

Energy Twin

Installation notes



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1 Prerequisites

1.1 Mandatory

- SkySpark version 3.0.27 or newer
 - For older versions, a custom **smileCore** pod file is needed. Please contact ET team for support.
- You you need **superuser** access rights for the Energy Twin installation.
- ET installation requires restart of SkySpark.

1.2 Optional

- The energy Twin can generate a PDF report that can be send via email or saved to the **io** directory
 - For sending PDF report by email, setup SMTP server host and other options in **Settings / Email**
 - Alternatively, PDF can be stored in the **io** directory. Note that the **io** directory can be linked with shared Google Drive or Dropbox folder. For setup instructions for shared directories see <https://skyfoundry.com/doc/docSkySpark/Files>

2 Installation

ET extension consists of two separate pods:

- `ecpEnergyTwinCore` includes Fantom code that handles model identification and prediction. Update of `ecpEnergyTwinCore` requires SkySpark restart.
- `ecpEnergyTwin` includes only Axon code and views. Most ET updates contain changes in `ecpEnergyTwin` only. Update of `ecpEnergyTwin` is straightforward and it does not require SkySpark restart.

2.1 Installation of pod files

The Energy Twin can be installed without a valid ET license. ET will be in a demo mode, if no license is provided. It means, all views are working, demo data can be generated, no ET model can be identified.

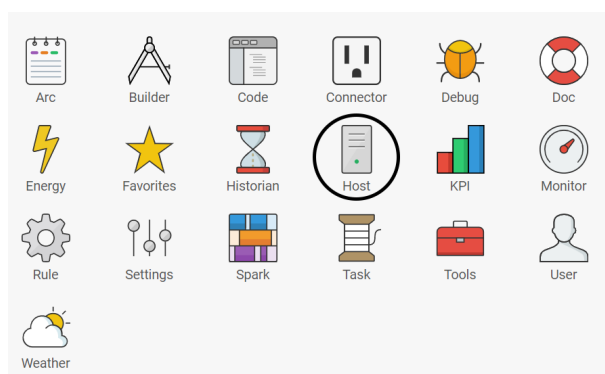


Figure 2.1: Open the **Host** application.

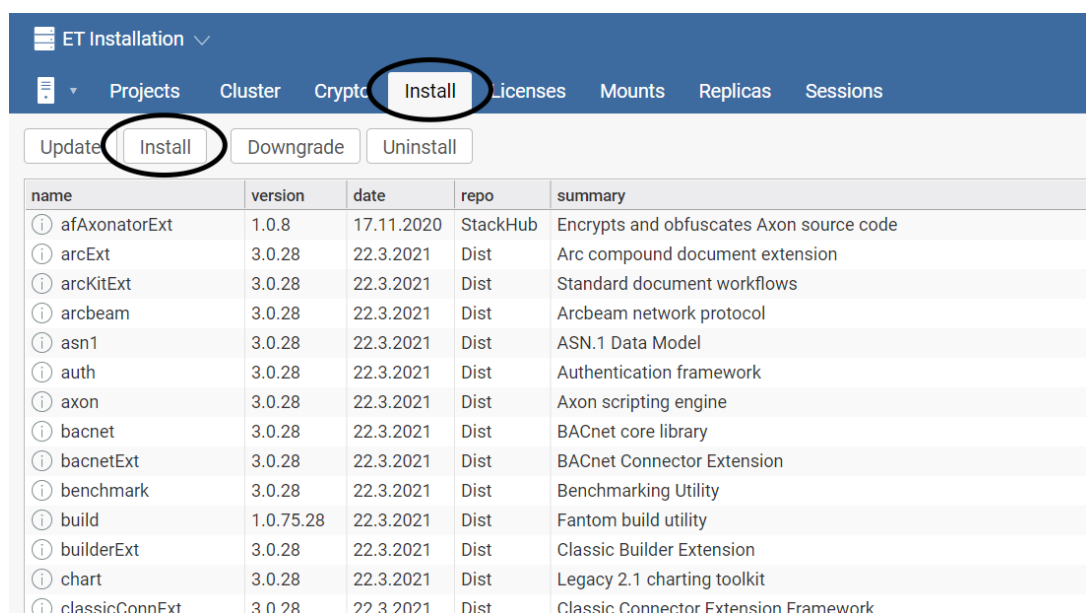


Figure 2.2: Open the tab **Install**, then click the button **Install**.

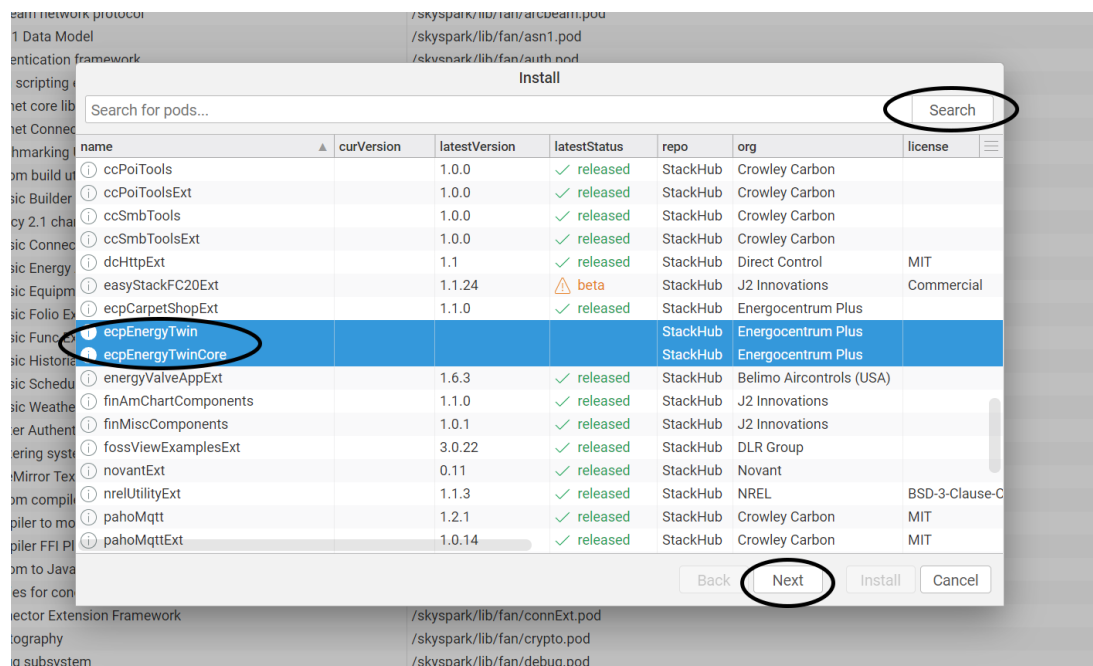


Figure 2.3: In the dialog window click on the **Search** button. Find and select both **ecpEnergyTwin** and **ecpEnergyTwinCore** and press the **Next** button.

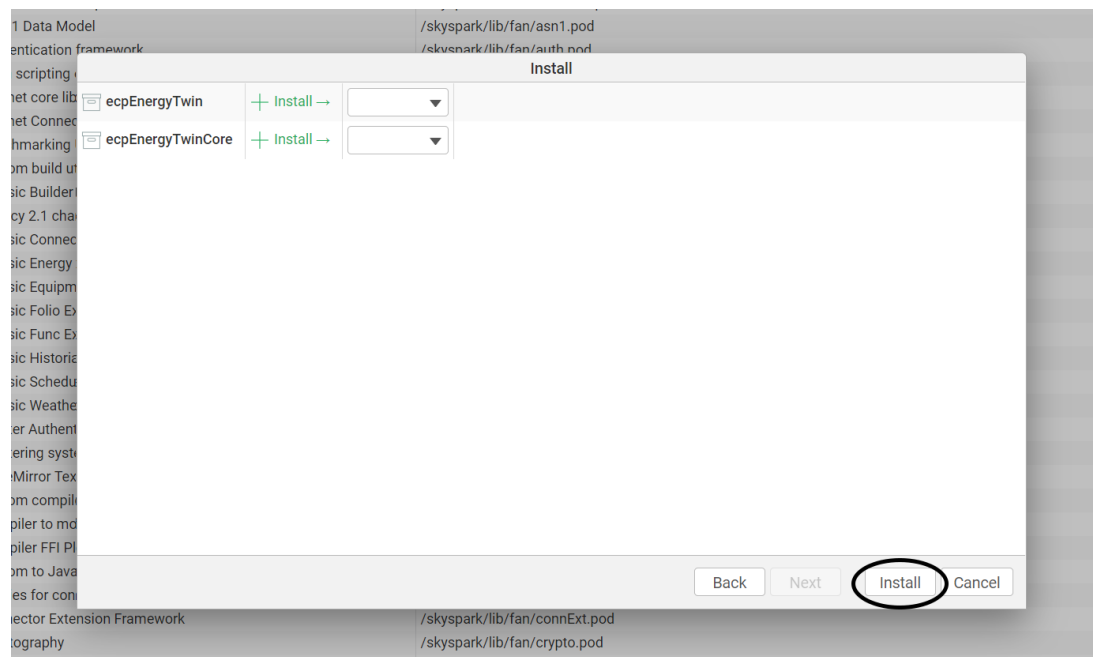


Figure 2.4: Just continue by clicking the **Install** button.

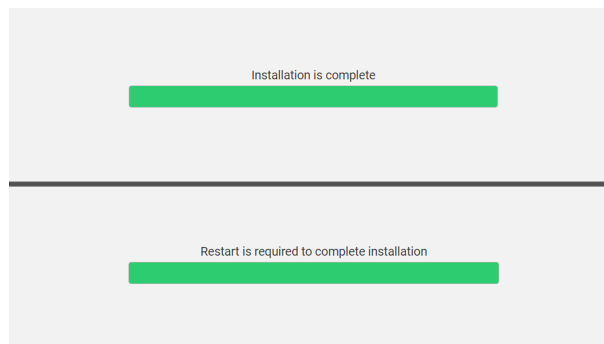


Figure 2.5: Progress bar will appear. After completion, you need to restart SkySpark.

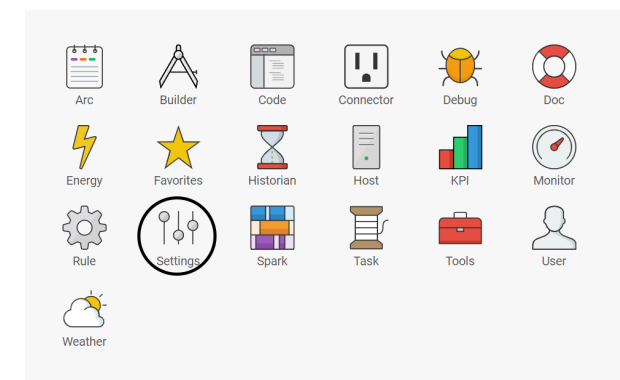


Figure 2.6: Open the settings application.

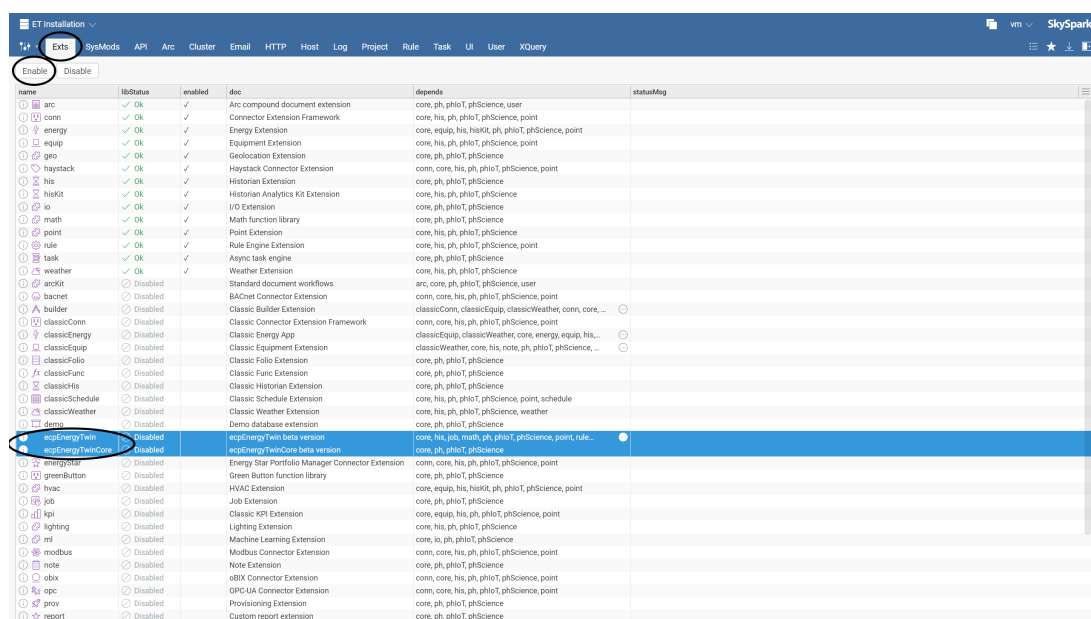


Figure 2.7: Select both ecpEnergyTwin and ecpEnergyTwinCore and click Enable.

2.2 License installation

There are multiple ET licenses. They differ in number of models that can be present in one SkySpark server.

After purchasing ET license on StackHub, you need to install the purchased license. Note that ET licenses can be combined (e.g. you can combine 20 models license with 100 models license and you will be able to create 120 models).

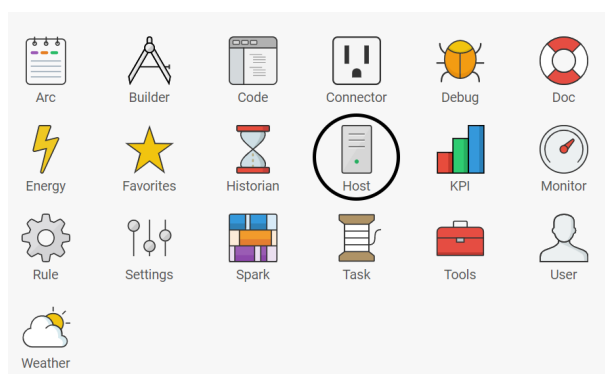


Figure 2.8: Open the **Host** application.

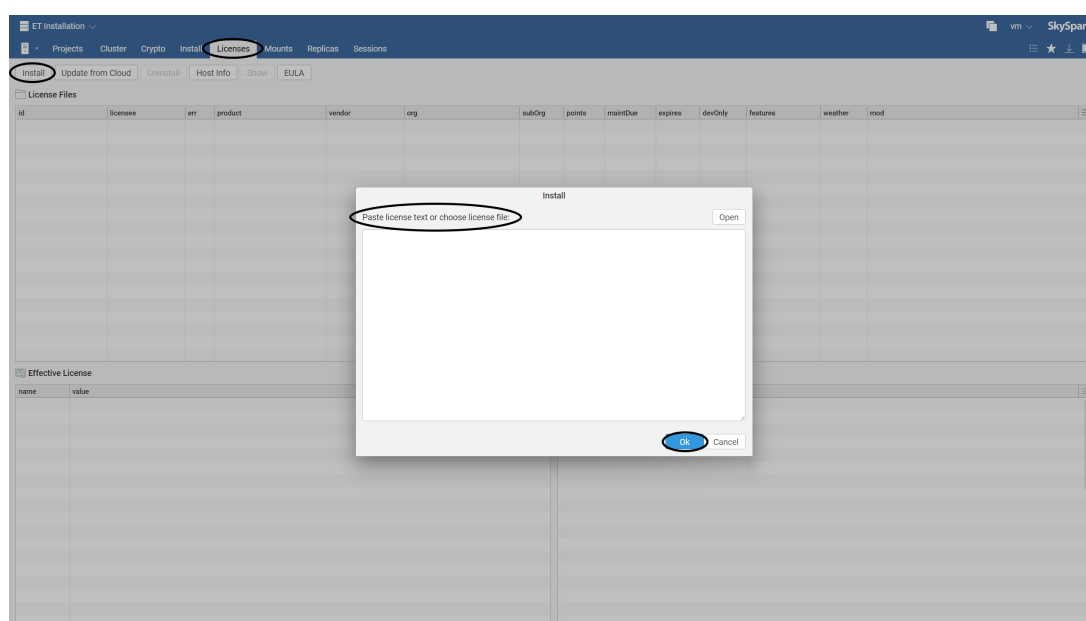
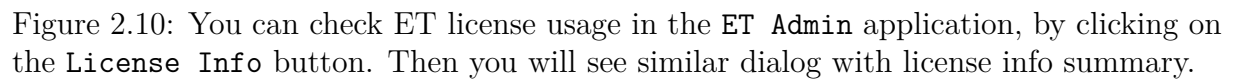
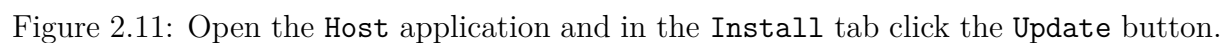


Figure 2.9: Open the tab **Licenses**, click the button **Install** and paste the text from your license file.



Update of ET can be also done using SkySpark user interface.



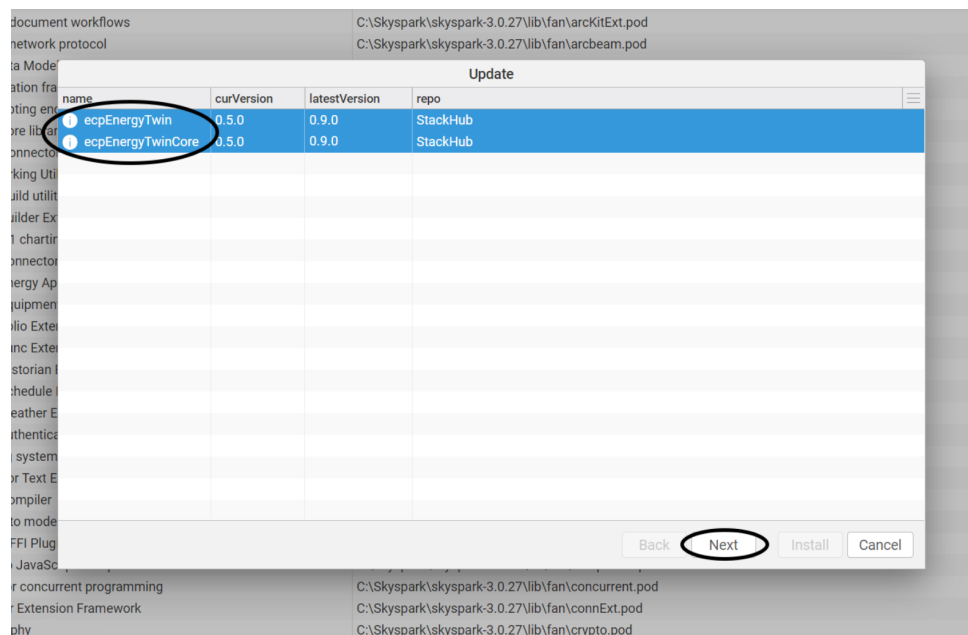


Figure 2.12: Dialog with packages that can be updated will appear. Select ET packages (or just one of them) and click the **Next** button.

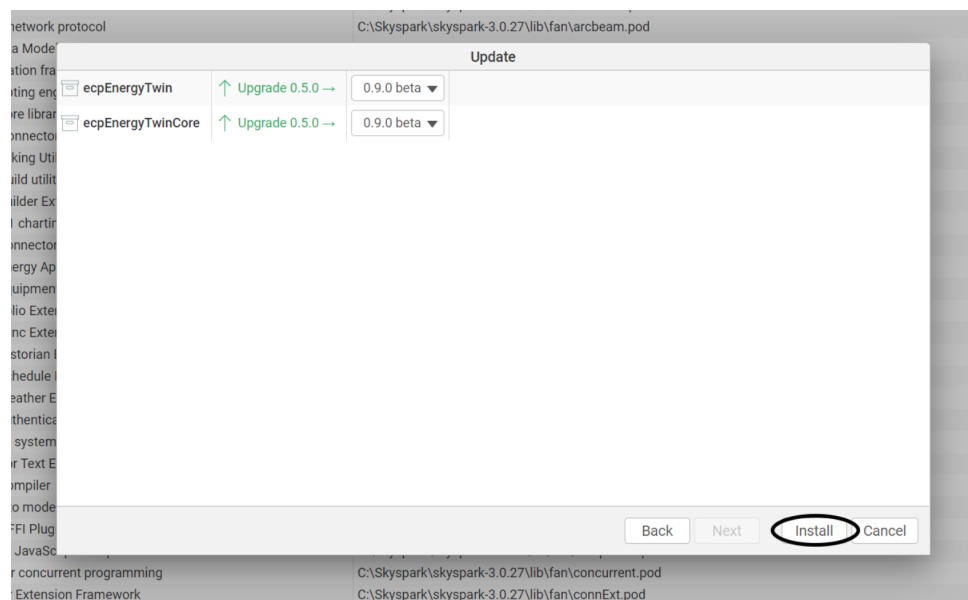


Figure 2.13: Confirm update by clicking on the **Install** button. Note that update of **ecpEnergyTwinCore** requires SkySpark restart, while update of **ecpEnergyTwin** does not require restart. **ecpEnergyTwinCore** includes Fantom code and therefore SkySpark restart is need. **ecpEnergyTwin** includes Axon code only and therefore update of this pod file only does not require SkySpark restart.

3 Demo data

ET includes demo data and one identified model. These demo data can be generated and used without any ET license - it is a demo regime of ET.

Just go to the **Admin view** and press the **Generate demo data** button. The same can be done by function `etDemogen()`.

4 Troubleshooting

In case of problems with ET models try the following steps:

1. Look into **Admin view** for any warnings related to the particular model that does not work.
2. Run function **etFixModels** with reference to the particular model that does not work. If no model is specified, **etFixModels** tries to fix all ET models. This function checks mandatory tags and sets default values if they are missing.
3. Try to **Train** model once again.
4. Contact the ET team for support.