

Software list for the MDE program

v. 27/01/2025 – EPF – A. Gademer / T. Drumond

Objective of this document:

This document tries to harmonize the tools used by the student during the Data Engineering program.

It is in a Work in progress state and is subject to change / does not pretend to exhaustivity.

If you are asked to install new software during the program, please inform us so we can update this documentation.

Online tools:

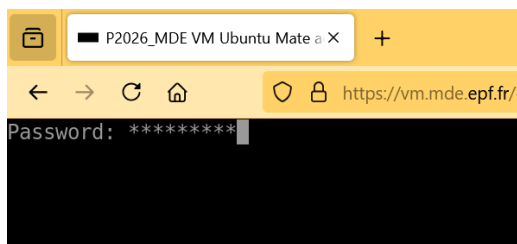
- <https://moodle.epf.fr/>
- <https://my.epf.fr/>
- <https://github.com/orgs/EPF-MDE>
- <https://vm.mde.epf.fr/> (OpenID authentication)

👉: Open **all the links** above and connect with your epfedu account.

If you don't have access, please contact the teacher.

👉: In Guacamole, click on the SSH connection. The password is we4reDATA .

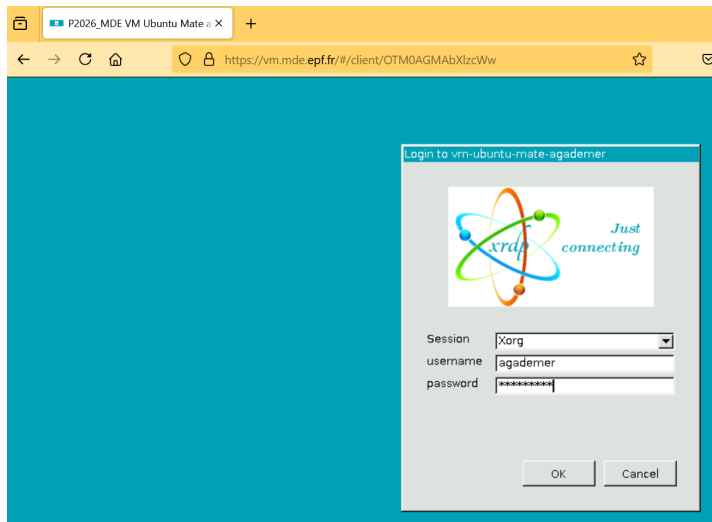
➤ P2026_MDE VM Ubuntu Mate agademer SSH



Once checked it works, click on the left arrow to come back to Guacamole Home.

👉: In Guacamole, click on the RDP connection. The password is we4reDATA .

🖥 P2026_MDE VM Ubuntu Mate agademer RDP



Once checked it works, close the tab.

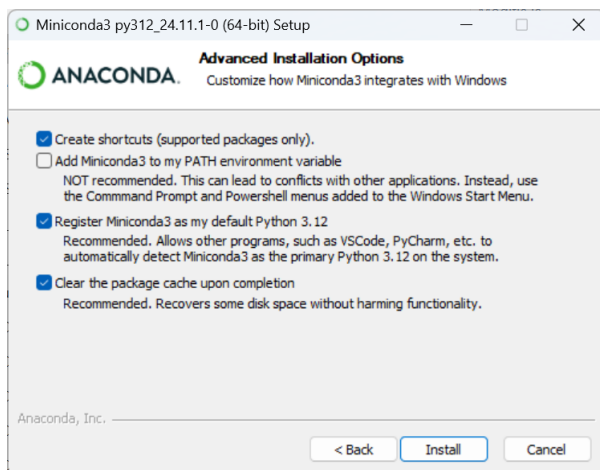
Integrated development environment (Win/Mac/Linux)

You can have other tools, but you need at least the following common base:

- Firefox → <https://www.mozilla.org/en-US/firefox/download/thanks/>
- Miniconda → <https://docs.anaconda.com/miniconda/install/>
- VSCode → <https://code.visualstudio.com/download>
- Docker Desktop → <https://www.docker.com/products/docker-desktop/>

👉: Install the previously cited software by following the associated instructions.

Tips :



👉: Setting Up Miniconda with VS Code

<https://medium.com/@aminasaheed223/a-comprehensive-tutorial-on-miniconda-creating-virtual-environments-and-setting-up-with-vs-code-f98d22fac8e2>

👉: Install the following plugins in VS Code

```
ms-python.python  
ms-toolsai.jupyter  
mechatroner.rainbow-csv  
ms-vscode.remote-explorer  
ms-vscode-remote.remote-ssh
```

👉: Install numpy and pandas library

Test it with

```
import pandas as pd  
pd.test()
```

👉: Run Docker Desktop and see if it open smoothly.

You may have to enable Virtualization Technology (VTx) in you BIOS.