

Open edX with Tutor

Launching walkthrough

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TEACH V
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Requirements

Following conditions were used to prepare this presentation:

- Ubuntu (22.10 and 24.04),
- Python 3.10 or newer,
- Docker 28.4.0,
- Docker Compose 2.0.0+

According to [documentation](#), it might work on Windows as well.

However, it is recommended to use a VM instead, if no Ubuntu is available.

Local instance launch

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Installation with Tutor

Tutor is a Docker-based distribution simplifying the installation:

<https://docs.tutor.edly.io/index.html>

1. Setup a virtual environment and activate it:

```
python3 -m venv tutor_venv  
source tutor_venv/bin/activate
```

2. Install tutor:

```
python3 -m pip install "tutor[full]"
```

3. Launch tutor:

```
tutor local launch
```

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Configuration data

- The address is determined by settings in the *config.yml* file.

- Its location is:

```
tutor config printroot
```

```
cat $(tutor config  
printroot)/config.yml
```

- Data is moved to further files:

```
ls $(tutor config  
printroot)/env/apps/openedx/  
config/
```

All services initialised.

The platform is now running and can be accessed at the following urls:

<http://local.openedx.io>
<http://studio.local.openedx.io>
<http://meilisearch.local.openedx.io>
<http://apps.local.openedx.io>

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CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	NAME	IMAGE	COMMAND	SERVICE	CREATED	STATUS	PORTS
aa682eccd924	overhangio/openedx:20.0.1-indigo	"celery --app=cms.ce..."	2 days ago	Up 4 hours	tutor_local-caddy-1	docker.io/caddy:2.7.4	"caddy run --config ..."	caddy	2 days ago	Up 4 hours	443/tcp, 0.0.0.
418e1ac3442d	overhangio/openedx:20.0.1-indigo	"uwsgi /openedx/uwsg..."	2 days ago	Up 4 hours	0:80->80/tcp, [::]:80->80/tcp, 2019/tcp, 443/udp						
b33f5943f177	overhangio/openedx:20.0.1-indigo	"celery --app=lms.ce..."	2 days ago	Up 4 hours	tutor_local-cms-1	docker.io/overhangio/openedx:20.0.1-indigo	"uwsgi /openedx/uwsg..."	cms	2 days ago	Up 4 hours	8000/tcp
becfb8268707	overhangio/openedx-mfe:20.0.0-indigo	"caddy run --config ..."	2 days ago	Up 4 hours	tutor_local-cms-worker-1	docker.io/overhangio/openedx:20.0.1-indigo	"celery --app=cms.ce..."	cms-worker	2 days ago	Up 4 hours	8000/tcp
0aef6fb53f2c	overhangio/openedx:20.0.1-indigo	"uwsgi /openedx/uwsg..."	2 days ago	Up 4 hours	tutor_local-lms-1	docker.io/overhangio/openedx:20.0.1-indigo	"uwsgi /openedx/uwsg..."	lms	2 days ago	Up 4 hours	8000/tcp
6305b7987e5d	redis:7.4.5	"docker-entrypoint.s..."	2 days ago	Up 4 hours	tutor_local-lms-worker-1	docker.io/overhangio/openedx:20.0.1-indigo	"celery --app=lms.ce..."	lms-worker	2 days ago	Up 4 hours	8000/tcp
32938954452a	getmeili/meilisearch:v1.8.4	"tini -- /bin/sh -c ..."	2 days ago	Up 4 hours	tutor_local-meilisearch-1	docker.io/getmeili/meilisearch:v1.8.4	"tini -- /bin/sh -c ..."	meilisearch	2 days ago	Up 4 hours	7700/tcp
2b423e4eb73f	mysql:8.4.0	"docker-entrypoint.s..."	2 days ago	Up 4 hours	tutor_local-mfe-1	docker.io/overhangio/openedx-mfe:20.0.0-indigo	"caddy run --config ..."	mfe	2 days ago	Up 4 hours	80/tcp, 443/tcp
7316ed7b4232	caddy:2.7.4	"caddy run --config ..."	2 days ago	Up 4 hours	, 2019/tcp, 443/udp						
8a83bbb2dd40	devture/exim-relay:4.96-r1-0	"/sbin/tini -- exim ..."	7 weeks ago	Up 4 hours	tutor_local-mongodb-1	docker.io/mongo:7.0.7	"docker-entrypoint.s..."	mongodb	7 weeks ago	Up 4 hours	27017/tcp
f4f95cb7eee6	mongo:7.0.7	"docker-entrypoint.s..."	7 weeks ago	Up 4 hours	tutor_local-mysql-1	docker.io/mysql:8.4.0	"docker-entrypoint.s..."	mysql	2 days ago	Up 4 hours	3306/tcp, 33060
					/tcp						
					tutor_local-redis-1	docker.io/redis:7.4.5	"docker-entrypoint.s..."	redis	2 days ago	Up 4 hours	6379/tcp
					tutor_local-sntp-1	docker.io/devture/exim-relay:4.96-r1-0	"/sbin/tini -- exim ..."	sntp	7 weeks ago	Up 4 hours	8025/tcp

`docker ps; tutor local status`

Therefore, the variety of plugins is assured. Regardless of the specific requirements, functionalities can be added as independent building blocks, since they are being hosted in separated containers.

Feel free to install and enable some plugins using the commands of the further slides to test it on your own.

Plugins to play with can be found e.g. on:

<https://openedx.org/the-platform/extensions-directory/>

Feel free to let us know which functionalities you'd like to have integrated

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Useful commands

Command	Explanation
<code>tutor -h</code>	Help and accessible operations
<code>tutor local reboot -d</code>	Reboot containers (detached)
<code>tutor config save</code>	Change or creation of a parameter value
<code>tutor plugins list</code>	List installed plugins with their status indication
<code>tutor plugins enable disable install</code>	Enable, disable or install plugin
<code>tutor local run lms bash</code>	Opens a terminal in the lms container
<code>tutor local do sqlshell openedx -e 'show tables'</code>	Interact with a database, here: show tables

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Useful commands

Command	Explanation
<code>tutor local do importdemocourse</code>	Imports a demo course from the repository
<code>tutor local do createuser --staff -- superuser yourusername user@email.com -p password</code>	Creates user with certain rights combination

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Further resources

- How to install with Tutor:
<https://docs.tutor.edly.io/install.html>
- Main Tutor commands:
<https://docs.tutor.edly.io/local.html>
- Tutor and plugins (including plugins command-cheetsheet):
<https://docs.tutor.edly.io/plugins/intro.html>

Note! Tutor is the recommended way to install and run Open edX.

Documentation and sources

Documentation and sources

Official documentation

1) Open edX Documentation:

<https://docs.openedx.org/en/latest/>

2) Community forum:

<https://discuss.openedx.org/>

3) Tutor (edly distribution):

<https://docs.tutor.edly.io/>

4) Open edX YouTube channel (conferences, tutorials, updates):

<https://www.youtube.com/@OpenedX>

1) **Staging (test) instance:**

<https://learn-test.helmholtz.cloud/>

2) **Production instance (...is about to be accessible via):**

<https://learn.helmholtz.cloud/>

<https://studio.learn.helmholtz.cloud/>

3) Official sandbox (requires registration):

<https://sandbox.openedx.org/>

4) Edly sandbox (restarted daily, credentials as follows):

<https://sandbox.openedx.edly.io/>

login: *admin* password: *admin* e-mail: *admin@overhang.io*

login: *student* password: *student* e-mail: *student@overhang.io*

1) **Build a course :**

https://docs.openedx.org/en/latest/educators/quickstarts/build_a_course.html

2) **Educators guide:**

<https://docs.openedx.org/en/latest/educators/index.html>

3) SCORM Overview:

https://docs.openedx.org/en/latest/educators/references/course_development/exercise_tools/SCORM_overview.html

4) Jupyter (just a repository, nothing helpful for educators, but just FYI):

<https://github.com/overhangio/tutor-jupyter>

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