nuvolos

What is Nuvolos?

Nuvolos is a complete, web-based and scalable, research and education platform optimised for data and code. Users harness the power of modern cloud computing technology directly in the browser and collaborate in highly secure environments. We support the most popular interactive environments currently available, such as JupyterLab, RStudio, Stata, Matlab and more. Nuvolos targets a simple, streamlined and hassle-free user experience, so you can focus on researching or teaching students.

TRUSTED BY

UNIL | Université de Lausanne · UNIVERSITÉ DE GENÈVE · Imperial College Business School · ESSEC BUSINESS SCHOOL · UNIVERSITÄT BONN

RESEARCH

Scalability

Create research projects of any storage size or complexity and scale-up your interactive computing environment with one click. Spin up specialised compute resources (such as powerful CPU and/or GPU) for the environment you have been using. Resources are spun down when they are no longer in use to prevent runaway and idle time costs. Add and remove compute environments on-demand to support multiple concurrent experiments.

Dissemination, collaboration and reproducibility

Nuvolos elevates version control to a new level by capturing versions of your entire environment, including data, apps, configurations and models in snapshots. You can go back in time to see the state of your work at a particular moment in time.

Data platform

Nuvolos integrates a modern, scalable data platform to power your research projects. The platform is accessible on and off Nuvolos, benefiting research teams, particularly during the active research phase when many data sources need to be ingested, combined, and analysed quickly by different stakeholders from different locations. Version control of data and models simplify replicability and depositing in long term archival repositories.

EDUCATION

Scalability

Create and deliver online and in-person classes of any size, with identical environments guaranteed for each participant. Nuvolos has a sharp focus on educators' and students' needs, minimising time spent on servicing and maintaining computing environments.

Dissemination, collaboration and reproducibility

Leverage snapshots to create, collect, and grade assignments with Nuvolos without downloading, upload, or sending around any files. Group work is also supported, including collaborative editing/computing for students, enabling a seamless collaboration for students on complex projects.

Data platform

Advanced curricula, in many cases, contain empirical analysis performed on actual data. You can incorporate accurate research quality data via the data platform into the classroom, helping students get acquainted with the state of the art techniques and real-life examples of their chosen scientific fields.

Lars Renngardt
HEAD OF SALES
+41 44 585 2776
lars.renngardt@alphacruncher.com

RESEARCH

You are a **group of five** pursuing a research project. During the computation phase, you might require high-performance computing capabilities and potentially will run such computations about a third of your time during a year. Data generated in experiments or acquired for quantitative analysis is relatively large.

35.00 EUR
/ researcher / month, billed annually

All features

Cloud resources	
Compute capacity	15 vCPU / 60 GB RAM
High-performance storage	240 GB
Project management	
User management	✓
Role management	✓
Invite-only based access for users	✓
Group work	✓
Dropbox integration	✓
Git support	✓
Project documentation	✓
Video embedding	✓
Reproducibility	
Environment snapshots	✓
Environment distribution	✓
Project content distribution	✓
Integrations	
Single Sign-On (SSO)	eduGAIN*
Long-term archival repositories	✓
On premise HPC environments	✓
Support	
Live chat support	✓
E-mail support	✓
Staff onboarding and personalized training	✓
Applications	
RStudio	✓
JupyterLab with Python	✓
JupyterLab with Julia	✓
Stata	Bring your own Licence
SPSS	Bring your own Licence
Matlab	Bring your own Licence
Custom deployments	✓

Extra services

Scaling	
Scale-out to multiple concurrent computing environments	✓
Scale-up interactive computing environment	✓
GPU support	✓
Data integration	
Scalable table storage	✓
Scalable data query	✓
Scalable high-performance storage	✓
Large file storage	✓

EDUCATION

You represent a school offering a curriculum encompassing subjects from disciplines like science, technology, mathematics, statistics and engineering. A cohort of a **couple of hundred students** enrolls in courses requiring a computer lab for the course delivery every academic year. The capacity of the lab seats can accommodate **40 students at the same time**. The school decided to use the platform for educational purposes.

1.00 EUR
/ student / month, billed annually

All features

Cloud resources	
Compute capacity	40 vCPU / 160 GB RAM
High-performance storage	440 GB
Course management	
Institutional Sign-On (SSO)	eduGAIN*
Guaranteed identical environments	✓
Group work & Collaborative applications	✓
Assignment hand-in & grading	✓
One-click environment dissemination	✓
Git support	✓
Class documentation	✓
Video embedding	✓
User management	✓
Role management	✓
Invite-only based access for students	✓
Teaching material distribution	✓
Applications	
RStudio	✓
JupyterLab with Python	✓
JupyterLab with Julia	✓
Stata	Bring your own Licence
SPSS	Bring your own Licence
Matlab	Bring your own Licence
Custom deployments	✓
Support	
Live chat support	✓
E-mail support	✓
Staff onboarding and personalized training	✓

* EDUcation Global Authentication INfrastructure (https://edugain.org)