InseeFrLab / onyxia Public

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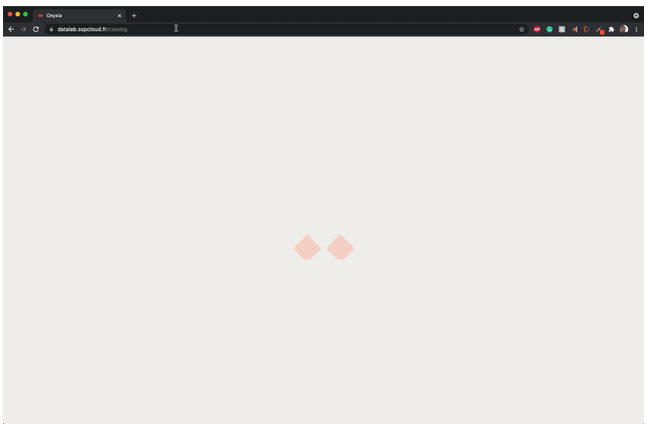
fcomte Update README.md	60a0b0a 12 days ago	69 commits
.github/workflows	Move resources from https://git.lab.sspcloud.fr/innovation/plateform...	2 months ago
resources	Update onyxia-dev-init.sh	24 days ago
step-by-step	Minor fixes	6 months ago
INSTALL.md	Minor fixes	6 months ago
LICENSE	Create LICENSE	6 months ago
README.md	Update README.md	12 days ago

A data science oriented container launcher

license MIT

Our instance of Onyxia @ INSEE - Onyxia Web - Onyxia UI - Onyxia K8s API

Onyxia is a web app that aims at being the glue between multiple open source backend technologies to provide a state of art working environnement for data scientists.
Onyxia is developed by the French National institute of statistics and economic studies (INSEE).



Launch.RStudio.mp4

About

A data science oriented container launcher

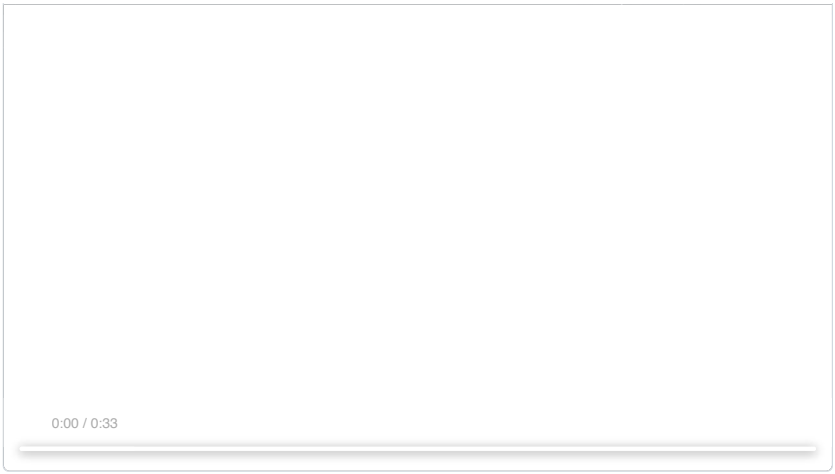
#datalab

Readme
MIT License
32 stars
11 watching
2 forks

Contributors 7

Languages

Shell 100.0%



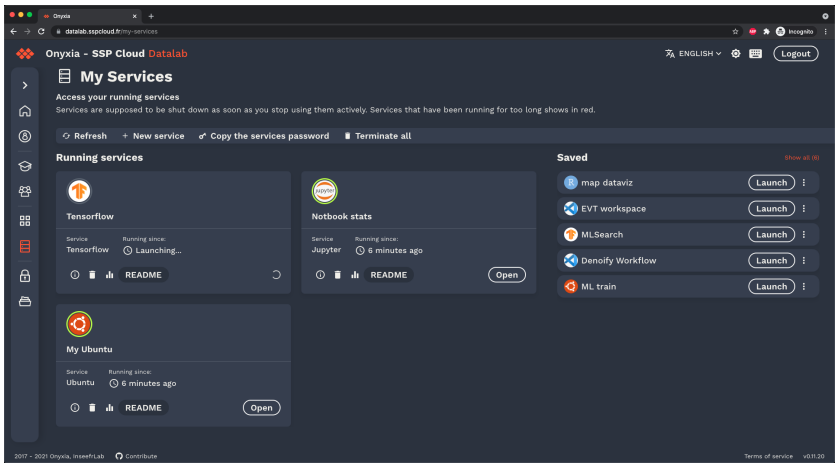
Core feature set:

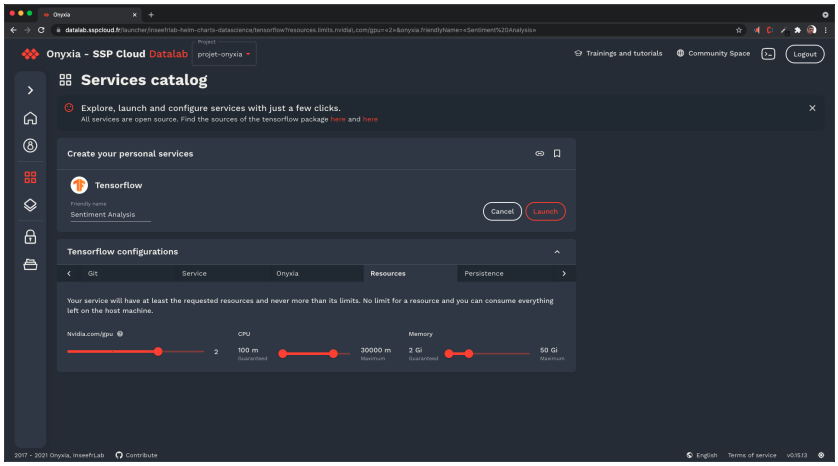
- An interface for launching docker images (e.g: Jupyter, RStudio) on demand on a Kubernetes cluster.
  The catalog of available images is not part of the app, you can create your own. (here is the catalog we build for the institute's needs.)
- Users can define the amount of RAM, CPU and **GPU** they would like to allocate to their containers.
- Specify a custom init script to be executed at launch.
- Define environnement variables to be made available in the containers.
- Save and restore your service service configurations
- Deep integration with S3 for working with data (S3 as the open standard, not the AWS service) and with Vault (for secret management)
- Keycloak integration.

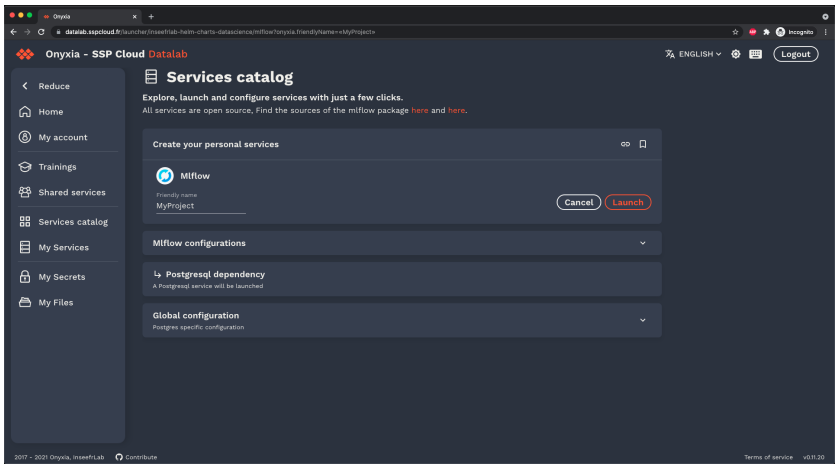
Table of content

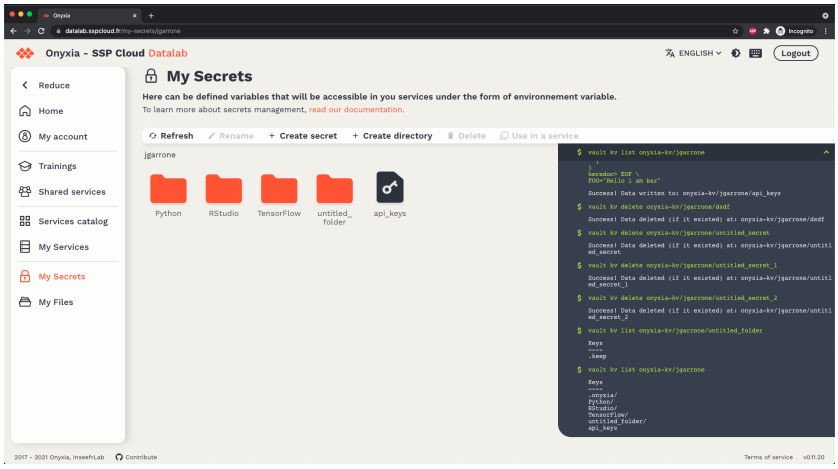
README.md

Screenshots

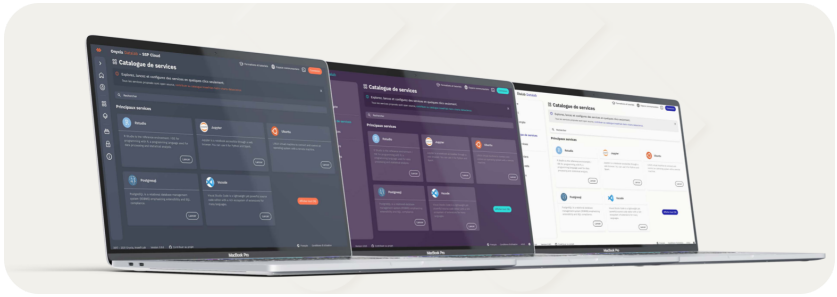


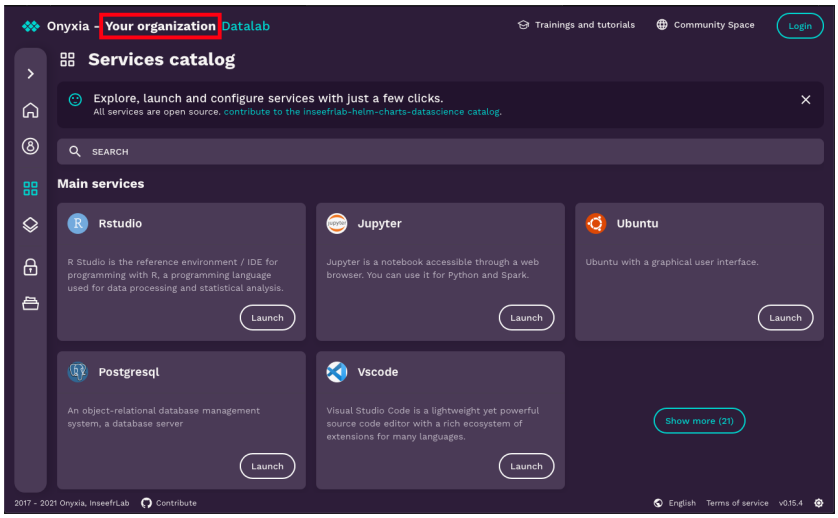






Deploy onyxia on your infrastructure today 🚀





The simplest way to install Onyxia is to use `Helm` .

```
helm repo add inseefrlab https://inseefrlab.github.io/helm-charts
helm install onyxia inseefrlab/onyxia --set ingress.enabled=true --set
ingress.hosts[0].host=datalab.yourdomain.com
```

Browse to `http://datalab.yourdomain.com` and enjoy :)

Note that this is only a bare installation of Onyxia with some major limitations (no authentication, deployed services won't be accessible ...). Read below for more configuration options.

Installation & configuration

See Installation

Modules

Onyxia is split into several modules :

Module	Description	Status
Onyxia WEB	Web UI (`React`)	✅
Onyxia API	Kubernetes API (`Java / Spring-boot`)	✅
Onyxia-UI	Design system and React UI toolkit	✅
Onyxia CLI	Command line application (`Go`)	🔶

Services catalogs

Onyxia relies on catalogs to provide users with a selection of services they can install in one click.
You can either create your own repositories or use the default ones :

Repository	Purpose	Status
Helm charts datascience	Datascience catalog using `Helm` (for `Kubernetes`) format	✅

Docker images for services

`InseeFRLab` maintains various `Docker` images that extends standard images so that they work nicely inside the datalab.
You can browse them here : Repositories using `docker-image` tag on `InseeFRLab`

Cloudshell

Onyxia integrates a `cloudshell` that is based on a `WebSSH` docker image.
The docker image used is codenamed `Shelly` and is available here : Shelly

Miscellaneous

Repository	Purpose	Status
Helm charts	Collection of Helm charts including Onyxia's Helm chart	✅

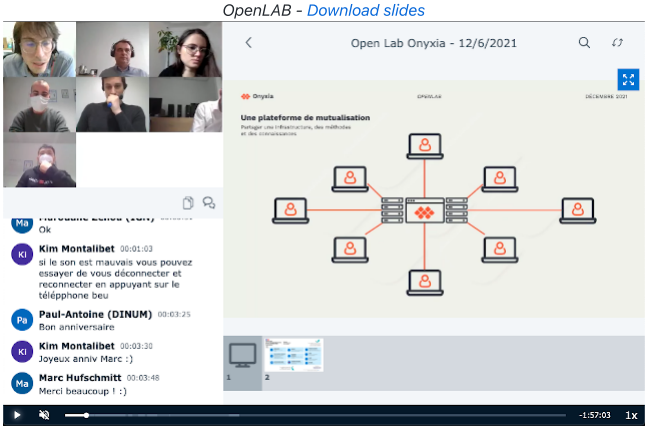
Repository	Purpose	Status
Simple default backend	A simple loading webpage that gets displayed for services that are not yet ready	✅

Infrastructure scripts

The `cloud-scripts` repository is a collection of scripts we used at some point at `Insee`. They are provided as is with minimal to no documentation and support. They are, currently at least, used as memo and not production grade code.
The repository is available here : cloud-scripts

Media

OpenLAB - Download slides



Article d'acteurs publics

Les Entrepreneurs d'intérêt général - Découvrir le programme

Roadmap

The Onyxia project is actively developed. We are constantly working on new functionalities to meet our users needs at Insee. Do not hesitate to get in touch with us to ask questions or share your ideas!

Recently released

- New services: Argo CD, Argo Workflow, Pinot
- Step by step Onyxia deployment guide
- Customizable UI themes
- Onyxia installation documentation
- Project documentation (`CONTRIBUTING.md` ...)

Coming soon

- Projects and collaboration
- Transform File Explorer into Data Explorer

WIP 🏗️

- Onyxia installation documentation
- Project documentation (`CONTRIBUTING.md` ...)
- New UI for FileExplorer

Ideas 💡

- End user documentation
- Extend the catalog of data science services
- Data governance (data & metadata management, data cataloging, data lineage, data quality management)
- What data management features does a user need in Onyxia (objects explorer, PV manager...)?
- Billing, monitoring & housekeeping of services
- Onyxia deployment automation
- Instance administration (users & groups...)