European Commission

EOSC EU Node **Cloud Container Platform**

Deploy cloud-native containerised applications that can easily scale.

EOSC EU **NODE**

open-science-cloud.ec.europa.eu

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EOSC EU Node
Cloud Container Platform

Deploy cloud-native containerised applications that can easily scale.

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**
- **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.

WHO IS IT FOR

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

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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 Supercomputing 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: 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 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.

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

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

TRAINING RESOURCES
openplato.eu/eosceunode