



EOSC EU Node Virtual Machines

Scalable cloud computing for reliable
and reproducible results

EOSC EU NODE

open-science-cloud.ec.europa.eu

WHO IS IT FOR

Researchers, EU-Funded Research
Projects, Research Performing
Organisations, Research Infrastructures

EOSC EU Node Virtual Machines

Scalable cloud computing for reliable and reproducible results

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

*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: EOSC EU Node Platform at open-science-cloud.ec.europa.eu



02

Authenticate: Sign in using your institutional credentials, or EU or eIDAS login.

03

Ready to use: 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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HELPDESK**
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DOCUMENTATION
open-science-cloud.ec.europa.eu/services/virtual-machines#documentation



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