Technical University  
of Applied Sciences  
Würzburg-Schweinfurt

Faculty of Computer Science and Business Information Systems

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# Cloud Native Computing

**Rancher Desktop**

Rancher Desktop is the favoured tool for exploration of cloud tools. It contains a containerruntime – likewise Docker – and a native Kubernetes deployment on a local machine. This makes it the perfect tool for our use-cases.

**Install Rancher Desktop**

Go to the Rancher Desktop Page and Download your specific release for your OS.

<https://rancherdesktop.io>

A detailed installation guide can be found at their documentation

<https://docs.rancherdesktop.io>

To beware you from some caveats:

**General**

* Remove any Docker installation that was previously on your system installed
* Make sure, your internet connection is stable
* Download a Coding Editor of your choice. (e.g., Visual Studio Code https://code.visualstudio.com)

**Windows Specific:**

* Though not required, we recommend downloading a WSL Linux distribution install like Ubuntu, Debian or OpenSuse as fallback, so rancher-desktop can inject its capabilities into these distributions**. For following this exercise on your machine, you will need any Distribution (Ubuntu, Debian, OpenSUSE) installed on your system.**
* When running with a WSL Linux distribution, additional steps in the FAQ-section of their documentation may be required. Currently these are the last two steps documented in the FAQ-Section.
* After installing and configuration of your WSL Linux Distribution expose Rancher Desktop and its tools your selected Distribution by clicking the checkbox for your installed Distribution
* Make sure that you have selected **dockerd (moby)** as your Container Runtime

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Automatisch generierte Beschreibung

**Test Your installation**

Open a Terminal Window. In Windows this should be any type of Linux distribution located on your machine.

Try out the following command:

* docker ps

It should display the following result. This indicates, that your installation worked as intended and you can begin developing cloud components.

* docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

If this fails, see FAQ section of Rancher Desktop documentation. If your error is not listed, or the workaround does not work, feel free to contact us.

Please make sure to check your installation properly. If any questions occur, we will discuss them throughout the lesson.