

# LexPredict ContraxSuite Quick Deployment

Quick Deployment  
Release 1.1.0 - June 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

- Unupload/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.