

EOSC EU Node Cloud Container Platform

Simplified Kubernetes for scalable research

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 Cloud Container Platform

Simplified Kubernetes for scalable research

The EOSC Cloud Container Platform lets researchers, projects, and institutions run and scale their scientific applications in the cloud using containers; making it easy to launch complex tools without managing infrastructure, all the while supporting flexible, FAIR-aligned research across disciplines.

KEY FEATURES

Harness Kubernetes-based container orchestration

Deploy scalable research applications easily

Get support for custom Docker containers

Access via easy to use web interface

BENEFITS



European-hosted for data sovereignty & trust



Flexibility & portable environments

FAIR

Supports Open Science & FAIR Principles



Easy onboarding & user management



Available via your virtual credits

Cloud-Based Reliability: Built on a Kubernetes-based cloud infrastructure leveraging OKD (the upstream of Red Hat OpenShift), the service supports scalable, secure, and automated container orchestration.

High Availability: Engineered for near-continuous use with automated scaling, resource credit management (credits refreshed every 90 days), and routine maintenance to ensure consistent performance.

Real-Time Updates: Deployments, scaling, and resource monitoring are managed in real time to optimise application performance.



USE CASES

Used by an EU-funded environmental project for containerised deployment of real-time weather simulation models across six countries.

Adopted by universities in widening countries to enable hands-on Kubernetes training and cross-institutional research collaboration.

Employed by a pan-European AI research consortium to automate scaling of machine learning workloads with GPU acceleration.

Utilised by multinational research centres to orchestrate automated batch processing and real-time analytics using Kubernetes-based workflows.

SERVICE PROVIDER

The Cloud Container Platform is provided by the **Poznan Super-computing and Networking Center (PSNC)** and **Nordic Public cloud platform (Safespring)**, which leverages Kubernetes-based orchestration built on OKD, the upstream project of Red Hat OpenShift.

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 Cloud Container Platform service, select your desired environment size (Small, Medium, or Large) and click "Request Access" to allocate your environment.

Must be affiliated as faculty, employee or staff with eduGAIN or eIDAS credentials.



EOSC EU NODE HELPDESK
open-science-cloud.ec.europa.eu/support/helpdesk



DOCUMENTATION
open-science-cloud.ec.europa.eu/services/cloud-container-platform#documentation



TRAINING RESOURCES
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