

Semantic Web

KEN3140

Starting your workspace on the
Data Science Research Infrastructure



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Data Science Research Infrastructure

We will use the Data Science Research Infrastructure (aka. **DSRI**) for this lab

The DSRI is what people like to call the “cloud”, like Amazon Web Service or Google Cloud Platform. But it is developed, hosted and maintained at Maastricht University for doing research.

And you can use it for free 

Without almost any limitations: on the DSRI you can start any service in containers!




Here we will use it with **JupyterHub** to start notebooks.

Start and access your workspace

If you have any issues with the DSRI always think to check the extensive documentation:

<https://dsri.maastrichtuniversity.nl> 

1. Connect to the **UM VPN**: <https://dsri.maastrichtuniversity.nl/docs/guide-vpn>
2. Go to JupyterHub, **login using your student ID** (aka. your “I number”),
<https://jupyterhub-semanticweb-course.apps.dsri2.unimaas.nl>
3. Start your notebook with the resources you need
4. You should arrive in the folder **persistent/UM_KEN3120_SemanticWeb** with all the folders for the labs 

What you need to know: persistent storage

The notebook will be running on a server, not on your laptop

So you will need to move all files you want to work with in this notebook

You can do it simply by using drag and drop

Always use the **persistent** folder to make sure the data will not disappear

Anything outside the persistent folder will be deleted forever if your notebook container is restarted (that can randomly happen)

What you need to know: labs materials


The labs materials are in a git repository on GitHub:

https://github.com/MaastrichtU-IDS/UM_KEN3140_SemanticWeb


This repository will be automatically cloned in your Jupyter notebook at the start

We will let you know if you need to update the repository, in case we change some files along the course

To update the repository you can either

- Use the **Git JupyterLab extension** to pull the new changes: click on the Git tab, and then the small cloud button at the top left 
- Or use **the terminal**, go to the **UM_KEN3140_SemanticWeb** folder, and run the command ``git pull``

What you need to know: maintenance

 The **DSRI will be disconnected the week from the 24th to the 28th of October** for maintenance reasons

Keep this in mind knowing your final exam will be on the 26th of October

Make sure you downloaded all your code from the persistent volume before the maintenance, as it can sometime lead to loss of some storage