

Setup instructions for PyCOMPSs tutorial

For a more efficient procedure during the tutorial, we recommend to perform the following setup actions before the tutorial:

1.- Prepare the environment:

Alternative 1: Use of docker container (recommended for Linux and Mac-os):

- 1) Install docker:
 - Go to <https://docs.docker.com/engine/install/> and follow the instructions for your platform
 - *Linux*: If your linux distribution is old, the docker version in the system package will be old and has several bugs. Please upgrade it following the instructions in the web.
- 2) Get COMPSs docker image:
 - **docker pull compss/compss-tutorial:3.3**
 - Note: If the docker pull command fails be sure you have internet connection, the Docker service is running (sudo service docker start) and your user is in the docker group (sudo usermod -aG docker \$USER)*
- 3) Install pycompss-cli:
 - Linux: **sudo python3 -m pip install pycompss-cli**
 - Mac-os: **pip install pycompss-cli**

For Java Hands-on

- 4) Install maven
 - <https://maven.apache.org/install.html>
- 5) A Java IDE is recommended for editing Java code (such as Eclipse)
 - <https://www.eclipse.org/downloads/>

Alternative 2: Using Virtual Appliance (recommended for windows):

- 1) Install VirtualBox
 - Download from <https://www.virtualbox.org>
- 2) Download the tutorial VM.
 - <https://compss.bsc.es/releases/vms/Tutorial-base.ova>
- 3) Start the VM image
 - Start VirtualBox
 - Import the COMPSs VM image
 - Start COMPSs VM image
 - user: **compss**
 - password: **compss2021**
- 4) Install tutorial data:
 - `./install_tutorial.sh 3.3`

2.- Setup a WorkflowHub account:

1) Create your WorkflowHub account

- Open <https://workflowhub.eu/>
- Click “Register”
 - “Log in using GitHub” or
 - Register with your e-mail
 - Mandatory: First name, Last name, e-mail. Recommended: ORCID
 - Confirm registration with received e-mail

2) Join “COMPSs Tutorials” team (“eFlows4HPC” Space)

- “Join a Team”
 - Search for “COMPSs Tutorials”
 - Organization:
 - Search for your institution not only by acronym, also with full words
 - Can try also: Browse -> Organizations -> Country (filter)
 - If not found: Create -> Organization

IMPORTANT: Please, let us know if you have any issue: support-compss@bsc.es