



EOSC EU Node Virtual Machines

Design and conduct experiments with
flexibility while ensuring reproducibility

EOSC EU NODE

open-science-cloud.ec.europa.eu

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The EOSC Virtual Machines service provides on-demand, customisable cloud computing environments for researchers, projects, and institutions. It enables scalable, secure execution of complex workflows without local infrastructure, supporting FAIR and Open Science across disciplines.

KEY FEATURES

Provision virtual machines on demand

Choose from flexible configurations to meet your needs

Connect to persistent* storage with secure data access

Manage VMs via an easy-to-use web interface

WHO IS IT FOR

Researchers

EU-Funded Research Projects

Research Performing Organisations

Research Infrastructures

*persistent during experimentation time

BENEFITS



European-hosted for data sovereignty & trust



Flexibility to run custom workflows

FAIR

Supports Open Science & FAIR Principles



Easy onboarding & user management



Available via your virtual credits

Cloud-Based Reliability: The Virtual Machines service is supported by a robust cloud infrastructure powered by OpenStack, ensuring scalable and on-demand computing resources.

High Availability: Designed for near-continuous usage, the service offers high uptime with regular maintenance and resource credit refresh cycles that help minimise downtime.

Real-Time Access: Users can remotely manage, monitor, and scale their virtual machines in real time, ensuring seamless availability for research, development, and production workloads.

USE CASES

Used by a pan-European research consortium for scalable, **cloud-based simulations** and **real-time data processing** in environmental studies.

Adopted by leading universities in Europe to establish **virtual labs** that enable **cross-institutional collaboration** and **hands-on cloud computing** education.

Employed by multinational software development teams for isolated testing and continuous integration across **diverse operating systems** in a **flexible cloud environment**.

Implemented by research institutes for **high-performance computing**, empowering **advanced big data analysis** and **AI model training** using GPU-enabled virtual machines.

SERVICE PROVIDER

The Virtual Machines service is provided by the **Poznan Super-computing and Networking Center (PSNC)** and **Nordic Public cloud platform (Safespring)**, which delivers cloud computing resources powered by OpenStack.

As an integral component of the **EOSC Federation**, this service seamlessly integrates with other EOSC services, supporting interoperable, pan-European research infrastructures.

GETTING STARTED

01

Visit: the EOSC EU Node Portal open-science-cloud.ec.europa.eu



02

Authenticate: Go to the User Space and sign in using your institutional credentials, or EU or eIDAS login.

03

Enable & Launch: From your dashboard, locate the Virtual Machines service, click "Get Access," and begin your experiments.

To use the service you must be logged in and affiliated as faculty, employee or staff with eduGAIN or eIDAS credentials



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