

Onyxia and the dream of CSPA

SOAPBOX HLG-MOS 2023

[HTTP://ONYXIA.SH/](http://onyxia.sh/)

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Statistisk sentralbyrå
Statistics Norway

Features

- Launch Docker images on-demand on a Kubernetes cluster. CLOUD AGNOSTIC!
- Customizable catalog for institutional needs.
- User-defined resource allocation for RAM, CPU, and GPU.
- Custom init script execution at launch.
- Environment variable configuration within containers.
- Service configuration save and restore functionality.
- S3 integration for data management (open standard). OUT OF THE BOX
- Vault integration for secret management.
- Keycloak integration for user authentication.



- < Reduce
- Home
- My account
- Service catalog
- My Services
- My Secrets
- My Files



Welcome Trygve!

Work with Python or R, enjoy all the computing power you need!

[New to the datalab?](#)



An ergonomic environment and on-demand services

Analyze data, perform distributed computing and take advantage of a large catalog of services. Reserve the computing power you need.

[Consult the catalog](#)



An active and enthusiastic community at your service

Use and share the resources available to you: tutorials, training and exchange channels.

[Join the community](#)



Fast, flexible and online data storage

To easily access your data and those made available to you from your programs - S3 API implementation

[Consult the data](#)

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Service catalog

Explore, launch and configure services with just a few clicks.
 You are exploring Helm Chart Repository [Interactive services: IDE for datascientists.](#)

- Interactive services**
- Databases
- Deprecated
- Automation
- Experimental
- Dataviz
- Homebrew

Jupyter-python

The JupyterLab IDE with Python, Julia, and a collection of standard data science packages.

Launch

Rstudio

The RStudio IDE with a collection of standard data science packages.

Launch

Vscode-python

The Visual Studio Code IDE with Python, Julia, and a collection of standard data science packages.

Launch

Jupyter-pyspark

The JupyterLab IDE with PySpark, an interface to use Apache Spark from Python.

Launch

Jupyter-python-gpu

The JupyterLab IDE with Python, Julia, and a collection of standard data science packages, with GPU support.

Launch

Jupyter-pytorch-gpu

The JupyterLab IDE with Python and the deep-learning framework PyTorch, with GPU support.

Launch

Jupyter-pytorch

The JupyterLab IDE with Python and the deep-learning framework PyTorch.

Launch

Jupyter-r

The JupyterLab IDE with R and a collection of standard data science packages.

Launch

Jupyter-tensorflow-gpu

The JupyterLab IDE with Python and the deep-learning framework TensorFlow, with GPU support.

Launch

Jupyter-tensorflow

The JupyterLab IDE with Python and the deep-learning framework TensorFlow.

Launch

Rstudio-gpu

The RStudio IDE with a collection of standard data science packages, with GPU support.

Launch

Rstudio-spark

The RStudio IDE with a collection of standard data science packages. It includes SparkR, an interface that provides an interface to use Apache Spark from R.

Launch

- English
- Français
- Deutsch
- Italiano
- Nederlands
- Norsk
- Suomi
- 简体中文

Sharing services

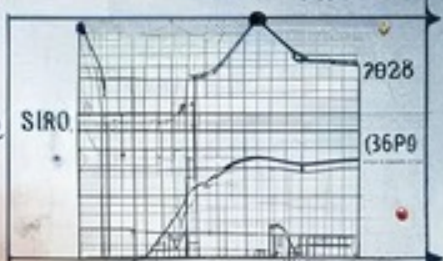
- 1SS AI/ML: Onyxia will be used as the infrastructure for the AI/ML ESS project
- Already being used by several other institutions – Quite mature!
- A lot of ready made services, and a template for creating new ones that are easily sharable!
- Out of the box services from Open Source providers



CSPA

SOPOTUAI

PMISSOMA P5A



DUON

CHIISI0455

COLDCRES

