

CEDESK – Setup

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[CEDESK.GITHUB.IO](https://github.com/cedesk/cedesk)

CEDESK is a tool to facilitate co-located collaborative model based conceptual design for space missions and complex systems. Multidisciplinary teams of engineers and scientists can use it for working together with a shared parametric model of any type of system.

Two step process

The installation of the tool is done in two steps. First set up the database where the repository will be stored. Second the client application which will use the database.

1. Repository – Database

Make sure MySQL server is installed on a machine, that is reachable from within the network where the clients will be connected (without firewall). The clients will use TCP connections on port 3360 to connect to the server.

If the server is not installed, obtain the installation package from <https://dev.mysql.com/downloads/mysql/> and perform the installation.

Note the servers *hostname*, either as fully qualified domain name (e.g. cedesk-server.example.com) or by IP address.

Connect to the server as administrator (*root*) using any database management tool (e.g. MySQL Workbench, downloadable from <https://dev.mysql.com/downloads/workbench/>)

Create a database schema for the CEDESK repository, and a user which is able to access it.

These lines of SQL code will do that:

```
CREATE SCHEMA `cedesk_repo` DEFAULT CHARACTER SET utf8;  
CREATE USER 'cedesk'@'%' IDENTIFIED BY 'cedesk';  
GRANT ALL PRIVILEGES ON 'cedesk_repo'.* TO 'cedesk'@'%';
```

2. Client – Installation packages

Platforms

- Windows cedesk-<version>_<date>_<time>.exe
- MacOS cedesk-<version>_<date>_<time>.dmg
- Linux, Debian cedesk-<version>_<date>_<time>.deb

Launch the installation in the way common for the respective platform.

On Windows the application is immediately started after installation, but we need to close it.

2.a. Repository initialization

When the repository is empty, because no client has accessed it so far, we need to enable a client to initialize the database scheme.

This only needs to be done once for per server!

Go to the users home directory, as following for different platforms.

- Windows `c:\users\my-ser\`
- MacOS `/Users/my-user/`
- Linux, Debian `/home/my-user/`

Open directory `".cedesk"`, create it does not exist.

Open the file `"application.settings"`, create it if it does not exist.

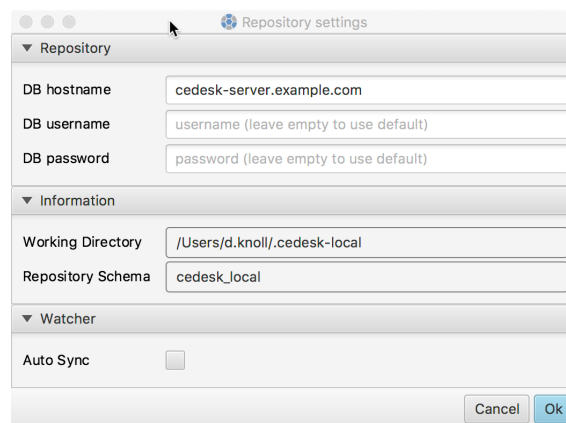
Copy the following two lines into that file, while replacing `"hostname"` with the server's `hostname`.

```
repository.host=hostname
repository.schema.create=true
project.user.name=admin
```

2.b. Repository connection

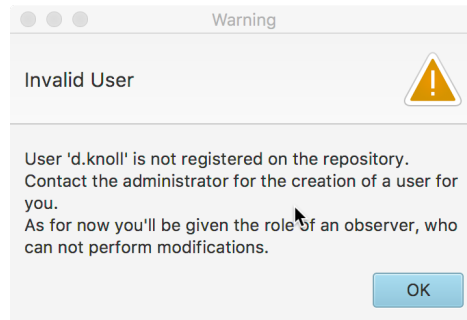
Upon first start of the client application on a machine, the settings for the repository connection need to be done accordingly.

The application shows the following dialogue.



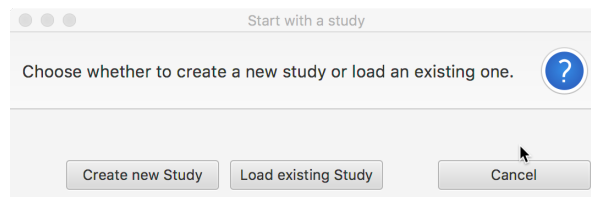
Insert the servers `hostname` and press OK.

After that, the application shows a warning, that the current user, does not exist yet in the user list.

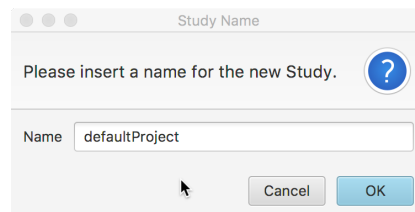


Creating first study

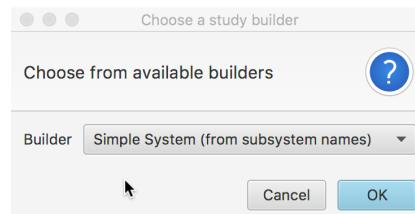
Upon start the application asks whether to start with a new study or to load an existing one.



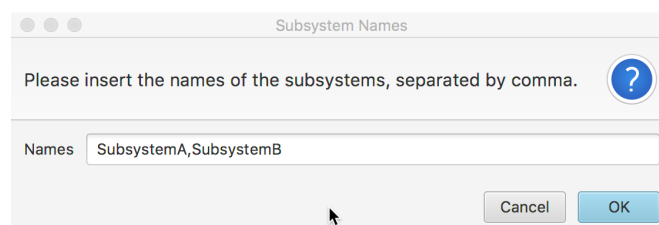
Creating a new one, please give it a name (at least 5 alphanumeric characters and dash).



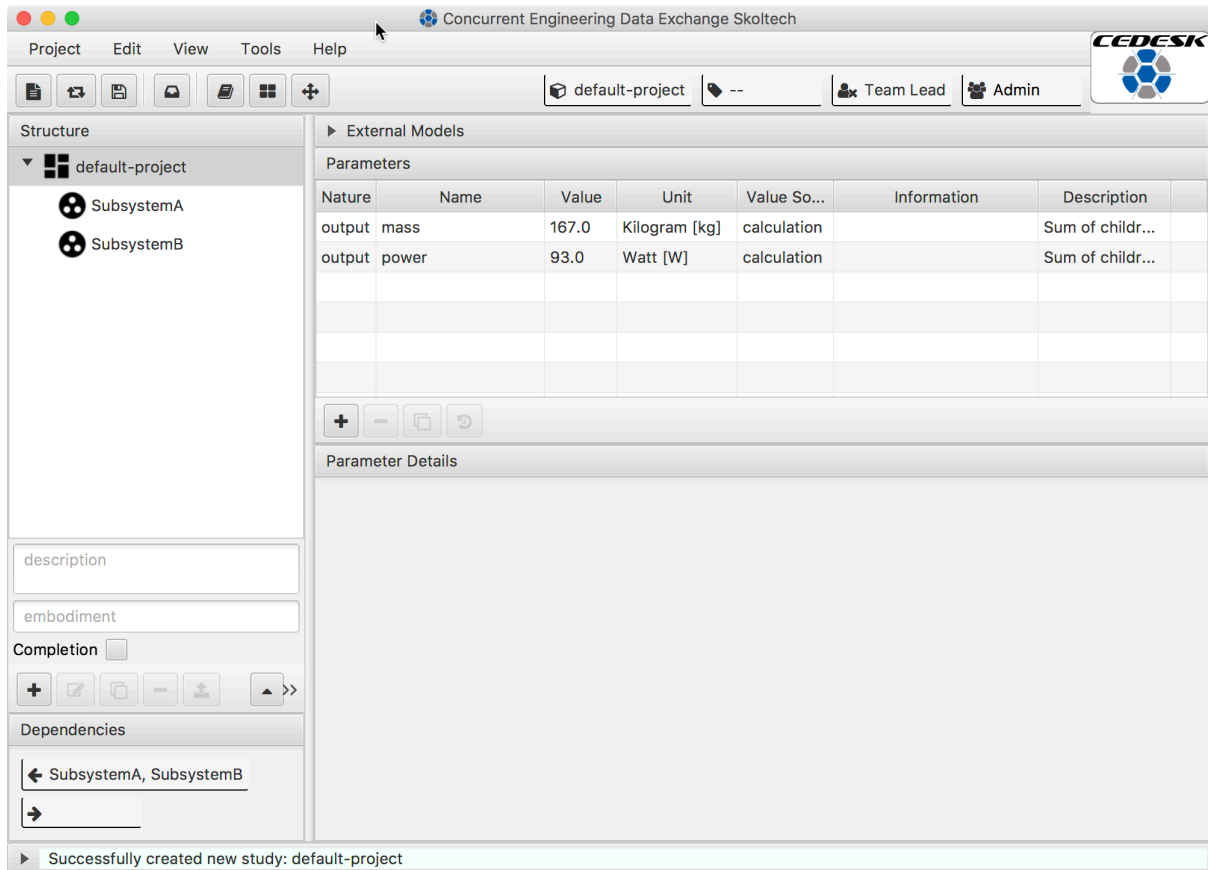
And press OK.



Type the names of the subsystem you want to design and press OK.



And voila.

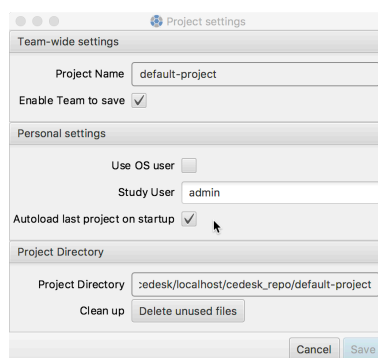


Manage users

Only administrators are allowed to add and modify users.

1. Become administrator

To take the role of the administrator, got to the menu “Edit → Project Settings”.



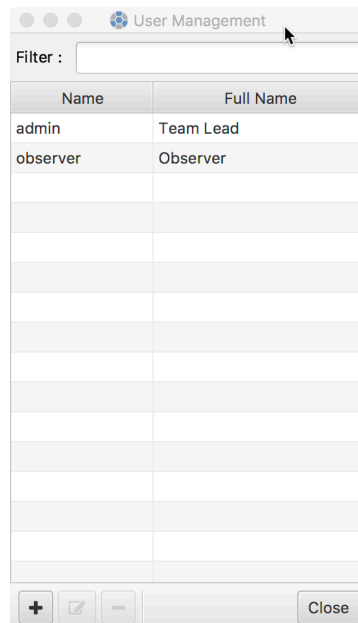
In the section Personal settings, make sure “use OS user” is not selected, and the Study User is set to “admin”.

Close the dialog with save button.

NOTE: The CEDESK client by default take the username by which the user is logged in to the operating system.

1. Add Users

In a second step, go to the menu “Edit → Users”



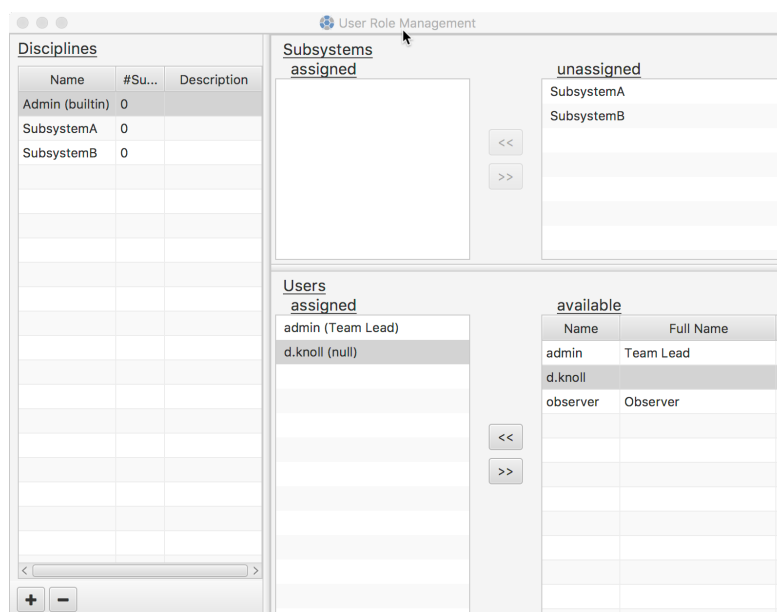
Press add (plus sign), insert the user name to be added and press OK.

Any changes to the users are saved right away.

NOTE: The CEDESK client by default take the username by which the user is logged in to the operating system. This simplifies the user management in organizations with centralized user directory. Future versions of CEDESK will support for authentication though LDAP.

Manage user permissions

After the creation of users, go to the menu “Edit → User-Discipline Assignment”.



Select “Admin” discipline, and choose the user you just added from the available users list and press the button “<<”. Then close that window.

Finally, press the Save button.

The status bar of the application should show “Successfully saved study”.