/camicroscope2/osdCamicroscope.php?tissueId=<Case_ID>](http://localhost:$CAMIC_VIEWER_PORT/camicroscope2/osdCamicroscope.php?tissueId=<Case_ID>)