

# LexPredict ContraxSuite Quick Deployment

Quick Deployment  
Release 1.1.1 - July 1, 2018

`/lexpredict-contraxsuite/docker/` folder contains scripts for fast deploying current latest Contraxsuite release on a clean Ubuntu 16.04 machine.

Contraxsuite application is provided as a Docker image freely available at DockerHub (<https://hub.docker.com/r/lexpredict/lexpredict-contraxsuite/>) and a set of scripts and config files (this directory) allowing starting all components required for Contraxsuite (including docker-compose.yml file).

## System Requirements

- Clean Ubuntu 16.04 (or later - not tested) machine.
- At least 16GB free space on HDD at /.
- At least 8GB RAM.

## Installation

- Unload/unpack all files of this dir to the machine.
- Put zipped theme and jqwidgets files into `./deploy/dependencies` directory.

Contents of `./deploy/dependencies` should be similar to this:

- \* `jqwidgets-example.zip` - zipped JQWidgets Library
  - \* `jqwidgets`
  - \* `globalization`
  - \* `styles`
  - \* `jqx-all.js`
  - \* ...
- \* `theme-example.zip` - zipped theme
  - \* `Package-HTML`
  - \* `HTML`
  - \* `css`
  - \* `images`
  - \* `js`
  - \* `style.css`

- Run script: `setup_local_contraxsuite_ubuntu_16_04.sh`

The script will execute the following actions:

- install Docker,
  - initialize Docker Swarm cluster consisting of this single machine,
  - download the latest Contraxsuite Docker image from Docker Hub,
  - deploy services configured in `./deploy/docker-compose.yml` file.
- Wait few minutes for all components to start (`sudo docker service ls`).
  - After the installation is finished:
    - the Contraxsuite application will be available at **`http://localhost:65080`**;
    - Jupyter having access to the Contraxsuite python code and database will be at **`http://localhost:8888`**;
    - Kibana connected to the Contraxsuite Elasticsearch will be at **`http://localhost:5601`**
    - Contraxsuite Django logs are in **`logstash*`** indexes
    - Documents indexed for search purposes are in **`contraxsuite*`** indexes.
  - Admin login/password: **Administrator / Administrator**.

## Updating to the Latest Contraxsuite Image

To update running Contraxsuite demo application installed by these scripts to the latest version you can run the following script on the machine:

**`update_local_contraxsuite_to_latest_version.sh`**

Database and documents uploaded to the system will be preserved after update.

## Advanced Usage

These scripts can be used to run Contraxsuite in a distributed Docker Swarm cluster consisting of multiple machines.

Check `./deploy/new_contraxsuite_cluster_ubuntu_16_04.sh` for more info.

For more complicated deployments and support please contact LexPredict team.

Contraxsuite Docker image maintains information about the last image version used on this deployment in `contraxsuite_contraxsuite_deployment_uuid` docker volume (`/var/lib/docker/volumes/contraxsuite_contraxsuite_deployment_uuid`).

On each start Contraxsuite checks if the image is new by testing if stored uuid matches image uuid. For the case of new version Contraxsuite

re-installs theme and jqwidgets and runs Django collectstatic.

If during the installation or updating process some problems with CSS appear the following steps can be used to force Contraxsuite re-installing the theme:

1. Undeploy the cluster using the script in docker/deploy.
2. Wait approx 15 seconds for it to finish.
3. Delete deployment uuid file from  
/var/lib/docker/volumes/contraxsuite\_contraxsuite\_deployment\_uuid
4. Deploy the cluster again.