

configuring jupyter

Contents

- generating a config file
- changing the default launch directory
- configuring the jupyterlab terminal

Note

These steps are **optional**, as in *most* cases you will be able to use **jupyter** with the default settings.

generating a config file

In order to change the settings used by **jupyter** on launch, you first have to generate a configuration (“config”) file.

To do this, open the **Command Prompt** from **Anaconda Navigator** (making sure that your `egm722` environment is active). At the **Command Prompt**, enter the following command:

```
jupyter lab --generate-config
```

[Skip to main content](#)

This should create a new folder, `.jupyter`, in your `home` directory, along with a python script in that directory: `jupyter_lab_config.py`.

Note

Be sure to check/note the location that the command prints out - it may be slightly different from what I have on my computer.

changing the default launch directory

By default, **Jupyter Lab** will open in your `home` directory (on Windows, this is most likely `C:\Users\<your_username>`), or in whatever directory you launch it from.

For security reasons, **jupyter** will not allow you to navigate to the parent directory of the launch location, so if you have cloned the repository to a different location (e.g., `C:\egm722\`) or an external drive such as `D:\` and you launch from your `home` directory, you will need to change the default opening folder to wherever you have cloned your repository.

At the command prompt, with your `egm722` environment activated, enter the following command:

```
jupyter --paths
```

This will show you the path to the version of **jupyter** used by your `egm722` environment:

[Skip to main content](#)

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19043.1586]
(c) Microsoft Corporation. All rights reserved.

(egm722) C:\Users\e16006469>jupyter notebook --generate-config
Writing default config to: C:\Users\e16006469\.jupyter\jupyter_notebook_config.py

(egm722) C:\Users\e16006469>jupyter --paths
config:
  C:\Users\e16006469\.jupyter
  C:\Users\e16006469\Anaconda3\envs\egm722\etc\jupyter
  C:\ProgramData\jupyter
data:
  C:\Users\e16006469\AppData\Roaming\jupyter
  C:\Users\e16006469\Anaconda3\envs\egm722\share\jupyter
  C:\ProgramData\jupyter
runtime:
  C:\Users\e16006469\AppData\Roaming\jupyter\runtime

(egm722) C:\Users\e16006469>_
```

In the example above, it's:

```
C:\Users\e16006469\Anaconda3\envs\egm722\etc\jupyter
```

Now, copy the script `jupyter_lab_config.py` into that folder (you may need to create a new folder, `jupyter`, in `C:\Users\<your_username>\Anaconda3\envs\etc`).

Open this newly-copied script in your IDE of choice (or a text editor such as **Notepad++** or **Notepad**) and search for `c.ServerApp.root_dir` - for me, it's at line 1018:

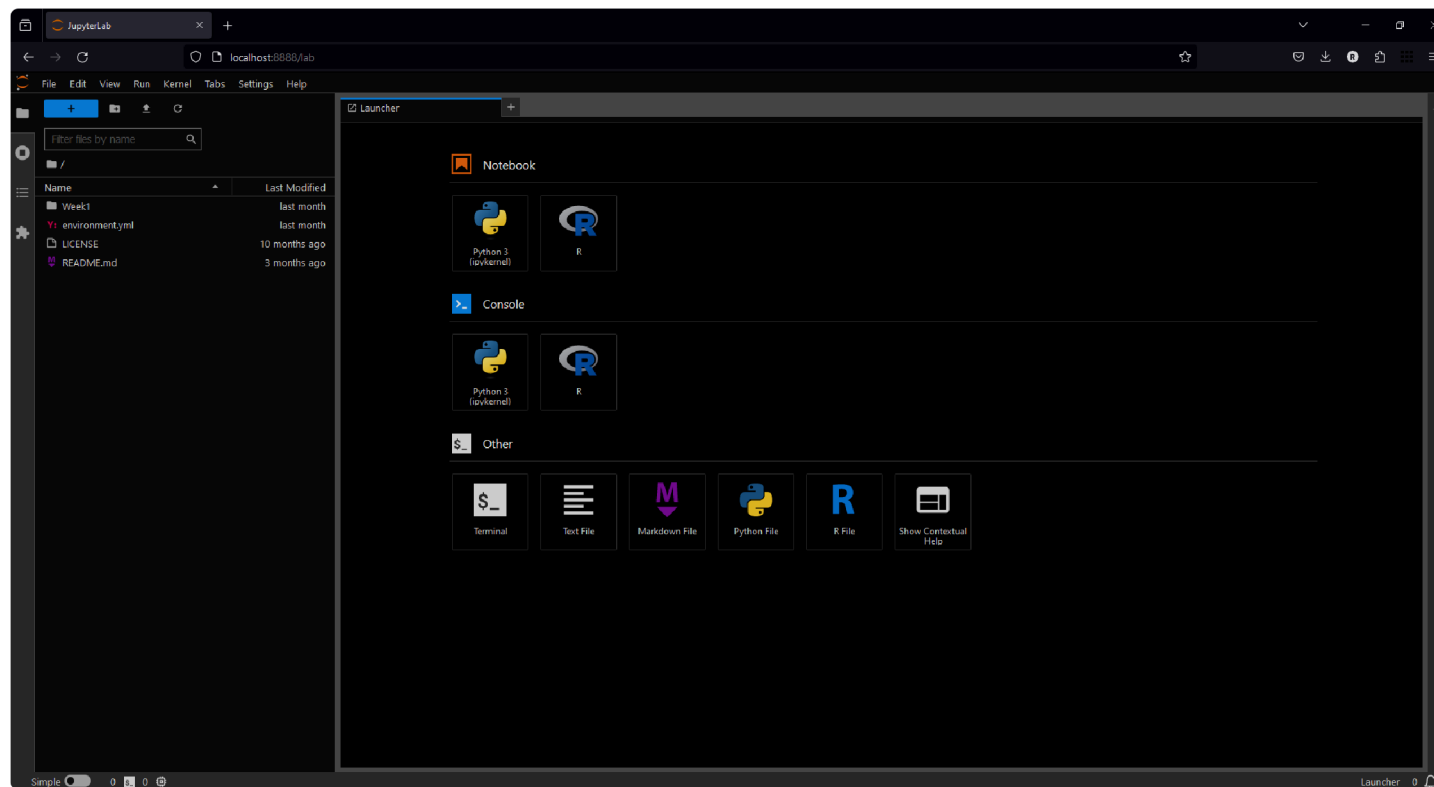
```
1016     ## The directory to use for notebooks and kernels.
1017     # ...
```

[Skip to main content](#)

Uncomment this line (remove the # and the space from the start), and add the path to your repository here (remember to add an `r` before the first quotation mark):

```
1016 ## The directory to use for notebooks and kernels.  
1017 # Default: ''  
1018 c.ServerApp.root_dir = r'C:\Users\egm722\egm722'
```

Now, save the file, and launch **Jupyter Lab**, making sure that your `egm722` environment is still enabled. You should see that it opens in your repository folder by default:



[Skip to main content](#)

Note

This has only set the default “root” directory for *this* version of **jupyter**.

If you create another conda environment, you will need to repeat the steps of copying the config file to the `<path-to-conda>\envs\<new environment>\etc\jupyter` directory, then editing the `c.ServerApp.root_dir` setting to point to the desired directory.

configuring the jupyterlab terminal

This step will enable you to use the **Terminal** in JupyterLab with a conda environment pre-loaded.

Note

This step should only be necessary on a Windows computer. To check whether you need to complete this step, launch **Jupyter Lab**, then open a **Terminal**.

If you see a prompt that looks like the following:

```
(egm722) C:\Users\bob\egm722>
```

Then you have already changed the terminal from the default **PowerShell** to the **Command Prompt**, and you can move on to installing [PyCharm](#).

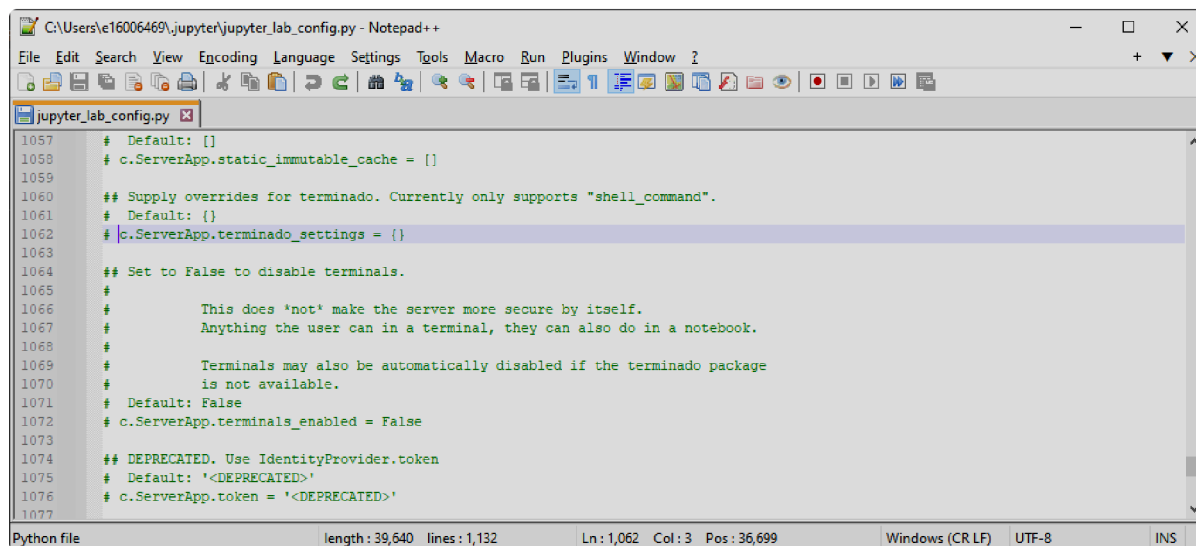
If you are using Windows, we need to change the **Terminal** from the default (**PowerShell**) to the **Command Prompt**

[Skip to main content](#)

Warning

If you have not already done so, please complete the steps in the section [generating a config file](#) above.

Open the original config file in **Notepad++** or a similar text editor (it should be located at `%HOME%\jupyter\jupyter_lab_config.py`), and search for `c.ServerApp.terminado_settings` (for me, this is at line 1062):

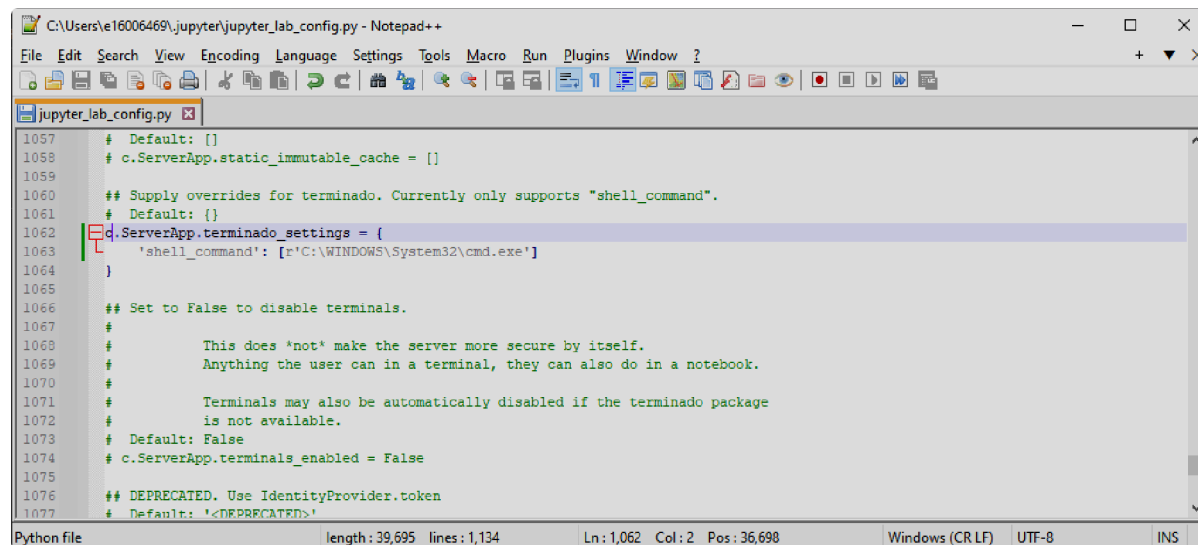


```
1057 # Default: []
1058 # c.ServerApp.static_immutable_cache = []
1059
1060 ## Supply overrides for terminado. Currently only supports "shell_command".
1061 # Default: {}
1062 # c.ServerApp.terminado_settings = {}
1063
1064 ## Set to False to disable terminals.
1065 #
1066 # This does 'not' make the server more secure by itself.
1067 # Anything the user can in a terminal, they can also do in a notebook.
1068 #
1069 # Terminals may also be automatically disabled if the terminado package
1070 # is not available.
1071 # Default: False
1072 # c.ServerApp.terminals_enabled = False
1073
1074 ## DEPRECATED. Use IdentityProvider.token
1075 # Default: '<DEPRECATED>'
1076 # c.ServerApp.token = '<DEPRECATED>'
1077
```

Inside of the curly brackets, add the following text:

```
'shell_command': [r'C:\WINDOWS\System32\cmd.exe']
```

[Skip to main content](#)



```
1057 # Default: []
1058 # c.ServerApp.static_immutable_cache = []
1059
1060 ## Supply overrides for terminado. Currently only supports "shell_command".
1061 # Default: {}
1062 c.ServerApp.terminado_settings = {
1063     'shell_command': ['r\\C:\\WINDOWS\\System32\\cmd.exe']
1064 }
1065
1066 ## Set to False to disable terminals.
1067 #
1068 # This does *not* make the server more secure by itself.
1069 # Anything the user can in a terminal, they can also do in a notebook.
1070 #
1071 # Terminals may also be automatically disabled if the terminado package
1072 # is not available.
1073 # Default: False
1074 c.ServerApp.terminals_enabled = False
1075
1076 ## DEPRECATED. Use IdentityProvider.token
1077 # Default: '<DEPRECATED>'
```

Note

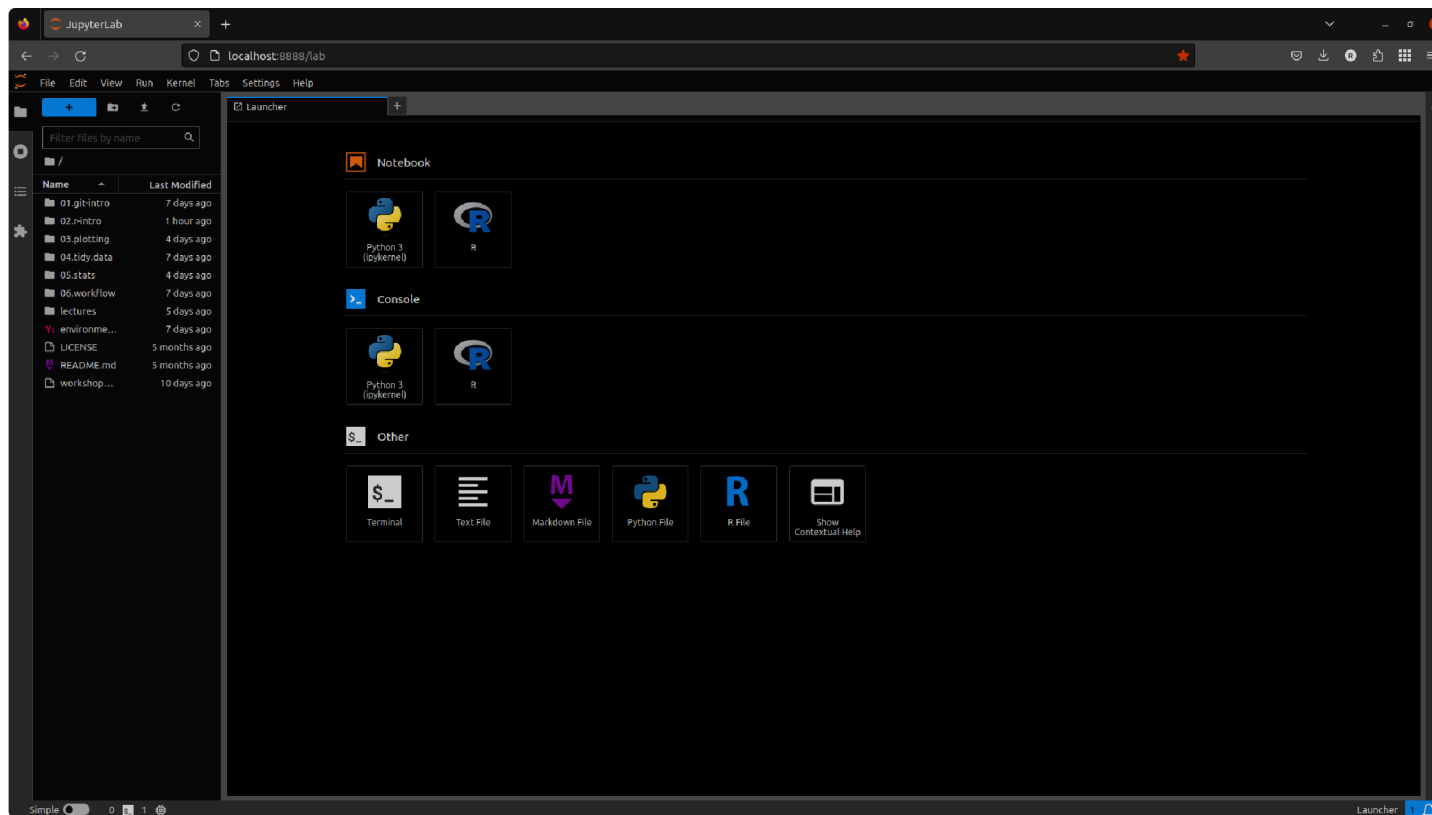
CMD.exe is, by default, located at `%windir%\system32\cmd.exe`. To double-check that your `%windir%` location is, in fact, `C:\WINDOWS`, you can type `echo %windir%` at the command prompt, and use the location printed out from that command.

Once you have changed the file, save the changes, then close it. Now, launch **JupyterLab** from the command prompt (again, making sure that your `egm722` environment is active):

```
jupyter lab
```

You should see a browser window like this open up:

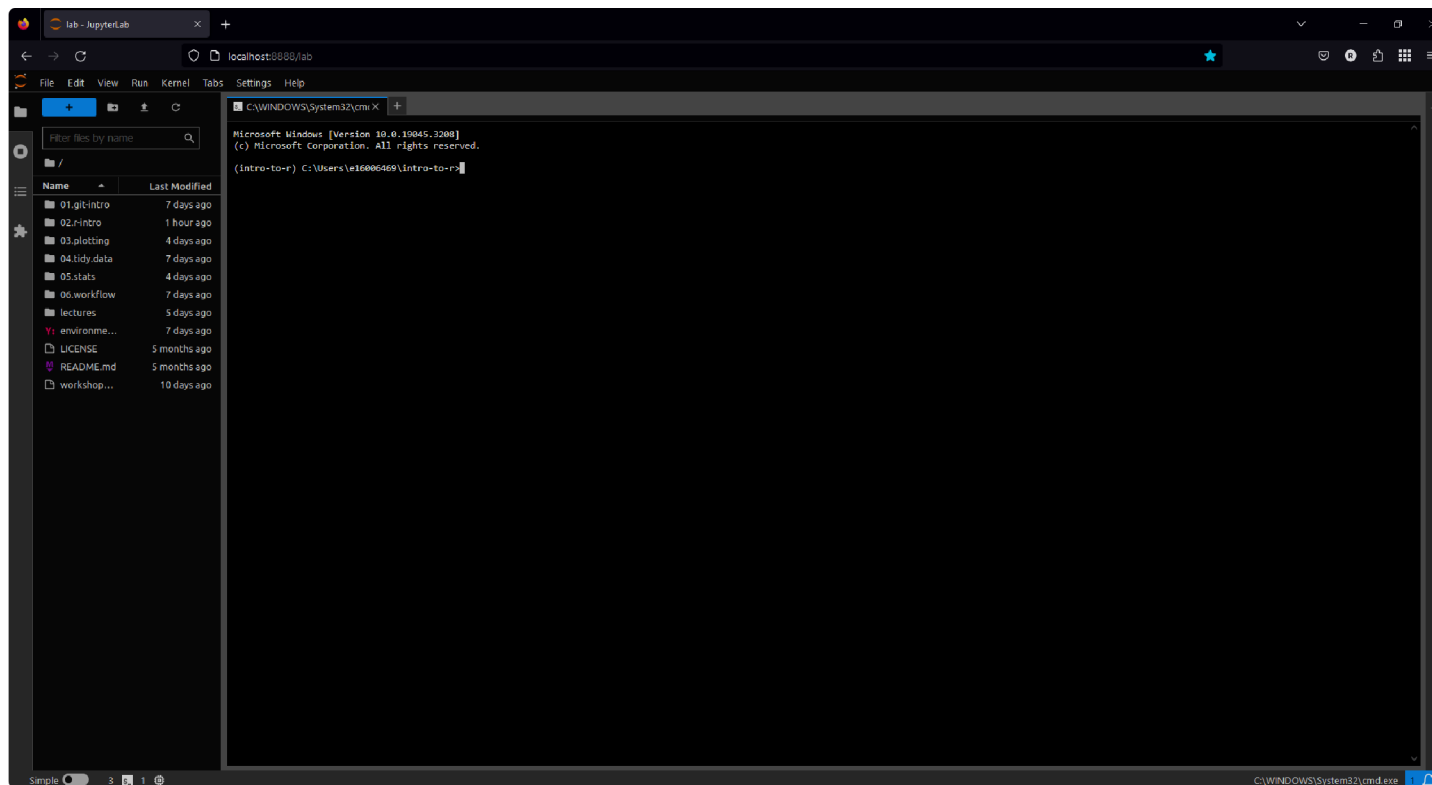
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If you don't see this exactly, don't worry. Click the blue + button in the upper left-hand corner of the window to open the **Launcher**.

Next, click on **Terminal** under **Other** to launch a terminal window. You should see something like this:

[Skip to main content](#)



If you don't see a **Command Prompt** session with your `egm722` environment activated, please let me know and I will do my best to help troubleshoot.

< [Previous](#)
[setting up a conda environment](#)

[Next](#) >
[pycharm](#)