A complete research and teaching platform optimized for data and code.
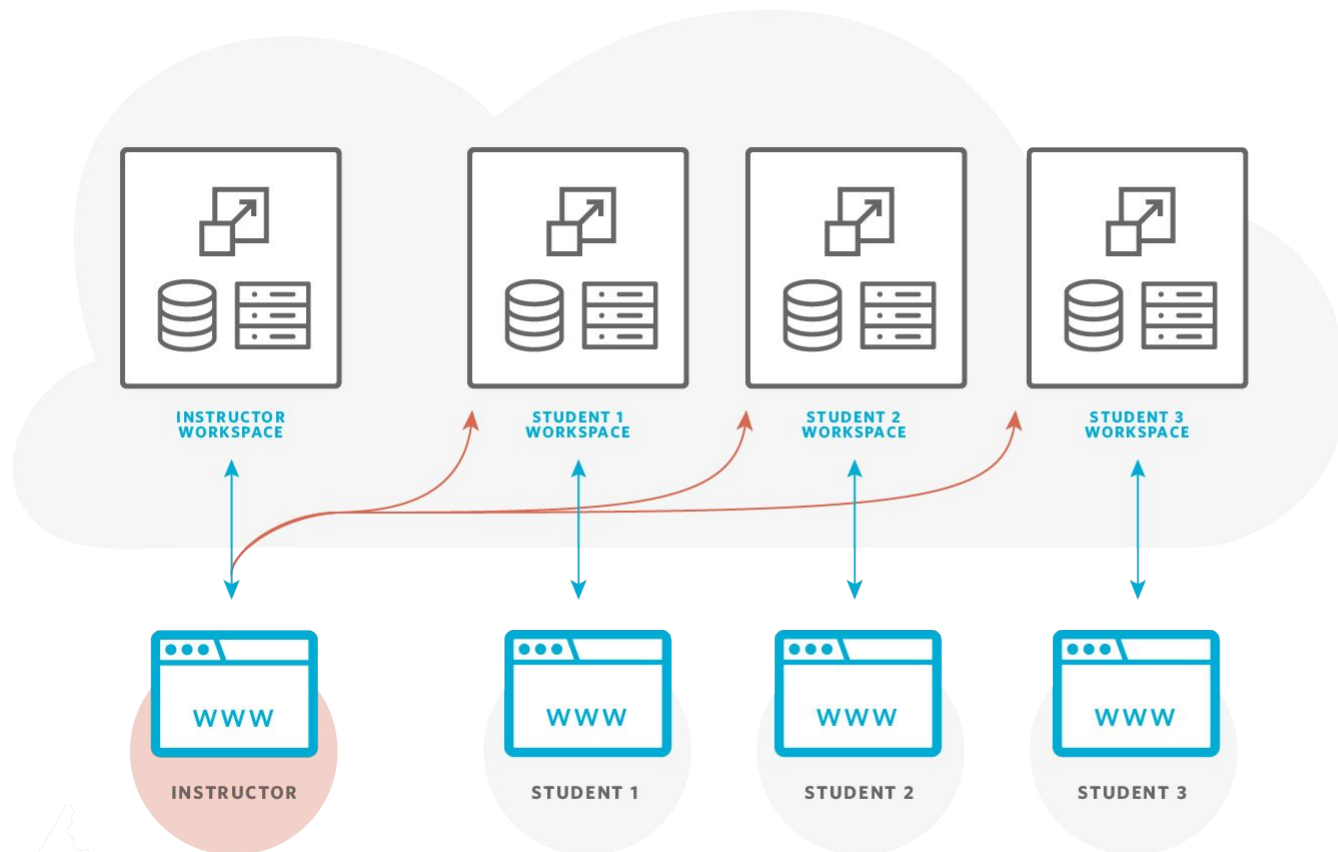
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Digital education

A better teaching experience for everyone

Nuvolos features for digital education

identical
student
environments

instructor has
control over
all environments

purely
web based
access

Nuvolos creates novel and simplified workflows in digital education:

- A clean, simple, browser-based environment, with applications running in the cloud

- Instructors' **complete control** over students' environments; creation of **identical environments** for students is made trivial

- **Licensed software** (e.g. Matlab, Stata, SAS) are supported, granted that the licensee brings his/her licence to Nuvolos

- **Dissemination of teaching material** is greatly simplified by the distribute feature of Nuvolos

- **Group work** is supported by Nuvolos, where it is possible to create shared work environments

- Education, research, and data are all integrated in Nuvolos to form a **complete environment**

Digital education: Frequently asked questions

Q: How complicated is it to set up a computer class with Nuvolos?
A: Classes can be set up and material uploaded/developed by the instructor using a web-browser directly on Nuvolos. This can be done completely self-service in a fraction of the time of usual computer lab setups.

Q: How do students get started?
A: Students are invited via a shareable link or e-mail invitations. Students simply need a web browser, and once they accept the invitation, they can immediately start to work in the environment configured by the instructor.

Q: Is it possible to see what my students are doing?
A: Yes. Students work in private (or group) environments, but the instructor has full control over these environments and can view their progress in real-time.

Digital education: Frequently asked questions

Q: Does Nuvolos require students to use a custom application interface?

A: Students work with the original interface of scientific applications (e.g., Jupyter, Rstudio). Therefore, they can easily generalize outside of Nuvolos what they learned.

Q: How is teaching material disseminated?

A: Nuvolos' distribute feature simplifies dissemination of teaching material and strongly supports. Incremental dissemination. It is also possible to disseminate software environments or updates.

Scientific research
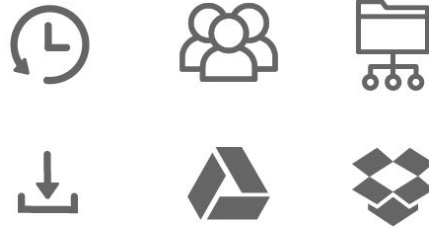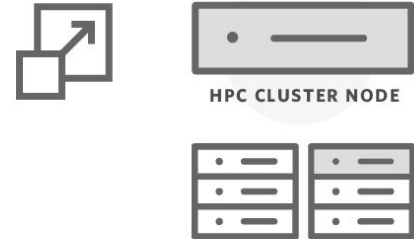
Create reproducible and shareable work

Scientific Research

RESEARCHER COMPUTER

WWW

NUVOLOS

Data hosting and access

Project control

Scale to HPC cluster

HPC CLUSTER NODE

Scientific Research: Boosted and nuisance-free

Nuvolos makes researchers' lives easier and provides innovative solutions:

- Purely cloud-based, scalable and complete environment for computation and data, which is integrated in a simple web platform

- Simplified project management and access control

- Nuvolos **enhances reproducibility** of research results, by providing a complete, consistent and point-in-time **version history** of data, code and application packages

- **Skilled and experienced scientific support**

- Research, data and education are all integrated in Nuvolos to form a **complete environment**

Scientific Research: Frequently asked questions

Q: What does a scalable, web-based cloud environment mean?

A: You only need a working internet connection and a browser to access the computational resources and applications of Nuvolos. If you have tailored needs, we can scale available resources to suit your requirements.

Q: Is it possible to share my results with a specific group of people?

A: Yes. You can invite and share information with any interested party.

Q: Can I use a particular software?

A: Reach out to our support if your software is currently not supported. We are supporting a large and growing number of software tools on our platform and we aim to cover the most extensive range possible.
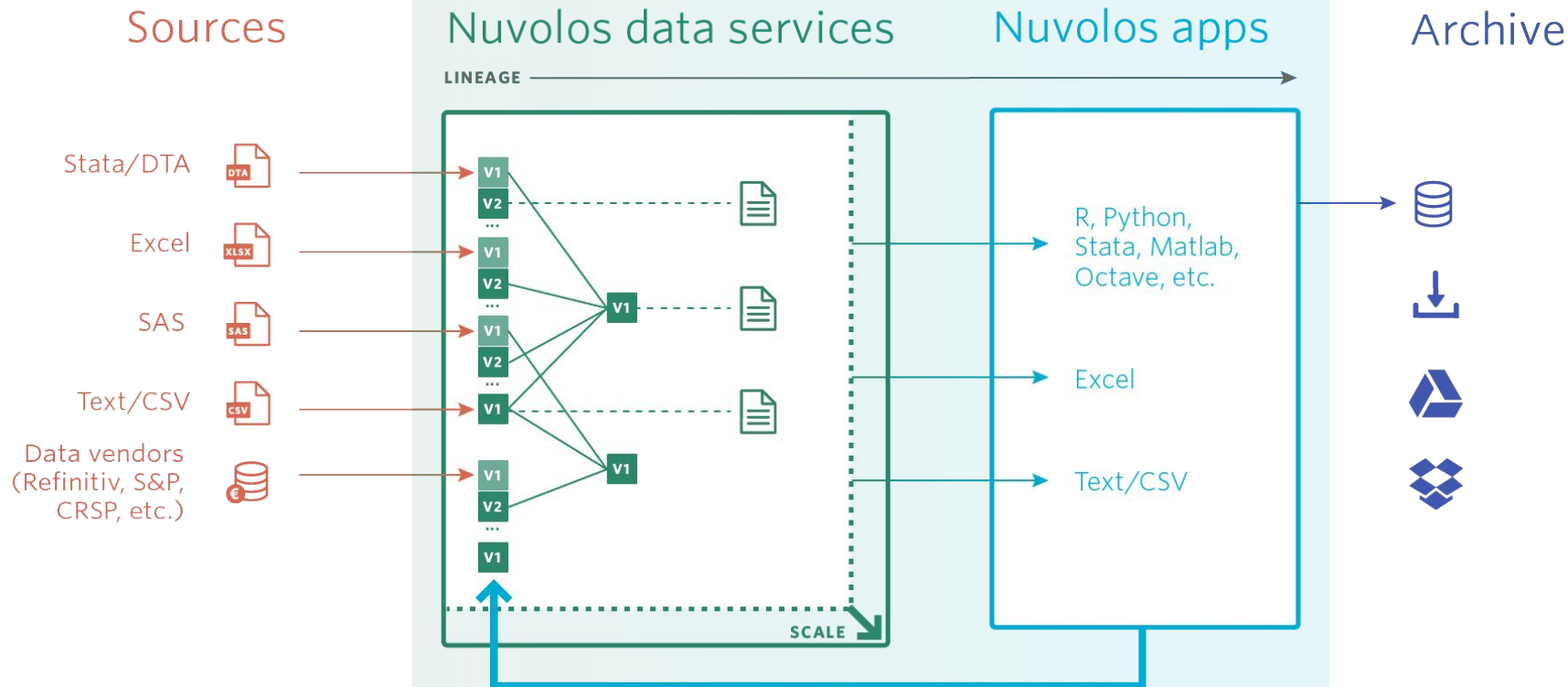
Q: I need help getting a particular bit of code to work (or run faster), software to install, et cetera. Can I get support?

A: Simply reach out to us with your problem and we can provide scientific support.

Data platform
Universal access to data and computation

Data Platform: Integrated storage solution

Nuvolos is a native cloud data **hosting platform** backed by best-in-class service:

- Nuvolos is designed for **secure data sharing and collaboration**

- Organisations unify disparate data channels and custom integrations inside **one central repository** in Nuvolos, with the ability to distribute any data stream to users, applications and other destinations worldwide

- Nuvolos **automates data onboarding** from many popular data providers/datasets (e.g. CRSP, COMPUSTAT) using integrated pipelines

Data Platform: Integrated storage solution

Nuvolos is a native cloud data **hosting platform** backed by best-in-class service:

- Workflow reproducibility is enhanced by **data version control**

- Seamless **integration** into education and research workflows

- Replaces high fixed costs with **pay-what-you-use variable costs**

Data Platform: Frequently Asked Questions

Q: Is Nuvolos a data vendor?

A: No, Nuvolos contains a storage solution for your data. Nuvolos has built in support to connect to your data sources in order to automatically receive and store data versions.

Q: What data can I store in Nuvolos?

A: Active licensed, proprietary or open data destined to education or research. Popular data sources include: data vendors, experiments, proprietary (self generated) data or data sets available from research repositories and long term storage archives.

Q: For data subscriptions, do I need to change my licensing agreement with the data vendor?

A: Generally no. Data vendors are the licensors who deliver data via delivery platforms or directly to you, the licensee. You store securely your licensed data in Nuvolos for downstream consumption in, e.g., education or research workflows.

Data Platform: Frequently Asked Questions

Q: How can I access data stored in Nuvolos?
A: You can access data directly from applications like R, Python, Matlab, Stata, SAS, etc. or via the unified web-based interface.

Q: Can I export data stored in Nuvolos?
A: Yes, if required you can export data in other formats like e.g. CSV.

Success stories

Success Stories: multiple possible avenues

Nuvolos has been successfully introduced with different service focuses:

- Some clients adopted Nuvolos primarily for education, by allocating other resources from their Nuvolos budget to education features

- Research groups adopted Nuvolos for its simple-to-use high-performance compute infrastructure

- Organizations adopted Nuvolos as their primary data management platform

Nuvolos offers flexible and competitive pricing of services with a focus on keeping total-cost of ownership the lowest possible.

Flexible pricing, for research and education

Personal
1 user

500 € P.A. FOR A SINGLE USER
PAY-AS-YOU-GO FOR EXTENSIONS

- ✓ Browser access
- ✓ 100 GB storage
- ✓ 8hr/day application use
- ✓ Email Support

Group
< 30 users

< 500 € P.A. PER USER*
AVAILABLE PACKAGES: XS, S

- ✓ Browser access
- ✓ > 200 GB storage per user*
- ✓ Unlimited application use*
- ✓ Professional Support
- ✓ Group management features
- ✓ Integrated scientific data warehouse
- ✓ Feature requests
- ✓ Flexible resource allocation

Institutional
> 30 users

< 500 € P.A. PER USER*
AVAILABLE PACKAGES: M, L, XL, XXL

- ✓ Browser access
- ✓ > 200 GB storage per user*
- ✓ Unlimited application use*
- ✓ Professional Support
- ✓ Organization management features
- ✓ Integrated scientific data warehouse
- ✓ Feature requests
- ✓ Flexible resource allocation
- ✓ Digital education

* DEPENDS ON PACKAGE SIZE AND THE NUMBER OF CONCURRENT USERS REQUIRED

About us

Who we are:

- Founded in 2015, as a spin-off from a Swiss university

- DNA deeply rooted in science

- Experienced and talented team of dynamic professionals with fresh ideas

What we stand for:

- Our goal is to **enhance scientific research** concerning reproducibility and results dissemination, and to **boost digital education**

- We aim to **simplify academic workflows**, by leveraging state of the art cloud and high performance computing cluster technologies

Alexandru Popescu, PhD
Co-Founder & CEO

Prof. Fabio Trojani
Co-Founder & President

Andras Sali, PhD
Partner & CTO